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Real Services

Documentation

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OTRS 6 - Admin Manual

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The source code of this document can be found at [github](#), in the repository [doc-admin](#). Contributions are more than welcome. You can also help translating it to your language at [Transifex](#).

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Table of Contents

Utangulizi	xi
1. Utangulizi	1
1. Trouble Ticket Systems - Vya msingi	1
1.1. Trouble ticket system ni nini, na kwanini unaihitaji?	1
1.2. Trouble ticket ni nini?	2
2. OTRS Help Desk	2
2.1. Misingi	2
2.2. Vipengele	2
2.3. Hardware and Software Requirements	8
2.4. Jamii	9
2.5. Huduma za kitaalamu za OTRS	10
2. Usanikishaji	11
1. The Simple Way - Installation of Pre-Built Packages	11
1.1. Kusakinisha RPM katika seva ya Linux ya SUSE	11
1.2. Kusakinisha OTRS katika mifumo endeshi ya Red Hat Enterprise Linux au CentOS system	13
1.3. Kusakinisha OTRS kwenye mfumo wa Debian au Ubuntu	17
2. Installation From Source (Linux, Unix)	17
3. Using the Web Installer	22
4. OTRS on Windows	27
4.1. How to migrate existing Windows installations to Linux	27
5. Upgrading OTRS from 4 to 5	38
6. Additional Applications	44
6.1. Maswali yanasoulizwa mara kwa mara	45
3. First Steps	46
1. Agent Web Interface	46
2. Customer Web Interface	46
3. Public Web Interface	47
4. First Login	48
5. The Web Interface - an Overview	48
6. Dashibodi	50
7. What is a Queue?	56
8. What is the Queue Overview?	57
9. User Preferences	58
4. Utawala	60
1. The Administration Area of OTRS	60
1.1. Misingi	60
1.2. Mawakala, Makundi na Majukumu	60
1.3. Wateja na Makundi ya Wateja	67
1.4. Foleni	70
1.5. Salutations, Signatures, Attachments and Templates	71
1.6. Majibu ya otomatiki	77
1.7. System Email Addresses	78
1.8. Ticket Notifications	79
1.9. S/MIME	82
1.10. PGP	83
1.11. Hali	83
1.12. SysConfig	84
1.13. Using Mail Accounts	84
1.14. Filtering Incoming Email Messages	85
1.15. Executing Automated Jobs with the GenericAgent	88
1.16. Administrative Messages	89
1.17. Usimamizi wa kipindi	89
1.18. Matengenezo ya mfumo	90
1.19. Batli ya mfumo	91

1.20. SQL Queries via the SQL Box	92
1.21. Msimaizi wa kifurushi	92
1.22. Huduma za Tovuti	93
1.23. Sehemu zinazobadilika	93
2. Usanidi wa Mfumo	94
2.1. Mafaili ua usanidi wa OTRS	94
2.2. Configuring the System Through the Web Interface	94
3. Backing Up the System	95
3.1. Chelezo	95
3.2. Rejesha	96
4. Mipangilio ya barua pepe	96
4.1. Sending/Receiving Emails	96
4.2. Secure Email with PGP	102
4.3. Secure Email with S/MIME	104
5. Using External backends	107
5.1. Customer Data	107
5.2. Customer User Backend	108
5.3. Backends to Authenticate Agents and Customers	115
5.4. Customizing the Customer Self-Registration	119
6. Mipangilio ya tiketi	122
6.1. Hali za Tiketi	122
6.2. Ticket Priorities	125
6.3. Jukumu la Tiketi & Kuangalia Tiketi	125
7. Date and Time Related Functions	128
7.1. Kuseti masaa, sikuku na majira ya biashara	128
7.2. Ufunguaji Otomatiki	129
8. Customizing the PDF Output	129
9. Takwimu	130
9.1. Statistics Configuration and Usage	130
9.2. Statistics System Administration	135
10. Sehemu zinazobadilika	136
10.1. Utangulizi	136
10.2. Usanidi	136
11. Kiolesura cha Ujumla	152
11.1. Matabaka ya Kiolesura cha Ujumla	152
11.2. Mtiririko wa Mawasiliano ya Kiolesura cha Ujumla	154
11.3. Huduma za Tovuti	157
11.4. Kiolesura Michoro cha Huduma za Tovuti	158
11.5. Kiolesura cha Tungo Amri cha Huduma ya Tovuti.	176
11.6. Usanidi wa Huduma za Tovuti	176
11.7. Viunganishi	183
12. The OTRS Daemon	199
12.1. OTRS Daemon Graphical Interface	200
12.2. OTRS Daemon Command Line Interface	201
5. Kugeuza kukufaa	203
1. Orodha Dhibiti Sikivu	203
1.1. Utangulizi	203
1.2. Ufafanuzi	203
1.3. Mifano	204
1.4. Marejeo	209
2. Usimamizi wa mchakato	213
2.1. Utangulizi	213
2.2. Mchakato wa mfano	213
2.3. Kutekeleza mfano	213
2.4. Rejea ya sanidi ya mchakato	239
3. Localization of the OTRS Front End	260
6. Kuboresha Utendaji	261
1. OTRS	261

1.1. ModuliKielelezoTiketi	261
1.2. ModuliHifadhiTiketi	261
1.3. Kuhifadhi Tiketi	262
1.4. Hifadhi muda	263
2. Hifadhidata	263
2.1. MySQL	263
2.2. PostgreSQL	263
3. Seva ya tovuti	264
3.1. Miunganiko ya hifadhidata iliyotengenezwa.	264
3.2. Moduli zilizopakwiwa tayari -startup.pl	264
3.3. Pakia tena moduli za perl zinapo sasishwa kwnye diski	264
3.4. Kuchagua mkakati sahihi	264
3.5. mod_gzip/mod_deflate	264
A. Rasilimali za Ziada	265
B. Configuration Options Reference	267
1. CloudService	267
2. Daemon	268
3. DynamicFields	278
4. Framework	282
5. GenericInterface	391
6. ProcessManagement	400
7. Ticket	408
C. Leseni ya Nyaraka Huru ya GNU	590
0. UTANGULIZI	590
1. UTUMIKAJI NA FASILI	590
2. KUNAKILI BILA KUBADILISHA KITU	591
3. KUNAKILI KATIKA IDADI	591
4. MABADILIKO	592
5. KUJUMUISHA NYARAKA	593
6. MKUSANYIKO WA NYARAKA	594
7. KUJUMUISHA NA KAZI BINAFSI	594
8. TAFSIRI	594
9. USITISHAJI	594
10. MAREKEBISHO YA BAADAYE YA HII LESENI	594
Jinsi ya kutumia hii Leseni kwa ajili ya nyaraka zako	595

List of Figures

2.1. Welcome screen	23
2.2. GNU Affero General Public License	23
2.3. Chaguo la hifadhi data	24
2.4. Database credentials	24
2.5. Database settings	25
2.6. Successful database setup	25
2.7. System settings	26
2.8. Mail configuration	26
2.9. Web installer final screen	27
2.10. Download OTRSCloneDB - screenshot	28
2.11. Install OTRSCloneDB - screenshot	29
2.12. Get target database password - screenshot	31
2.13. Configure OTRSCloneDB SysConfig 1 - screenshot	32
2.14. Configure OTRSCloneDB SysConfig 2 - screenshot	33
2.15. Run OTRSCloneDB script 1 - screenshot	34
2.16. Run OTRSCloneDB script 2 - screenshot	35
2.17. Run OTRSCloneDB script 3 - screenshot	36
3.1. Login screen of the agent interface	46
3.2. Login screen of the customer interface	47
3.3. Kiolesura cha tovuti cha uma	47
3.4. Ombi la neno la siri jipya	48
3.5. Dashboard of the agent interface	49
3.6. Kijachini	50
3.7. Vifaa vya dashibodi	51
3.8. Kifaa cha Matukio ya Kalenda ya Tiketi	53
3.9. Dashboard Settings	55
3.10. Muonekano wa Foleni kwa Mawakala (Chaguo-msingi)	57
3.11. Wakala Foleni Ona kengele zinazoonekana.	57
3.12. Agent's personal preferences	58
3.13. Customer's personal preferences	59
4.1. OTRS Administration Overview Screen	60
4.2. Usimamizi wa wakala	61
4.3. Adding a new agent	61
4.4. Usimamizi wa kundi	62
4.5. Agent <-> group management	62
4.6. Change the groups an agent belongs to	63
4.7. Change the agents that belong to a specific group	63
4.8. Usimamizi wa jukumu	65
4.9. Adding a new role	65
4.10. Change the roles associated with an agent	66
4.11. Change the agents associated with a specific role	66
4.12. Manage roles-groups relations	66
4.13. Change group relations for a role	67
4.14. Change role relations for a group	67
4.15. Usimamizi wa Mteja	68
4.16. Adding a customer	68
4.17. Customer-Group relations management	69
4.18. Badilisha mahusiano ya Makundi kwa Mteja	69
4.19. Badilisha mahusiano ya Mteja kwa Kundi	69
4.20. Usimamizi wa foleni	70
4.21. Adding a new queue	70
4.22. Usimamizi wa Salamu	71
4.23. Adding a new salutation	72
4.24. Signatures management	72
4.25. Adding a new signature	73

4.26. Attachments management	73
4.27. Adding a new attachment	74
4.28. Kuunganisha Viambatanisho kwa Violezo	74
4.29. Badilisha mahusiano ya Kiambatanisho kwa Kiolezo	74
4.30. Badilisha mahusiano ya Kiolezo kwa Kiambatanisho	74
4.31. Template management	75
4.32. Adding a template	76
4.33. Template-Queue relations management	76
4.34. Badilisha mahusiano ya Foleni kwa Kiolezo	76
4.35. Badilisha mahusiano ya Kiolezo kwa Foleni	76
4.36. Auto response management	77
4.37. Adding an auto response	77
4.38. Queue <-> auto response relations management	78
4.39. Change auto response relations for a queue	78
4.40. System email addresses management	79
4.41. Adding a system email address	79
4.42. Ticket notification management	80
4.43. Customizing a notification	80
4.44. Customizing a notification's recipients	81
4.45. Customizing notification methods	82
4.46. S/MIME management	82
4.47. PGP management	83
4.48. State management	83
4.49. Kiolesura michoro cha usanidi wa mfumo (SysConfig)	84
4.50. Usimamizi wa akaunti za barua	85
4.51. PostMaster filter management	85
4.52. Add a PostMaster filter	87
4.53. Orodha ya kazi kwa WakalaWaUjumla	88
4.54. Kutengeneza kazi za WakalaWaUjumla	88
4.55. Admin notification screen	89
4.56. Usimamizi wa kipindi	89
4.57. Maelezo ya kipindi	90
4.58. The system maintenance overview screen with some scheduled periods	90
4.59. The system maintenance edit screen	91
4.60. Batli ya mfumo	91
4.61. Boksi la SQL	92
4.62. Msimaizi wa kifurushi	92
4.63. Kiolesura mchoro cha huduma za tovuti	93
4.64. The dynamic fields overview screen with some dynamic fields	93
4.65. Kiolesura michoro cha usanidi wa mfumo	94
4.66. Kuongeza akaunti ya barua pepe	97
4.67. Changing the Responsibility of a ticket in its zoomed view	126
4.68. Pop-up dialog to change a ticket's responsibility	126
4.69. Subscribing to watching a ticket in its zoomed view	127
4.70. Unsubscribing from watching a ticket in its zoomed view	127
4.71. Watched tickets view	128
4.72. Overview of the standard statistics.	130
4.73. Viewing a specific statistic.	131
4.74. Adding a new statistic, first step.	131
4.75. Adding a new statistic, second step.	132
4.76. Configuring the x-axis of a statistic.	133
4.77. Configuring the y-axis of a statistic.	133
4.78. Configuring the data filter of a statistic.	134
4.79. Configuring the data filter of a statistic.	134
4.80. Statistics import	135
4.81. Skrini ya mapitio ya Sehemu zinazobadilika, wazi	137
4.82. Maongezi ya usanidi wa Nakala ya Sehemu inayobadilika.	139
4.83. Usanidi wa maongezi ya sehemu zinazobadilika za eneo la nakala	140

4.84. Usanidi wa maongezi wa sehemu inayobadilika ya kisansuku tiki	140
4.85. Maongezi ya usanidi wa Kikunjuzi cha Sehemu inayobadilika	142
4.86. Maongezi ya usanidi wa Uteuzi Anuwai wa Sehemu inayobadilika	143
4.87. Maongezi ya usanidi wa Tarehe ya Sehemu inayobadilika	144
4.88. Maongezi ya usanidi wa Tarehe / Muda wa Sehemu inayobadilika	145
4.89. Skrini ya mapitio ya sehemu zinazobadilika iliyojazwa na data za sampuli	145
4.90. Field1 in New Phone Ticket Screen	147
4.91. Field1 in New Phone Ticket Screen as mandatory	147
4.92. Several fields in New Phone Ticket Screen as mandatory	148
4.93. Some deactivated fields in New Phone Ticket Screen as mandatory	149
4.94. Field1 in Ticket Zoom Screen	150
4.95. Field1 in Ticket Overview Small Screen	150
4.96. Field1 in User preferences screen	152
4.97. The graphical interface layers	153
4.98. Web services overview	158
4.99. Web services add	159
4.100. Nakala ya huduma ya tovuti	160
4.101. Web services export	161
4.102. Web services import	162
4.103. Web service history	163
4.104. Futa huduma ya tovuti	163
4.105. Web service debugger	165
4.106. Web services change	166
4.107. Web service provider network transport (HTTP::SOAP)	167
4.108. Web service provider network transport (HTTP::REST)	169
4.109. Web service operation	170
4.110. Web service requester network transport (HTTP::SOAP)	171
4.111. Web service provider network transport (HTTP::REST)	173
4.112. Web service invoker	174
4.113. Web service mapping	176
4.114. Daemon notification	201
4.115. Start Daemon	201
5.1. ACL 100-Example-ACL	205
5.2. ACL 102-Example-ACL	206
5.3. ACL 102-Second-Example-ACL	207
5.4. ACL 103-Third-ACL-Example	208
5.5. ACL 104-Only-Hardware-Services-for-HW-Queues-ACL	208
5.6. ACL 105-Disallow-Process-For-CustomerID	209
5.7. OTRS Admin screen - System Administration	217
5.8. Kitufe cha kutengeneza mchakato mpya	217
5.9. Ongeza mchakato mpya	218
5.10. Tengeneza Kitufe cha Maongezi ya Shughuli kipya	218
5.11. Ongeza Maongezi ya Shughuli mapya	219
5.12. Hariri undani wa uga (Makala)	219
5.13. Tengeneza kitufe kipya cha mpito	222
5.14. Ongeza mpito mpya	222
5.15. Tengeneza kitufe kipya cha vitendo vya mpito	223
5.16. Ongeza vitendo vya mpito mpya	224
5.17. Tengeneza kitufe kipya cha shughuli	225
5.18. Kokota shughuli ya kwanza kwenye turubai	227
5.19. Kokota shughuli ya pili kwenye turubai	227
5.20. Kokota Mapito kwenda kwenye turubai	228
5.21. Unganisha shughuli kwa kutumia Mapito	228
5.22. Vitendo vya mpito vilivyogawiwa	229
5.23. Njia kamili ya mchakato wa kuoda vitabu	231
A.1. Kifaa cha ufwatiliajimakosa	266

List of Tables

4.1. Makundi chaguo-msingi yanayopatikana katika usakinishaji mpya wa OTRS	61
4.2. Rights associated with OTRS groups	63
4.3. Makundi ya ruhusa ya ziada	64
4.4. Events for auto responses	78
4.5. Kazi za vichwa-vya-X-OTRS tofauti	85
4.6. Sehemu zifuatazo zitaongezwa kwenye mfumo:	138
A.1. Mailing Lists	265



List of Examples

4.1. Inapanga barua taka katika foleni maalumu	87
4.2. Routing via Procmail Using otrs.Console.pl	98
4.3. .fetchmailrc	99
4.4. Example jobs for the filter module	
Kernel::System::PostMaster::Filter::Match	99
4.5. Kazi ya mfano kwa moduli ya kuchuja	
Kiini::Mfumo::MkuuWaPosta::Kichujio::CMD	100
4.6. Example job for the filter module	
Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition	100
4.7. Usanidi wa hifadhidata ya mazingira ya nyuma ya mteja	108
4.8. Using Company Tickets with a DB Backend	110
4.9. Usanidi wa LDAP ya mazingira yanyuma ya mteja	111
4.10. Kutumia tiketi za Kampuni na mazingira ya nyuma ya LDAP	112
4.11. Kutumia zaidi ya mazingira ya nyuma ya mteja ya aina moja na OTRS	113
4.12. Thibitisha mawakala katika mazingira ya nyuma ya DB.	115
4.13. Thibitisha mawakala katika mazingira ya nyuma ya LDAP.	115
4.14. Halalisha Wakala kwa kutumia HTTPBasic	117
4.15. Thibitisha mawakala katika mazingira ya nyuma ya Radius.	118
4.16. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya DB	118
4.17. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya LDAP	118
4.18. Uthibitisho wa Mteja kwa kutumia HTTPBasic	119
4.19. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya Radius	119
4.20. Default statistics permission group	133
4.21. Customized statistics permission group	133
4.22. Amilisha Sehemu1 katika Simu Mpya Tiketi Skrini.	146
4.23. Amilisha Sehemu1 katika Simu Mpya Tiketi Skrini kwa ulazima.	147
4.24. Amilisha sehemu mbali mbali katika Simu Mpya Tiketi Skrini.	148
4.25. Lemaza baadhi ya sehemu katika Simu Mpya Tiketi Skrini.	148
4.26. Amilisha Sehemu1 katika Skrini Kuza Tiketi.	149
4.27. Amilisha Sehemu1 katika Mapitio ya Skrini Ndogo za Tiketi.	150
4.28. Amilisha Sehemu1 katika kitendo cha TengenezaTiketi.	151
4.29. Amilisha Sehemu1 katika mapendeleo ya Mtumiaji.	151
4.30. Example to start the OTRS Daemon	201
4.31. Example to list all configured daemons	202
4.32. Example to a summary of all daemon tasks	202
5.1. ACL inayoruhusu uingizwaji kwenye foleni wa tiketi zenye kipaumbele cha tiketi 5.	204
5.2. ACL inaruhusu uingiaji kwenye foleni kwa zile tiketi zenye kipaumbele cha tiketi 5 na zimehifadhiwa kwenye hifadhidata.	205
5.3. ACL ikilemaza ufungaji wa tiketi katika foleni mbichi, na kuficha kitufe cha ku- funga.	206
5.4. Uondoaji wa ACL una hali imefungwa kikamilifu mara zote.	207
5.5. ACL inaonyesha huduma za Vifaa kwa ajili ya tiketi ambazo zinatengenezwa kwenye foleni zinazoanza na "HW"	208
5.6. ACL to restrict a Process in the customer frontend using the CustomerID.	209
5.7. Rejea inayoonyesha mipangilio yote muhimu ya ACLs.	210

Utangulizi

Hiki kitabu kimelewa kutumiwa na Wasimamizi wa OTRS. Pia ni ki rejeo kizuri kwa watumiaji wanya wa OTRS.

Sura zinazofwata zinaelezea usakinishaji, usanidi, na usimamizi wa progwamu ya OTRS. Theluthi moja ya kwanza ya nakala hii inaelezea kazi za muhimu za programu, wakati zinazobakia inafanya kazi kama marejeo ya seti nzima ya parameta zinazoweza kusandiiwa.

Hiki kitabu kinaendelea kuwa kazi iliyo kwenye mwendelezo, ikiwa lengo ni matoleo mapya. Tunahitaji maoni yenu ili kufanya hii nyaraka ya marejeo kuwa ya hali ya juu: ambayo inaweza kutumika, iko sahihi, na kamili. Tafadhali tuandikie kama unakuta kuna kitu hakipo kwenye hiki kitabu, kama vitu havijaelezewa kikamilifu, au kuna makosa ya kiuandishi na kisintaksia. Aina yoyote ya maoni yanathaminiwa na yanatakiwa kuwekwa kwenye mfumo wetu wa kufwatilia makosa katika <http://bugs.otrs.org>. Tunatanguliza shukrani kwa michango yenu.



Chapter 1. Utangulizi

1. Trouble Ticket Systems - Vya msingi

Hii sura inatoa utangulizi wa trouble ticketing systems kwa ufupi, pamoja na maelezo ya maana ya msingi ya trouble ticket. Mfano wa haraka unaeleza faida za kutumia mfumo kama huu.

1.1. Trouble ticket system ni nini, na kwanini unaihitaji?

Mfano ufwatao unaeleza trouble ticket system ni nini, na jinsi gani utafaidika na mfumo huu katika kampuni yako.

Tufikirie kwamba Max ni mtengenezaji wa rekoda za video. Max anapokea meseji nyingi kutoka kwa wateja wakihitaji msaada wa vifaa vyao. Siku nyingine anshindwa kujibu papo hapo au hata kukiri kupokea meseji hizo. Baadhi ya wateja wanakosa uvumilivu na kutuma meseji ile ile kwa mara ya pili. Meseji zote zenye maombi ya usaidizi zinahifadhiwa kwenye kisanduku pokezi kimoja. Maombi hayapangwi, na Max anajibu meseji hizo kwa kutumia programu ya mara kwa mara ya barua pepe.

Kwa kuwa Max hawezi kujibu kwa haraka meseji zote, anasaidiwa na wasanifu Joe na John katika hili. Joe na John wanatumia mfumo huo huo wa barua pepe, wakifikia kisanduku pokezi kile kile. Hawatambui kwamba Max anaweza kupokea maombi mawili kutoka kwa mteja mmoja mwenye hasira. Wakati mwingine wanatoa majibu tofauti kwa ombi moja lililojirudia, mteja anapokea majibu mawili tofauti. Kwa zaidi Max hajui undani wa majibu yao. Pia hajui undani wa matatizo ya wateja na masuluhisho yao, kama matatizo gani yanatokea mara nyingi, au kiasi gani cha muda na pesa anatumia kwenye usaidizi wa wateja.

Katika mkutano, mwenzake akamweleza Max kuhusu mfumo wa trouble ticket na jinsi unavyoweza kutatua matatizo ya Max ya usaidiziwa wa mteja. Baada ya kuangalia taarifa kwenye mtandao, Max akaamua kusanikisha OTRS kwenye kompyuta ambayo inapatikana kwenye tovuti kwa wateja na wafanyakazi wake. Sasa, maombi ya wateja hayatumwi kwenye kisanduku chake binafsi cha barua pepe bali kwenye akaunti ya barua pepe ya OTRS. Mfumo wa tiketi umeunganishwa na kikasha barua hiki na inahifadhi maombi yote kwenye hifadhidata yake. Kwa kila ombi jipya, mfumo unatengeneza jibu kiotomatiki na kulituma kwa mteja ili mteja atambue maombi yake yamepokelewa na atajibiwa hivi karibuni. OTRS inatengeneza kirejeo wazi, nambari ya tiketi, kwa kila ombi moja. Wateja sasa wana furaha kwa sababu maombi ya yanajibiwa na sio lazima kutuma ombi la pili kwa swali lile lile. Max, John na Joe sasa wanaweza kuingia kwenye OTRS na kivinjari tovuti na kujibu maombi. Kwa kuwa mfumo unafunga tiketi iliyojibiwa, hakuna meseji inayojibiwa mara mbili.

Tufikirie kwamba Mr. Smith ametuma ombi kwa kampuni ya Max, na meseji yake inafanyiswa mchakato na OTRS. John anatoa jibu fupi kwa swali lake. Lakini Mr. Smith ana swali linalofuata, ambalo analituma kama jibu kwa barua pepe ya John. Kwa kuwa John ametingwa, Max sasa anajibu meseji ya Mr. Smith. Kipengele cha historia kinamruhusu Max aone mtiririko mzima wa mawasiliano kwenye ombi hili, na anajibu kwa undani zaidi. Mr. Smith hajui kama watoa huduma zaidi ya mmoja wahehusika katika kutatua tatizo lake, na amefurahia maelezo ya majibu ya mwisho ya Max.

Bila shaka, haya ni mapitio mafupi ya viwezekanavyo na vipengele vya mfumo wa trouble ticket. Lakini kama kampuni yako inabidi ihudumie maombi mengi kutoka kwa wateja

kupitia barua pepe na simu, na kama watoa huduma tofauti inabidi wajibu kwa muda tofauti, tiketi itakuwa na usaidizi mkubwa. Inaweza kusaidia kurahisisha mtiririko wa kazi, kuongeza ufanisi, na kuboresha utendaji kwa ujumla. Mfumo wa tiketi unasaidia kutengeneza muundo rahisi wa mazingira ya usaidizi au meza ya usaidizi. Mawasiliano kati ya wateja na watoa huduma yanakuwa wazi zaidi. Matokeo ya mwisho ni ufanisi wa huduma. Na bila shaka, wateja walioridhika watabadilika kuwa matokeo mazuri ya biashara ya kampuni yako.

1.2. Trouble ticket ni nini?

Trouble ticket ni sawa na ripoti ya matibabu iliyotengenezwa kwa ajili ya mgonjwa. Mgonjwa akienda hospitali kwa mara ya kwanza, ripoti ya matibabu itatengenezwa kushikilia taarifa zote binafsi na za matibabu zinazomhusu. Baada ya kuhudhuria mara nyingi, na kuhudumiwa na daktari yule yule au wengine, daktari husika anasasisha ripoti kwa kuongeza taarifa mpya za mgonjwa na matibabu yanayoendelea. Hii inawezesha madaktari wengine na manesi kuweza kupata picha nzima ya kesi ya mgonjwa waliokuwa nayo. Mgonjwa akipona na kuruhusiwa kutoka hospitalini, taarifa zote za mgonjwa zinahifadhiwa kwenye nyaraka na ripoti inafungwa.

Mifumo ya trouble ticket kama OTRS inashughulikia trouble tickets kama barua pepe za kawaida. Ujumbe unahifadhiwa kwenye mfumo. Mteja akituma ombi, tiketi mpya inatengenezwa na mfumo ambayo ni sawa na ripoti ya matibabu inayotengenezwa. Majibu kwa hii tiketi mpya ni sawa na ingizo la daktari kwenye ripoti ya matibabu. Tiketi inafungwa kama majibu yametumwa kwa mteja, au kama tiketi imefungwa na mfumo. Kama mteja akijibu tena tiketi iliyofungwa, tiketi itafunguliwa tena na taarifa mpya zitaongezwa. Kila tiketi inahifadhiwa na taarifa kamili. Kwa kuwa tiketi zinashughulikiwa kama barua pepe za kawaida, viambatanisho na maoni ya muktadha pia yatahifadhiwa na kila barua pepe. Na pia taarifa za tarehe husika, wafanyakazi husika, muda wa kazi unaohitajika kushughulikia tiketi, na kadhalika vinahifadhiwa. Katika ngazi yoyote ya baadaye tiketi zinaweza kupangwa na inawezekana kutafuta na kuchambua taarifa zote kwa kutumia taratibu mbali mbali za uchujaji.

2. OTRS Help Desk

Hii sura inaelezea vipengele vya OTRS Help Desk (OTRS) Utapata taarifa kuhusu mahitaji ya programu na vifaa kwa ajili ya OTRS. Kwa zaidi katika sura hii utajifunza jinsi ya kupata usaidizi wa ki biashara kwa OTRS, ukihitaji, na jinsi ya kuwasiliana na jamii.

2.1. Misingi

OTRS Help Desk (OTRS) ni programu tumizi ya wavuti ambayo inasakinishwa katika seva ya wavuti na inaweza kutumika na kivinjari wavuti.

OTRS imegawanywa katika vijenzi tofauti. Kijenzi kikuu ni kiunzi cha OTRS ambacho kina kazi kuu zote za mfumo wa tiketi na programu-tumizi. Inawezekana kusakinisha programu-tumizi za ziada kama moduli za OTRS::ITSM, ushirikiano na ufumbuzi wa Ufuatiliaji wa Mtandao, msingi wa maarifa (Maswali yanayoulizwa mara kwa mara), na kadhalika.

2.2. Vipengele

OTRS ina vipengele vingi. Orodha ifwatayo inatoa mapitio ya vipengele muhim vilivyopo katika kiunzi cha OTRS.

2.2.1. User Interface

- OTRS inakuja na wavuti za kiolesura mpya na tofauti kwa ajili ya wakala na wateja.

- Inaweza kutumika katika kivinjari wavuti kipyua, ikijumuisha utayari wa retina na jukwaa jongevu.
- Kiolesura cha wavuti kinaweza kugeuzwa kukufaa kwa dhima na dhamira zako
- Dashibodi ya wakala ina nguvu na uwezo wa kugeuzwa kukufaa pia ina mapitio ya tiketi zako na usaidizi wa takwimu za michoro.
- Injini panufu ya ripoti inatoa takwimu tofauti tofauti na chaguo la kuratibu ripori.
- Kwa kutumia MchakatoUsimamizi inawezekana kufafanua skrini za tiketi zako na michakato (tiketi za mtiririko wa kazi)
- OTRS ina usimamizi wa haki za ndani ambayo inaweza kupanuliwa na orodha dhibiti ufikivu (ACLs) zilizo hakikiwa.
- Ina msaada kwa zaidi ya lugha 30 na majira tofauti ya saa.

2.2.2. Email Interface

- Ina usaidizi wa barua pepe za MIME pamoja na viambatanishi.
- Ina geuzi ki otomatiki HTML kwa ujumbe wa matini ghafi (ulinzi ulioongezeka kwa maudhui nyeti na inawezesha utafutaji wa haraka)
- Barua pepe zinazolingia zinachujwa na kufanyiwa mchakato na sheria ngumu, mfano kwa barua taka au ugawanyaji wa foleni.
- Msaada kwa viwango vya PGP na S/MIME kwa ajili ya usimamizi wa ufunguo/hati na uchakatishaji wa barua pepe.
- Majibu otomatiki, yana sanidika kwa kila foleni.
- Taarifa za barua pepe kwa wakala kuhusu tiketi mpya, vinavyofwatia au tiketi zilizo-fungiwa.
- Inawezekana kufafanua kitambulishi cha tiketi yako ili kutambua vinavyofuata, mfano. Piga#, Tiketi# au Ombi#. Kuna vizalisha tiketi namba vingi (vyenye msingi wa tarehe, nasibu na kadh.) Unaweza kuongeza yakwapa pia. Vinavyofwatia vinaweza kujulikana kwa kurejea kwenye vichwa au tiketi namba za nje.

2.2.3. Tiketi

- OTRS inatumia tiketi kukusanya mawasiliano yote ya nje na ndani yanayokaa pamoja. Hizi tiketi zinapangwa kwa foleni.
- Kuna njia nyingi za kuangalia tiketi kwenye mfumo (kwa kutegemea Foleni, Hali, Kupanda ma kadh.) katika ngazi tofauti za undani (ndogo/kati/kuhakiki).
- Historia ya tiketi inarekodi mabadiliko yote kwa tiketi.
- Tiketi zinaweza kubadilishwa kwa njia tofauti, kama kujibu, kutuma mbele, kudunda, kuhamia kwenye foleni nyingine, sasisha sifa (hali, umuhimu na kadh.), kufunga na uhasibu wa muda wa kazi. Inawezekana kubadilisha tiketi nyingi kwa mkupuo (vitendo vya mkupuo).
- Muda wa kusubiri na muda wa kupanda / usimamizi wa SLA unaruhusu ratiba na viziuzi vinavyotegemea muda.
- Tiketi zinaweza kuunganishwa na tiketi nyingine au vitu vingine mfano maswali yanayoulizwa mara kwa mara.
- Vitendo otomatiki na vya muda kwa tiketi vinawezekana na "WakalaWaKawaida"

- OTRS inakuja na injini tafuti yenye nguvu ambayo inaruhusu utafutaji tata na wa nakala kamili kwa tiketi.

2.2.4. Mfumo

- OTRS runs on many operating systems (Linux, Solaris, AIX, FreeBSD, OpenBSD, Mac OS 10.x) and supports several database systems for the central OTRS back-end (MySQL, PostgreSQL, Oracle, MSSQL).
- Kiini cha mfumo kinaweza kupanuliwa kwa ku sakinisha vifurushi vya OTRS. Kuna vifurushi vingi vya bure (mfano FAQ, OTRS::ITSM na vingine) na pia vifurushi vya FeatureAdd-on kwa wateja wenye mkataba wa huduma kutoka kundi la OTRS.
- Uunganishaji wa mazingira ya nyuma ya nje kwa ajili ya data za mteja, mf. kupitia AD, eDirectory au OpenLDAP. Wateja wanaweza kujithibitisha kupitia hifadhidata, LDAP, HTTPAuth au Radius.
- Kwa kiolesura cha ujumla ni rahisi kuunganisha OTRS na huduma nyingine za tovuti. Huduma rahisi za tovuti zinaweza kuunganishwa bila kuunda programu, mazingira changamano na viendelezi vya kawaida. Kiunganishi cha tiketi cha OTRS kinaruhusu utengenezaji, usasishaji na utafutaji wa tiketi, kupitia huduma za tovuti kutoka kwenye programu tumizi nyingine kuacha mbili zinazohusika.

Sasa tuangalie mabadiliko katika matoleo ya hivi karibuni ya OTRS.

2.2.5. New Features of OTRS 5

2.2.5.1. Uzalishaji

- OTRS is now optimized for use on different types and sizes of mobile devices.
- Single-select and multi-select input fields have been modernized and provide advanced searching and filtering capabilities (thanks to Dusan Vuckovic at Mühlbauer).
- Images can now be added/uploaded to the WYSIWYG editor using Copy&Paste and Drag&Drop from anywhere outside the application (in all browsers, without additional Add-On).
- Improved ticket notification system. It is now possible to configure own ticket notifications with own trigger conditions and recipients. With OTRS Business Solution™, notifications can also be delivered via SMS and/or Notification Web View. The latter is a special screen in OTRS that holds all notifications of the agent; with this OTRS can be used entirely without an email client.
- Statistics received a new graphical user interface which is much better accessible and helps to create great statistics quickly and easily.
- Additionally, statistics support the new time periods “quarter” and “half-year”
- It is now possible to group action menu items in the ticket zoom screen. Less often used items can be grouped in a submenu, improving screen usage and clarity.
- Ticket overviews can now display customer company data, thanks to Renée Bäcker.
- The ticket process TransitionAction “TicketCreate” can now create tickets without articles.

2.2.5.2. Scalability & Performance

- The new OTRS Daemon handles all asynchronous and periodic tasks and replaces all previous OTRS cron jobs. In a clustered environment the load is automatically distributed over the nodes.

- It is now possible to specify multiple readonly mirror (slave) databases for expensive computations such as statistics or fulltext searches to distribute the load among these database servers.

2.2.5.3. Security

- A new two-factor authentication layer allows added login security.
- If entering a fixed username and password doesn't satisfy your requirements, you can now additionally use the open standard for time based one-time passwords ([RFC 6238](#), also known as Google Authenticator).
- After having enabled the two-factor authentication, agents and customers can add a shared secret to their preferences and immediately start logging in using one-time passwords created by a compatible method of their choice (e.g. the Android Google Authenticator app).

2.2.5.4. Working with External Systems

- A new XSLT based GenericInterface mapping module allows for arbitrarily complex user-defined data mapping.

2.2.5.5. Usanikishaji & Usimamizi

- The new OTRS console makes working on the commandline easy and fun. All commands have a consistent interface, useful documentation and provide helpful colored output.
- Administrators can now specify a minimum log level to reduce logging volume, thanks to Renée Bäcker.
- Overview screens in the admin area now show invalid entities in gray, making it easy to focus on active elements.

2.2.6. New Features of OTRS 4

2.2.6.1. Uzalishaji

- A new cleaner flat design has been implemented.
- Agents can now reply directly to a ticket note. The original notes body is quoted in the new note.
- Agents can now make use of templates in all screens with internal notes.
- Ticket action screens (such as note, owner etc.) now allow to do actions without always creating an article (configurable).
- New ticket overview based on "my services" that an agent can subscribe to. Notification options for new tickets and follow-ups can now be based on "my queues", "my services" or combinations of both.
- OTRS can now display tickets with thousands of articles.
- Customer online list in Dashboard now links directly to CustomerInformationCenter page for the customer.
- Agents can now persistently reorder their main menu with drag&drop.
- Agents and customers can now search tickets by attachment name.

- New Dashboard Widget for running process tickets.
- New search options for the last change time of the ticket.
- Added new screen for outgoing emails on a ticket that are not replies.

2.2.6.2. Scalability & Performance

- OTRS 4 can handle more concurrent users/requests on the same hardware, and response times for single requests are shorter as well, especially for pages with lots of data.

2.2.6.3. Kufanya kazi na mifumo ya nje

- The GenericInterface now also supports HTTP REST as network transport protocol.

2.2.6.4. Usanikishaji & Usimamizi

- Postmaster filters are no longer limited to 4 match/set fields. They can now have a configurable amount of fields (default 12, up to 99).
- A new configuration option Ticket::MergeDynamicFields makes it possible to specify which dynamic fields should also be merged when a ticket is merged to another ticket.
- Added new options to check dynamic fields of type text on patterns relating to error messages (translated), if they do not match.
- Added new options to restrict dynamic fields of type date/datetime on future or past dates.
- OTRS can be configured to automatically unlock a ticket if articles are added and the owner is out of office.
- Linked tickets of a specific type (e.g. merged or removed) can now be hidden via SysConfig option.
- ACL handling has been improved, made more consistent and easier to debug.
 - Added new ACL option PossibleAdd to add items to a possible list without resetting (like Possible does).
 - Added new ACL value modifiers [Not], [NotRegExp], [Notregexp], for all ACLs parts.
- Process handling has been improved, made more consistent and easier to debug.
 - A new GUID-based entity naming scheme for the OTRS Process configuration makes it possible to safely transfer processes from one system to another without duplicating the entities.
 - Added new Transition Action to create a new ticket.
 - Added possibility to define variable Transition Action attributes based on current process ticket values.
- The possibility to schedule System Maintenance periods is available from the System Administration panel in the Admin interface.
 - A notification about an incoming System Maintenance period will be shown with some (configurable) time in advance.
 - If a System Maintenance is active, a notification about it will be shown on the Agent and Customer interface, and only admin users can log on to the system.

- An overview screen informs admins about active sessions, which can be ended all on one click or one by one.
- Added possibility to disable sysconfig import via configuration.
- Added Apache MD5 as a new password hashing backend, thanks to Norihiro Tanaka.
- Added the possibility to restrict customer self registration by email address whitelist or blacklist, thanks to Renée Bäcker.
- Added new dashboard module that shows the output of an external command, thanks to ib.pl.

2.2.6.5. Development

- New powerful template engine based on Template::Toolkit.
- A central object manager makes creating and using global objects much easier (thanks to Moritz Lenz @ noris network).
- The OPM package format was extended to signal that a package has been merged into another package, allowing the package manager to correctly handle this situation on package installation or update.
- Caching was centralized in one global cache object which also performs in-memory caching for all data.
- Added cache benchmark script, thanks to ib.pl.

2.2.7. New Features of OTRS 3.3

2.2.7.1. Uzalishaji

- Dashboard ticket lists and regular ticket overviews can now be filtered by eligible ticket columns, and the shown columns are configurable.
- Chombo cha tiketi na mapitio ya kihakiki sasa yanaweza kupangwa.
- Imeongeza kifaa cha kalenda kwenye dashibodi ambacho kinaonyesha tiketi kama matukio.
- Imeongeza kifaa kwenye dashibodi ambacho kinaonyesha nambari ya tiketi kwa hali na kwa foleni katika mfumo wa matriki.
- Wakala sasa wanaweza kuweka alama kwa makala muhimu.
- Kifaa kipya cha uchaguzi wa mti inafanya ufanyaji kazi na data za mti (foleni, huduma na kadh.) kuwa wa haraka na rahisi.
- Imeongeza usadizi wa kutafuta tarehe zinazoendana (mf. zaidi ya mwezi 1 uliopita) katika sehemu zinazobadilika za Tarehe na Tarehe/Muda.
- Sasa inawezekana kubainisha violezo (awali "majibu ya kawaida") pia kwa utengenezaji wa tiketi mpya na upelekaji mbele tiketi.
- Orodha ya michakato inayopatikana sasa inaweza kuchujwa na ACLs.
- Usaidizi umeongezwa kuanzisha mchakato kutoka kwa kiolesura cha mteja.
- Katika sehemu nyingi nakala hazifupishwi tena kwa idadi maalumu ya herufi ("Foleni1..."), lakini badala yake kwa hali za skrini zilizopo. Hii inawezesha kuona taarifa nyingi zaidi kwa mkupuo.

- OTRS sasa iko tayari kwa Retina. Taswira sasa zinaweza kukabiliana na muonekano wa juu na ikoni za taswira zimebadilishwa na fonti za herufi kutoka webfont ya FontAwesome .
- Kipengele kipya "usimamizi wa dashibodi" kimeongezwa. Hii inawezesha kuonyesha chati za takwimu kwenye dashibodi. Tafadhali tambua IE8 haina msaada kwa kipengele hiki.

2.2.7.2. Kufanya kazi na mifumo ya nje

- OTRS sasa inaweza kutumia hifadhidata nyingi za kampuni za wateja, shukrani kwa Cyrille @ belnet-ict.
- OTRS sasa inaweza kutunza data za mtumiaji katika maeneo yanayobadilika ya tiketi kwa hifadhi ya kudumu katika tiketi. Hii itakuwa na faida katika uarifu.
- OTRS sasa inaweza kuweka barua pepe zinazoingia kwa usahihi chini ya tiketi zilizopo kulingana na nambari ya tiketi kutoka mifumo ya nje.
- OTRS sasa inaweza kutafuta barua pepe kupitia miunganiko ya POP3/TLS.

2.2.7.3. Usanikishaji & Usimamizi

- Kisakinishi cha wavuti sasa kinaweza kuanzisha OTRS katika hifadhidata za Seva za PostgreSQL, Oracle na SQL mbali na MySQL.
- OTRS sasa ina usaidizi kamili wa MySQL 5.6
- Kazi za wakala wa kawaida sasa zinaweza kutekelezwa kwa matukio ya tiketi zilizosandiwa.
- Kihariri kipya cha michoro cha ACL kinafanya uhariri wa ACL kuwa rahisi.
- Vichujio vya mkuu wa posta sasa vinaweza kutumia masharti hasi ya kuchuja, shukrani kwa Renée Bäcker.
- Vichujio vya mkuu wa posta sasa vinaweka bayana tarehe za kusubiri na Mmiliki / Mhusika wa tiketi mpya kwa kutegemea data za barua pepe zinazoingia.
- Nywila za Wateja na Mawakala sasa zinaweza kufanyiwa usimbaji fiche kwa kutumia kanuni imara ya bcrypt, ambayo ni nzuri zaidi ya SHA.
- Icons nyingi sasa kutumia font icon ambayo inafanya rahisi kujenga ngozi desturi na rangi tofauti ya msingi. Hii pia inaboresha utendaji kwa ujumla kupitia ndogo kiasi cha (picha) mafaili kupakia.

2.3. Hardware and Software Requirements

OTRS can be installed on many different operating systems. OTRS can run on linux and on other unix derivatives (e.g. OpenBSD or FreeBSD). OTRS does not have excessive hardware requirements. We recommend using a machine with at least a 2 GHz Xeon or comparable CPU, 2 GB RAM, and a 160 GB hard drive for a small setup.

Kuanzisha OTRS, utahitaji pia kutumia seva ya wavuti na seva ya hifadhidata. Kuachana na hilo, unatakiwa kusakinisha perl na/au kusakinisha baadhi ya moduli za ziada za perl kwenye mashine ya OTRS. Seva ya wavuti na Perl lazima zisakinishwe kwenye mashine sawa na OTRS. Mazingira ya nyuma ya hifadhidata yanaweza kusakinishwa kwa ndani au kwenye mwenyeji mwingine.

Kwa ajili ya seva ya tovuti, tunashauri utumiaji wa Seva ya Apache HTTP, kwasababu moduli yake ya mod_perl inaboresha kwa asilimia kubwa utendaji wa OTRS. Kuachana na hilo,

OTRS inatakiwa kufanya kazi katika seva yoyote ya tovuti ambayo inaweza kutekeleza hati za Perl.

You can deploy OTRS on different databases. You can choose between MySQL, PostgreSQL or Oracle. If you use MySQL or PostgreSQL you have the advantage that the database and some system settings can be configured during the installation, through a web front-end.

For Perl, you will need some additional modules which can be installed either with the Perl shell and CPAN, or via the package manager of your operating system (rpm, yast, apt-get).

Mahitaji ya programu

2.3.1. Usaidizi wa perl

- Perl 5.10 au zaidi

2.3.2. Usaidizi wa seva ya wavuti

- Apache2 + mod_perl2 au zaidi (inapendekezwa)
- Seva ya wavuti yenye usaidizi wa CGI (CGI haipendekezwi)

2.3.3. Usaidizi wa hifadhidata

- MySQL 5.0 au zaidi
- MariaDB
- PostgreSQL 8.4 or higher
- Oracle 10g au zaidi

Hiki kifungu katika mwongozo kuhusu usakinishaji wa moduli za Perl kinaelezea kwa undani jinsi unavyoweza kuanzisha vile vinavyohitajika na OTRS.

If you install a binary package of OTRS, which was built for your operating system (rpm), either the package contains all Perl modules needed or the package manager of your system should take care of the dependencies of the Perl modules needed.

2.3.4. Usaidizi wa kivinjari wavuti

To use OTRS, you'll be OK if you use a modern browser with JavaScript support enabled. These browsers are not supported:

- Internet Explorer before version 10
- Firefox kabla ya toleo la 10
- Safari kabla ya toleo la 5

We recommend keeping your browser up-to-date. JavaScript and rendering performance in newer versions is always improved. Dramatic performance issues can be seen in larger systems when using older versions. We are happy to consult you on that matter.

2.4. Jamii

OTRS has a large user community. Users and developers discuss OTRS and exchange information on related issues through the mailing-lists. You can use the mailing lists to discuss installation, configuration, usage, localization and development of OTRS. You can report software bugs in our bug tracking system.

Kurasa ya nyumbani ya jamii ya OTRS ni: <http://www.otrs.com/open-source/>.

2.5. Huduma za kitaalamu za OTRS

Our **OTRS Business Solution™** offers you best professional support from the OTRS team, reliable OTRS security and regular free updates as well as an **exclusive set of additional Business Features** that you can flexibly activate or deactivate according to different deployment scenarios.

OTRS Group inatoa **programu maalumu za mafunzo** katika nchi tofauti. Unaweza kushiriki katika aidha moja ya mafunzo yetu ya umma ya Msimamizi wa OTRS ambayo hufanyika mara kwa mara, au kufaidika na mafunzo ya ndani ambayo yanapitia mahitaji yote ya kampuni yako.



Chapter 2. Usanikishaji

This chapter describes the installation and basic configuration of the central OTRS framework. It covers information on installing OTRS from source, or with a binary package such as an RPM.

Mada zinazopitiwa hapa zinahusu usanidi wa seva za tovuti na za hifadhidata, kiolesura kati ya OTRS na hifadhidata, usakinishaji wa moduli za ziada za Perl, kuseti haki sawa za ufikivu za OTRS, kuanzisha kazi za mfumo zilizopangwa za OTRS, na baadhi ya mipangilio ya msingi katika mafaili ya usanidi ya OTRS.

Fuata hatua hizi za undani katika sura hii kusakinisha OTRS katika seva yako. Kisha utaweza kutumia kiolesura chake cha tovuti kuingia na kusimamia mfumo.

1. The Simple Way - Installation of Pre-Built Packages

If available for your platform you should use pre-built packages to install OTRS, since it is the simplest and most convenient method. You can find them in the download area at www.otrs.com. The following sections describe the installation of OTRS with a pre-built or binary package on SUSE and Red Hat systems. Only if you are unable to use the pre-built packages for some reason should you follow the manual process.

1.1. Kusakinisha RPM katika seva ya Linux ya SUSE

This section describes the installation of our RPM package on a SUSE Linux server.

1.1.1. Kuandaa hifadhidata kwa ajili ya OTRS

You can use OTRS using different database back-ends: MySQL, PostgreSQL or Oracle. The most popular database to deploy OTRS on is MySQL. This chapter shows the steps you need to take to configure MySQL on a SUSE-based server. Of course you can install the database on a dedicated database server if needed for scalability or other purposes.

Note

Kama ukifwatat sura hii katika openSUSE 12.3 na kuendelea hutaweza kusakinisha MySQL lakini MariaDB badala yake, uma wa MySQL tangamanifu wakanuni za MySQL. Hili sio tatizo, itafanya kazi vizuri tuu (na hata vizuri zaidi wakati mwingine).

Sakinisha MySQL kwa kutekeleza amri ifuatayo kama mzizi:

```
linux:~ # zypper install mysql perl-DBD-mysql
```

This will install MySQL with the default options on your system. You'll need to change the defaults in order to make it suitable for OTRS. With a text editor open the file `/etc/my.cnf` and add following lines under the `[mysqld]` section:

```
max_allowed_packet = 20M
query_cache_size = 32M
innodb_log_file_size = 256M
```

Now execute **systemctl restart mysql.service** to re-start the database server and activate these changes. Then run **/usr/bin/mysql_secure_installation** and follow the on-screen instructions to set a database root password, remove anonymous access and remove the test database. Lastly, run **systemctl enable mysql.service** in order to make sure MySQL is automatically started at server startup time.

1.1.2. Kusakinisha OTRS

Install OTRS with via the command line using **zypper**. This will also pull in some dependencies such as the Apache web server and some Perl modules. Make sure you copied the OTRS RPM file to the current directory.

```
otrs-sles:~ # zypper install otrs*.rpm
....
Retrieving package otrs-x.x.x-01.noarch (1/26), 17.5 MiB (74.3 MiB unpacked)
Installing: otrs-x.x.x-01 [done]
Additional rpm output:
Check OTRS user ... otrs added.

...

otrs-sles:~ #
```

Now restart Apache with the command **systemctl restart apache2.service** to load the configuration changes for OTRS.

1.1.3. Kusakinisha moduli za perl za ziada.

OTRS inahitaji moduli zaidi ya zinazoweza kusakinishwa na RPM. Unaweza kuzisakinisha baadaye kwa mikono. Unaweza kukagua moduli gani hauna kwa kuanzisha hati bin/otrs.CheckModules.pl inayopatikana kwenye mpangilio orodha /opt/otrs. Baadhi ya moduli zinahitajika kwa ajili ya sifa za hiari tu, kama mawasiliano na seva ya(z) IMAP au uzalishaji wa PDF. Kwenye SLES unatakiwa kuongeza hifadhi ya nje kwenye usanidi wa zypper ili kupata moduli zinazohitajika kwa ajili ya mfumo wako. Chagua moduli inayohitajika na toleo lako la mfumo endeshi kutoka hapa: <http://download.opensuse.org/repositories/devel:/languages:/perl/>. Ongeza hifadhi kama hii kwa ajili ya SLES 11 SP2:

```
zypper ar -f -n perl http://download.opensuse.org/repositories/devel:/languages:/perl/SLE_11_SP2 Perl
```

Kwenye openSUSE 12.3 hifadhi ya ziada inahitajika kwa ajili ya moduli Mail::IMAPClient tu, kama utahitaji kama unahitaji kukusanya barua kutoka kwenye seva ya IMAP inayolindwa na TLS. Mstari husika utaonekana kama hivi:

```
zypper ar -f -n perl http://download.opensuse.org/repositories/devel:/languages:/perl/openSUSE_12.3/ Perl
```

Mara ya kwanza unatumia zypper baada ya kuongeza hii hifadhi, utaombwa kuweka ufunguo wake. Sasa unaweza kusakinisha moduli zinazokosekana kama hapa chini.

```
otrs-sles:/opt/otrs # zypper install -y "perl(YAML::LibYAML)"
Refreshing service 'susecloud'.
Retrieving repository 'perl' metadata [\]

New repository or package signing key received:
Key ID: DCCA98DDDDCEF338C
Key Name: devel:languages:perl OBS Project <devel:languages:perl@build.opensuse.org>
Key Fingerprint: 36F0AC0BCA9D8AF2871703C5DCCA98DDDDCEF338C
Key Created: Wed Oct 10 22:04:18 2012
```

```
Key Expires: Fri Dec 19 22:04:18 2014
Repository: perl

Do you want to reject the key, trust temporarily, or trust always? [r/t/a/?] (r): a
Retrieving repository 'perl' metadata [done]
Building repository 'perl' cache [done]
Loading repository data...
Reading installed packages...
'perl(YAML::LibYAML)' not found in package names. Trying capabilities.
Resolving package dependencies...

The following NEW package is going to be installed:
perl-YAML-LibYAML

The following package is not supported by its vendor:
perl-YAML-LibYAML

Retrieving package perl-YAML-LibYAML-0.38-12.4.x86_64 (1/1), 75.0 KiB (196.0 KiB unpacked)
Retrieving: perl-YAML-LibYAML-0.38-12.4.x86_64.rpm [done (55.7 KiB/s)]
Installing: perl-YAML-LibYAML-0.38-12.4 [done]
```

Hatua inayofuata ni kusanidi OTRS kwa kutumia kisaikinishi cha wavuti, kama ilivyoelezewa katika kifungu hiki.

Now you can start the OTRS daemon and activate corresponding watchdog cron job (this must be done by the otrs user):

```
shell> /opt/otrs/bin/otrs.Daemon.pl start
shell> /opt/otrs/bin/Cron.sh start
```

That's it, congratulations!

1.2. Kusakinisha OTRS katika mifumo endeshi ya Red Hat Enterprise Linux au CentOS system

This section describes the installation of our RPM package on a Red Hat Enterprise Linux (RHEL) or CentOS server. For OTRS 3.3 and up, RHEL 6 or CentOS 6 is a requirement, version 5 is not supported.

1.2.1. Kuandaa hifadhidata kwa ajili ya OTRS

You can use OTRS using different database back-ends: MySQL, PostgreSQL or Oracle. The most popular database to deploy OTRS on is MySQL. This chapter shows the steps you need to take to configure MySQL on a RHEL-based server. Of course you can install the database on a dedicated database server if needed for scalability or other purposes.

Sakinisha MySQL kwa kutekeleza amri ifuatayo kama mzizi:

```
[root@otrs-centos6 ~]# yum -y install mysql-server
```

This will install MySQL with the default options on your system. You'll need to change the defaults in order to make it suitable for OTRS. With a text editor open the file `/etc/my.cnf` and add following lines under the `[mysqld]` section:

```
max_allowed_packet = 20M
query_cache_size = 32M
innodb_log_file_size = 256M
```

Now execute **systemctl start mysqld** to re-start the database server and activate these changes. Then run **/usr/bin/mysql_secure_installation** and follow the on-screen instructions to set a database root password, remove anonymous access and remove the test database.

1.2.2. Kusakinisha OTRS

Install OTRS with via the command line using **yum**. This will also pull in some dependencies such as the Apache web server and some Perl modules. Make sure you copied the OTRS RPM file to the current directory.

```
[root@otrs-centos6 ~]# yum install --nogpgcheck otrs-x.x.*.rpm
...
Dependencies Resolved

=====
Package                Arch   Version                Repository              Size
=====
Installing:
otrs                    noarch x.x.x-01                /otrs-x.x.x-01.noarch  74 M
Installing for dependencies:
apr                     x86_64 1.3.9-5.el6_2          updates                 123 k
...
procmail                x86_64 3.22-25.1.el6          base                    163 k

Transaction Summary
=====
Install      26 Package(s)

Total size: 80 M
Total download size: 6.0 M
Installed size: 88 M
Downloading Packages:
(1/25): apr-1.3.9-5.el6_2.x86_64.rpm           | 123 kB   00:00
...
(25/25): procmail-3.22-25.1.el6.x86_64.rpm     | 163 kB   00:00
-----
Total                                           887 kB/s | 6.0 MB   00:06
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : apr-1.3.9-5.el6_2.x86_64        1/26
  ...
  Installing : otrs-x.x.x-01.noarch            26/26
Check OTRS user ... otrs added.

...

[root@otrs-centos6 ~]#
```

Now restart Apache with the command **systemctl restart httpd.service** to load the configuration changes for OTRS.

1.2.3. Kusakinisha moduli za perl za ziada.

OTRS inahitaji baadhi ya moduli zaidi ya zilizosakinishwa na RPM. Unaweza kuzisakinisha baadaye kwa mikono. Unaweza kuona moduli gani unakosa kwa kuanzisha hati bin/otrs.CheckModules.pl iliyopo kwenye mpangilio orodha /opt/otrs. Baadhi ya moduli zinahitajika tu kwa ajili ya sifa za hiari, kama mawasiliano na seva ya (za) IMAP au uzalishaji wa PDF. Kwenye Redhat au CentOS tunashauri kusakinisha hizi moduli kutoka kwenye hifadhi ya EPEL, hifadhi inayodumishwa na mradi wa Fedora, ambayo inatoa vifurushi vya ubora wa juu kwa ajili ya RHEL na vipengele vyake. Kwa taarifa zaidi angalia [tovuti ya EPEL](#).

Kama uko kwenye RHEL 6 au CentOS 6, unaweza kupata kifurushi cha hivi karibuni kutoka [tovuti hii](#). Unaweza kuongeza hii hifadhi kwenye yum moja kwa moja kwa kunakili URL ya RPM utakayoikuta kwenye kurasa hii na kutekeleza hili agizo:

```
[root@otrs-centos6 otrs]# yum -y install http://download.fedoraproject.org/pub/epel/6/i386/epel-release-6-8.noarch.rpm
Loaded plugins: security
Setting up Install Process
epel-release-6-8.noarch.rpm | 14 kB 00:00
Examining /var/tmp/yum-root-7jrJef/epel-release-6-8.noarch.rpm: epel-release-6-8.noarch
Marking /var/tmp/yum-root-7jrJef/epel-release-6-8.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package epel-release.noarch 0:6-8 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
epel-release noarch 6-8 /epel-release-6-8.noarch 22 k
Transaction Summary
=====
Install 1 Package(s)

Total size: 22 k
Installed size: 22 k
Downloading Packages:
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
Installing : epel-release-6-8.noarch 1/1
Verifying : epel-release-6-8.noarch 1/1

Installed:
epel-release.noarch 0:6-8

Complete!
[root@otrs-centos6 otrs]#
```

Mara ya kwanza kutumia yum baada ya kuongeza hifadhi hii, utaombwa kuweka ufunguo wake. Sasa unaweza kusakinisha moduli zinazokosekana kama hapa chini:

```
[root@otrs-centos6 otrs]# yum -y install "perl(Text::CSV_XS)"
Loaded plugins: security
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package perl-Text-CSV_XS.x86_64 0:0.85-1.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
perl-Text-CSV_XS x86_64 0.85-1.el6 epel 71 k
Transaction Summary
=====
Install 1 Package(s)

Total download size: 71 k
```

```
Installed size: 154 k
Downloading Packages:
perl-Text-CSV_XS-0.85-1.el6.x86_64.rpm | 71 kB 00:00
warning: rpmts_HdrFromFdno: Header V3 RSA/SHA256 Signature, key ID 0608b895: NOKEY
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-6
Importing GPG key 0x0608B895:
  Userid : EPEL (6) &lt;epel@fedoraproject.org&gt;
  Package: epel-release-6-8.noarch (@/epel-release-6-8.noarch)
  From : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-6
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : perl-Text-CSV_XS-0.85-1.el6.x86_64 1/1
  Verifying : perl-Text-CSV_XS-0.85-1.el6.x86_64 1/1

Installed:
  perl-Text-CSV_XS.x86_64 0:0.85-1.el6

Complete!
[root@otrs-centos6 otrs]#
```

Hatua inayofuata ni kusanidi OTRS kwa kutumia kisanishi cha wavuti, kama ilivyoeleze-wa katika kifungu hiki.

Now you can start the OTRS daemon and activate corresponding watchdog cron job (this must be done by the otrs user):

```
shell> /opt/otrs/bin/otrs.Daemon.pl start
shell> /opt/otrs/bin/Cron.sh start
```

That's it, congratulations!

1.2.4. Usakinishaji wa kiendeshi cha hifadhidata ya Oracle kwenye Red Hat / CentOS

Kama unataka kutumia OTRS kwenye hifadhidata Oracle, utahitaji kukusanya-zalisha na kusanisha kiendeshi cha hifadhidata DBD::Oracle. Hii ni ngumu kidogo kusanisha zaidi ya vifurushi vingine; hii ni kwasababu Oracle ni hifadhidata inayomilikiwa kibinafsi na si mradi wa Red Hat wala Centos unaruhusiwa kusambaza viendeshi katika hifadhi zao za RPM.

Kwanza kabisa tutahitaji kusanisha gcc, make na CPAN ili tuweze kukusanya-zalisha na kusanisha kiendeshi. Chini unaona amri katika CentOS; katika matoleo mengine inaweza kuonekana tofauti kidogo.

```
[root@otrs-centos6 otrs]# yum -y install gcc make "perl(CPAN)"
```

Hatua inayofuata ni kupata na kusanisha programu ya hifadhidata. Kwa hili utahitaji kujiunga kwa ajili ya akaunti ya bure katika tovuti ya Oracle. Unaweza kupakua viendeshi katika ukurasa huu: <http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html> Tafadhali chagua toleo la x86 au x86-64 la Linux kwa kutegemea na muundo wa mfumo wako. Unaweza kukagua hili kwa kutumia **uname -i**. Ni aidha 'x86_64' kwa ajili ya x86-64 au 'i386' kwa ajili ya x86. Unatakiwa kupakua vifurushi 'Instant Client Package - Basic', 'Instant Client Package - SQL*Plus', na 'Instant Client Package - SDK'. Zihifadhi mahali kwenye diski yako. Sasa kama mtumiaji mzizi unaweza kusanisha vifurushi hivyo kwa kutumia amri ifuatayo:

```
[root@otrs-centos6 otrs]# yum install oracle-instantclient*
```

Baada ya hii unatakiwa kuseti vishika nafasi vya mazingira viwili na kusanya-zalisha kien-deshi cha DBD::Oracle. Kwa mara nyingine, fanya kazi hizi kama mtumiaji mzizi. Hatua zimeorodheshwa chini. Tafadhali tambua kwa ajili ya ufupisho baadhi ya mistari iliyotole-wa na amri imeondolewa.

```
[root@otrs-centos6 otrs]# export ORACLE_HOME=/usr/lib/oracle/11.2/client64
[root@otrs-centos6 otrs]# export LD_LIBRARY_PATH=$ORACLE_HOME/lib
[root@otrs-centos6 otrs]# cpan
cpan[1]> look DBD::Oracle
...
Fetching with LWP:
  http://www.perl.org/CPAN/authors/id/P/PY/PYTHIAN/CHECKSUMS
Checksum for /root/.cpan/sources/authors/id/P/PY/PYTHIAN/DBD-Oracle-1.62.tar.gz ok
Scanning cache /root/.cpan/build for sizes
DONE
...
Working directory is /root/.cpan/build/DBD-Oracle-1.62-ZH6LNy
[root@localhost DBD-Oracle-1.62-ZH6LNy]# perl Makefile.PL
...
[root@localhost DBD-Oracle-1.62-ZH6LNy]# make
...
[root@localhost DBD-Oracle-1.62-ZH6LNy]# make install
...
cpan[2]> exit
Terminal does not support GetHistory.
Lockfile removed.
```

Now you should edit the file Kernel/Config.pm to provide ORACLE_HOME. The next step is to configure OTRS using the web installer, as described in this section.

1.3. Kusakinisha OTRS kwenye mfumo wa Debian au Ubuntu

Important

Tafadhali sakinisha OTRS kutoka kwenye chanzo, na usitumie vifurushi vya OTRS ambavyo vinatolewa na Debian/Ubuntu.

The installation of required Perl modules is easier if you use the available packages:

```
apt-get install libapache2-mod-perl2 libdbd-mysql-perl libtimedate-perl libnet-dns-perl
libnet-ldap-perl \
libio-socket-ssl-perl libpdf-api2-perl libdbd-mysql-perl libsoap-lite-perl libtext-csv-
xs-perl \
libjson-xs-perl libapache-dbi-perl libxml-libxml-perl libxml-libxslt-perl libyaml-perl \
libarchive-zip-perl libcrypt-eksblowfish-perl libencode-hanextra-perl libmail-
imapclient-perl \
libtemplate-perl
```

2. Installation From Source (Linux, Unix)

2.1. Step 1: Install .tar.gz

If you want to install OTRS from source, first download the source archive as .tar.gz, .tar.bz2, or .zip file from <http://www.otrs.com/try/>

Pakua nyaraka (kwa mfano, kwa kutumia **tar**) kwenda kwenye mpangilio orodha /opt, na upa mpangilio orodha jina jipya kutoka otrs-x.x.x kuwa otrs (ona Hati chini).

```
shell> tar xzf /tmp/otrs-x.x.x.tar.gz
shell> mv otrs-x.x.x /opt/otrs
```

2.2. Step 2: Install Additional Perl Modules

Use the following script to get an overview of all installed and required CPAN modules.

```
shell> perl /opt/otrs/bin/otrs.CheckModules.pl
o CGI.....ok (v3.60)
o Crypt::PasswdMD5.....ok (v1.3)
o Crypt::SSLeay.....Not installed! (Optional - Required for Generic Interface
SOAP SSL connections.)
o CSS::Minifier.....ok (v0.01)
o Date::Format.....ok (v2.22)
o Date::Pcalc.....ok (v1.2)
...
```

Note

Please note that OTRS requires a working Perl installation with all "core" modules such as the module version. These modules are not explicitly checked by the script. You may need to install a perl-core package on some systems like RHEL that do not install the Perl core packages by default.

To install missing Perl modules, you can:

2.2.1. a) Install the packages via the package manager of your Linux distribution

- For Red Hat, CentOS, Fedora or compatible systems:

```
shell> yum install "perl(Digest::MD5)"
```

- For SUSE Linux Enterprise Server, openSUSE or compatible systems: first determine the name of the package the module is shipped in. Usually the package for My::Module would be called "perl-My-Module".

```
shell> zypper search Digest::MD5
```

Then install:

```
shell> zypper install perl-Digest-MD5
```

- For Debian, Ubuntu or compatible systems first determine the name of the package the module is shipped in. Usually the package for My::Module would be called "libmy-module-perl".

```
shell> apt-cache search Digest::MD5
```

Then install:

```
shell> apt-get install libdigest-md5-perl
```

Please note that it might be that you can't find all modules or their required versions in your distribution repository, in that case you might choose to install those modules via CPAN (see below).

2.2.2. b) Install the required modules via the CPAN shell

Note that when you're on Linux you should run CPAN as your superuser account because the modules should be accessible both by the OTRS account and the account under which the web server is running.

```
shell> perl -MCPAN -e shell;
...
install Digest::MD5
install Crypt::PasswdMD5
...
```

Any optional modules listed by the script should be installed depending on the special requirements of the target system.

2.3. Step 3: Create OTRS User

Create user:

```
shell> useradd -d /opt/otrs/ -c 'OTRS user' otrs
```

Add user to webserver group (if the webserver is not running as the OTRS user):

```
shell> usermod -G www otrs
(SUSE=www, Red Hat/CentOS/Fedora=apache, Debian/Ubuntu=www-data)
```

2.4. Step 4: Activate Default Config Files

There are two OTRS config files bundled in `$OTRS_HOME/Kernel/*.dist` and `$OTRS_HOME/Kernel/Config/*.dist`. You must activate them by copying them without the ".dist" filename extension.

```
shell> cd /opt/otrs/
shell> cp Kernel/Config.pm.dist Kernel/Config.pm
```

2.5. Step 5: Check if all needed modules are installed

```
shell> perl -cw /opt/otrs/bin/cgi-bin/index.pl
```

```
/opt/otrs/bin/cgi-bin/index.pl syntax OK

shell> perl -cw /opt/otrs/bin/cgi-bin/customer.pl
/opt/otrs/bin/cgi-bin/customer.pl syntax OK

shell> perl -cw /opt/otrs/bin/otrs.Console.pl
/opt/otrs/bin/otrs.Console.pl syntax OK
```

"syntax OK" tells you all mandatory Perl modules are installed.

2.6. Step 6: Configuring the Apache web server

First of all, you should install the Apache2 web server and mod_perl; you'd typically do this from your systems package manager. Below you'll find the commands needed to set up Apache on the most popular Linux distributions.

```
# rhel / centos:
shell> yum install httpd mod_perl

# suse:
shell> zypper install apache2-mod_perl

# debian/ubuntu:
shell> apt-get install apache2 libapache2-mod-perl2
```

Most Apache installations have a conf.d directory included. On Linux systems you can usually find this directory under /etc/apache or /etc/apache2. Log in as root, change to the conf.d directory and link the appropriate template in /opt/otrs/scripts/apache2-httpd.include.conf to a file called zzz_otrs.conf in the Apache configuration directory (to make sure it is loaded after the other configurations).

OTRS requires a few Apache modules to be active for optimal operation. On most platforms you can make sure they are active via the tool a2enmod.

```
shell> a2enmod perl
shell> a2enmod version
shell> a2enmod deflate
shell> a2enmod filter
shell> a2enmod headers
```

Now you can restart your web server to load the new configuration settings. On most systems you can do that with the command **systemctl restart apache2.service**.

2.7. Step 7: File Permissions

File permissions need to be adjusted to allow OTRS to read and write files:

```
otrs.SetPermissions.pl [ --otrs-user= OTRS user, defaults to 'otrs' ] { --web-group= group
of the web server user }
```

For example:

- Web server which runs as the OTRS user:

```
shell> bin/otrs.SetPermissions.pl --web-user=otrs
```

- Webserver with wwwrun user (e. g. SUSE):

```
shell> bin/otrs.SetPermissions.pl --web-group=wwwrun
```

- Webserver with apache user (e. g. Red Hat, CentOS):

```
shell> bin/otrs.SetPermissions.pl --web-group=apache
```

- Webserver with www-data user (e. g. Debian, Ubuntu):

```
shell> bin/otrs.SetPermissions.pl --web-group=www-data
```

2.8. Step 8: Database Setup and Basic System Configuration

Please use the web installer at <http://yourhost/otrs/installer.pl> (replace "yourhost" with your OTRS hostname) to setup your database and basic system settings such as email accounts.

Note

The following configuration settings are recommended for MySQL setups. Please add the following lines to `/etc/my.cnf` under the `[mysqld]` section:

```
max_allowed_packet = 20M
query_cache_size = 32M
innodb_log_file_size = 256M
```

2.9. Step 9: First login

Now you are ready to login to your system at <http://yourhost/otrs/index.pl> with the credentials you configured in the web installer (User: root@localhost).

With this step, the basic system setup is finished.

2.10. Step 10: Start the OTRS Daemon

The new OTRS daemon is responsible for handling any asynchronous and recurring tasks in OTRS. What has been in cron file definitions previously is now handled by the OTRS daemon, which is now required to operate OTRS. The daemon also handles all GenericAgent jobs and must be started from the `otrs` user.

```
shell> /opt/otrs/bin/otrs.Daemon.pl start
```

2.11. Step 11: Cron jobs for the OTRS user

There are two default OTRS cron files in `/opt/otrs/var/cron/*.dist`, and their purpose is to make sure that the OTRS Daemon is running. They need to be activated by copying them without the ".dist" filename extension.

```
shell> cd /opt/otrs/var/cron
shell> for foo in *.dist; do cp $foo `basename $foo .dist`; done
```

To schedule these cron jobs on your system, you can use the script `Cron.sh` with the `otrs` user.

```
shell> /opt/otrs/bin/Cron.sh start
```

Stopping the cron jobs is also possible (useful for maintenance):

```
shell> /opt/otrs/bin/Cron.sh stop
```

2.12. Step 12: Setup bash autocompletion (optional)

All regular OTRS commandline operations happen via the `otrs Console` interface `bin/otrs.Console.pl`. This provides an auto completion for the bash shell which makes finding the right command and options much easier.

You can activate the bash autocompletion by installing the package `bash-completion`. It will automatically detect and load the file `/opt/otrs/.bash_completion` for the `otrs` user.

After restarting your shell, you can just type `bin/otrs.Console.pl` followed by `TAB`, and it will list all available commands. If you type a few characters of the command name, `TAB` will show all matching commands. After typing a complete command, all possible options and arguments will be shown by pressing `TAB`.

2.13. Step 13: Further Information

We advise you to read the OTRS performance tuning chapter.

If you encounter problems with the installation, you can send a message to our mailing list `otrs@otrs.org` (<http://lists.otrs.org/>).

You can also ask the OTRS Group to either help you in planning or deploying OTRS, or review your installed OTRS system. Our [professional services](#) are designed to help you deploy OTRS faster and to get the most benefit out of OTRS.

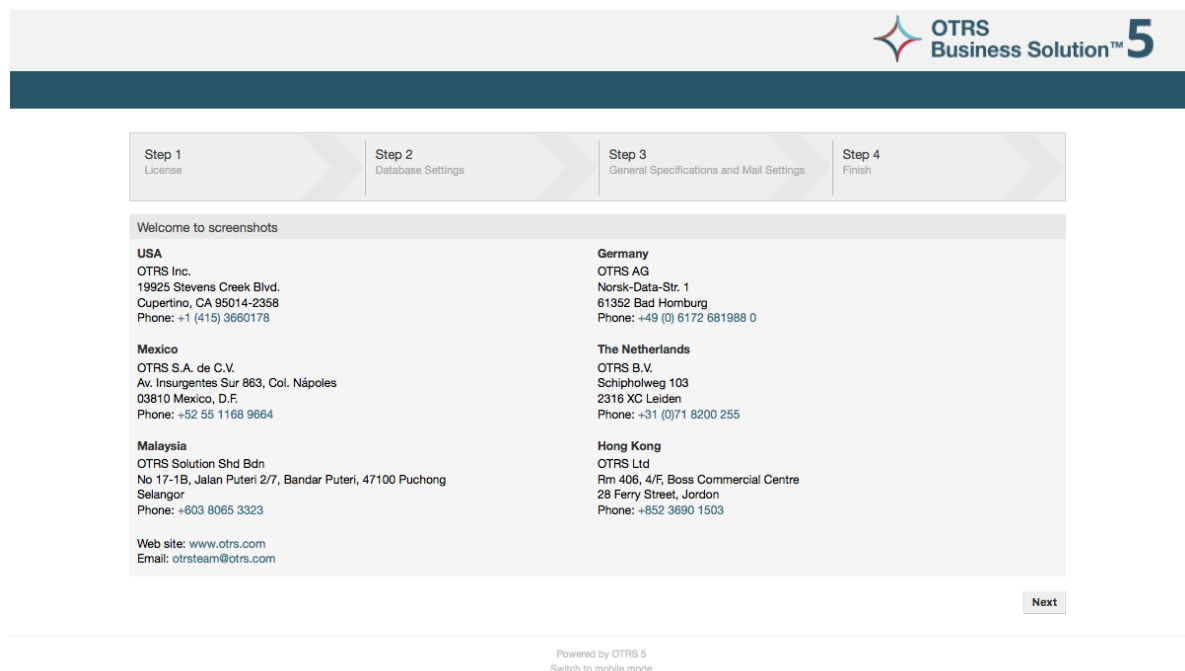
3. Using the Web Installer

Unaweza kutumia Kisakinishi cha Wavuti cha OTRS, baada ya kusakinisha programu ya OTRS, kuseti na kusanidi hifadhidata ya OTRS. Kisakinishi cha Wavuti ni ukurasa wa tovuti ambayo unaweza kuitembelea kwenye kivinjari chako. URL ya hicho kisakinishi cha wavuti ni <http://localhost/otrs/installer.pl>.

Pale kisakinishi cha wavuti kinapoanza, tafadhali fuata hatua zifuatazo kuseti mfumo wako:

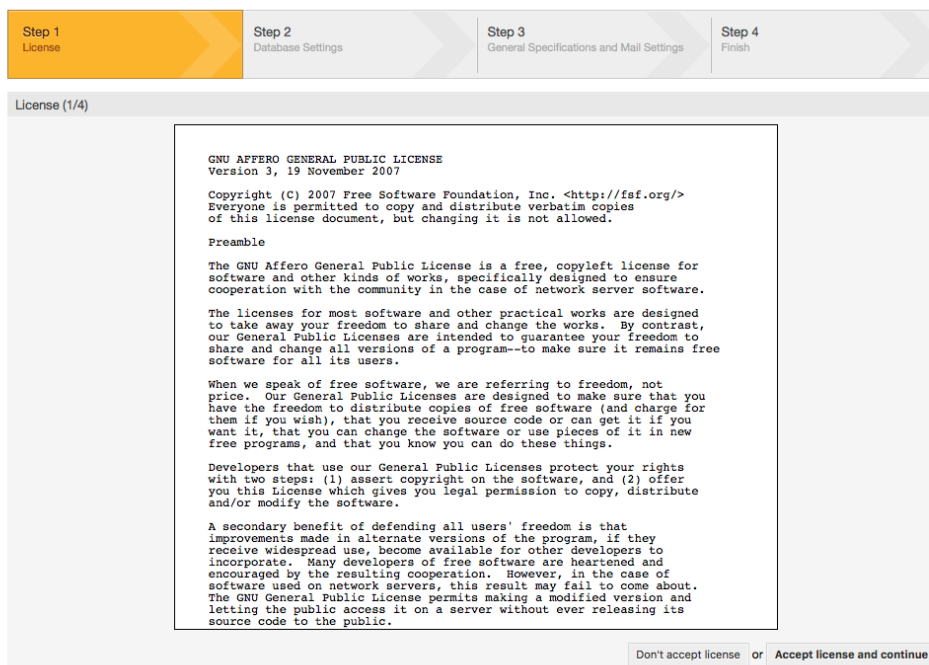
1. Check out the information about the OTRS offices and click on 'Next' to continue (see figure below).

Figure 2.1. Welcome screen



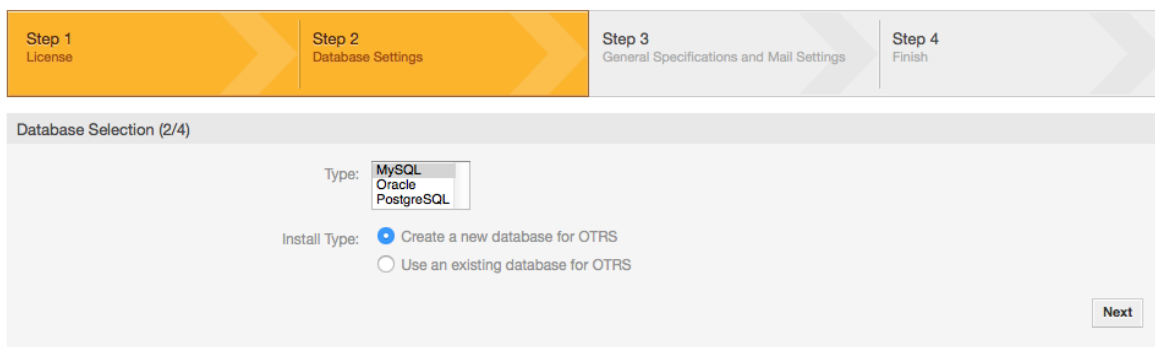
2. Read the GNU Affero General Public License (see figure below) and accept it, by clicking the corresponding button at the bottom of the page.

Figure 2.2. GNU Affero General Public License



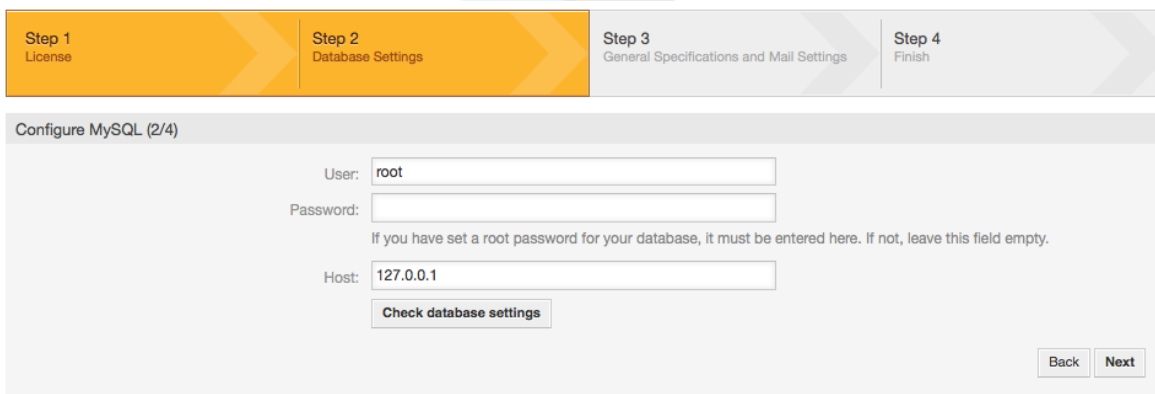
3. Choose the database that you want to use with OTRS. If you choose MySQL or PostgreSQL as a database, you can also select here if you want the web installer to create a database for you or if your database administrator has already created an empty database for you that you would like to use. After that, click the 'Next' button (see figure below).

Figure 2.3. Chagua la hifadhi data



4. Hii skrini inaweza kuwa tofauti kidogo kutegemeana na hifadhidata uliyochagua na kama ulitaka kisakinishi cha mtandao kutengeneza hifadhidata au kutumia iliyopo katika hatua iliyopita. Ingiza hati tambulishi za hifadhidata kwenye hii skrini.

Figure 2.4. Database credentials



5. Create a new database user, choose a name for the database and click on 'Next' (see figure below).

Warning

OTRS itatengeneza nywila imara kwa ajili yako. Inawezekana kuweka nywila yako mwenyewe kama ukitaka. Nywila itaandikwa kwenye faili la usanidi `Kernel/Config.pm` kwahiyo hakuna haja ya kukumbuka nywila hii.

Figure 2.5. Database settings

Step 1 License | **Step 2 Database Settings** | Step 3 General Specifications and Mail Settings | Step 4 Finish

Configure MySQL (2/4)

User:

Password:

If you have set a root password for your database, it must be entered here. If not, leave this field empty.

Host:

Result of database check
 ✓ Database check successful.

Database User (New)

User:

A new database user with limited permissions will be created for this OTRS system.

Password:

Repeat Password:

Generated password: **K6Ldsuk8vkUV9i43**

Database

Database name:

[Back](#) [Next](#)

6. Hifadhidata itatengenezwa kama itahitajika, na kujazwa, kama ilivyoonyeshwa kwenye hii taswira. Bofya kitufe cha kuendelea kwenda kwenye skrini inayofuata.

Figure 2.6. Successful database setup

Step 1 License | **Step 2 Database Settings** | Step 3 General Specifications and Mail Settings | Step 4 Finish

Create Database (2/4)

- ✓ CREATE DATABASE 'otrs'
- ✓ GRANT ALL PRIVILEGES
- ✓ FLUSH PRIVILEGES
- ✓ Processing otrs-schema
- ✓ Processing otrs-initial_insert
- ✓ Processing post statements

Database setup successful!

[Next](#)

7. Provide all the required system settings and click on 'Next' (see figure below).

Figure 2.7. System settings

Step 1
License
Step 2
Database Settings
Step 3
General Specifications and Mail Settings
Step 4
Finish

System Settings (3/4)

SystemID: The identifier of the system. Each ticket number and each HTTP session ID contain this number.

System FQDN: Fully qualified domain name of your system.

AdminEmail: Email address of the system administrator.

Organization:

Log

LogModule: Log backend to use.

LogFile:

Webfrontend

Default language: Default language.

CheckMXRecord: Email addresses that are manually entered are checked against the MX records found in DNS. Don't use this option if your DNS is slow or does not resolve public addresses.

8. If desired, you can provide the needed data to configure your inbound and outbound mail, or skip this step by pressing the right button at the bottom of the screen (see figure below).

Figure 2.8. Mail configuration

Step 1
License
Step 2
Database Settings
Step 3
General Specifications and Mail Settings
Step 4
Finish

Mail Configuration (3/4)

Configure Outbound Mail

Outbound mail type: Select outbound mail type.

Outbound mail port: Select outbound mail port.

Configure Inbound Mail

Inbound mail type: Select inbound mail type.

Inbound mail host: Inbound mail host.

Inbound mail user: User for inbound mail.

Inbound mail password: Password for inbound mail.

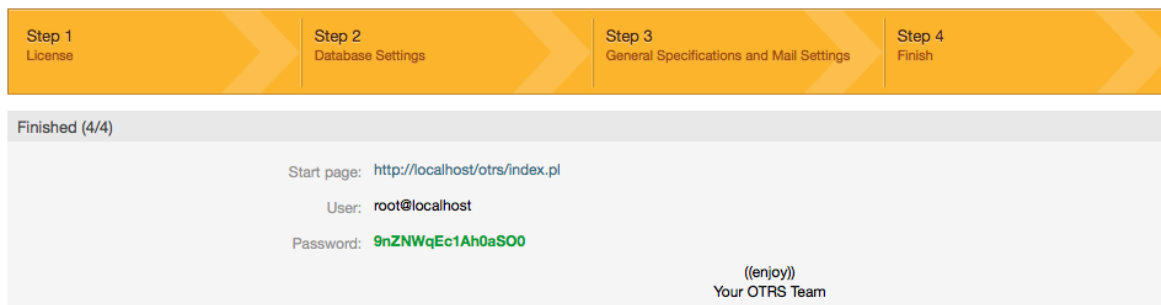
or

9. Congratulations! Now the installation of OTRS is finished and you should be able to work with the system (see figure below). To log into the web interface of OTRS, use the address <http://localhost/otrs/index.pl> from your web browser. Log in as OTRS administrator, using the username 'root@localhost' and the generated password. After that, you can configure the system to meet your needs.

Warning

Tafadhali andika nywila iliyozalishwa kwa ajili ya akaunti ya 'root@localhost'.

Figure 2.9. Web installer final screen



4. OTRS on Windows

OTRS can be run on a wide range of system platforms, including Enterprise Linux Platforms such as Red Hat Enterprise Linux, and SUSE Linux Enterprise Server, as well as a series of other Linux derivatives.

However, when running OTRS on Windows platforms we have encountered repeated performance losses, and despite an exhaustive analysis, it has not been possible to solve these issues to our satisfaction due to technical differences. It is thus with a heavy heart that we have ceased development on our Windows Installer and the OTRS Appliance due to the currently limited availability of necessary third-party components offered by other vendors.

Under these circumstances, we are not able to guarantee the continuing operation of OTRS on Windows platforms, and therefore recommend migrating to one of the Linux platforms mentioned above or recommend using our **OTRS Business Solution™ Managed**.

To make it easier for you to migrate from Windows to Linux and to offer you the best OTRS performance, we have prepared detailed instructions for you here.

4.1. How to migrate existing Windows installations to Linux

4.1.1. Introduction and preparation

If you have a Windows based installation and you would like to change to a Linux based system you will need to setup a Linux server or virtual machine and install OTRS there (see the installation instructions). This will be the target system for the migration.

4.1.2. Get OTRSCloneDB script to clone databases

Please go to the admin menu of the Windows based system and install the newest version of OTRSCloneDB package into your OTRS:

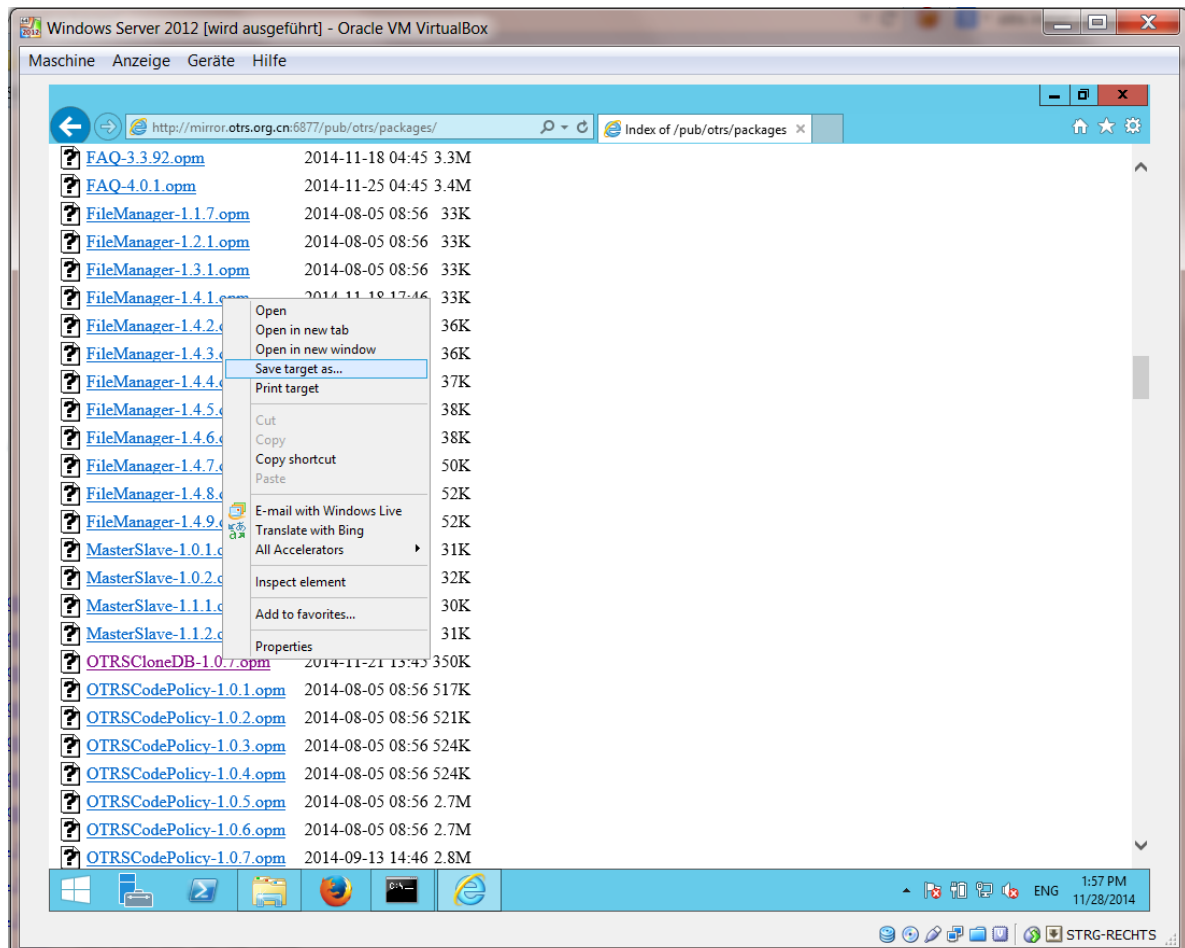
You can install the OTRSCloneDB package directly from the package manager. Select "OTRS Extensions" from the dropdown list on the left and click on the button "Update repository information" below. Then the OTRSCloneDB package will be shown in a list where you can click on "Install".

You could also download the package manually from the OTRS FTP server and install the package manually as described below. <http://ftp.otrs.org/pub/otrs/packages/>

Please download the package with the highest version number:

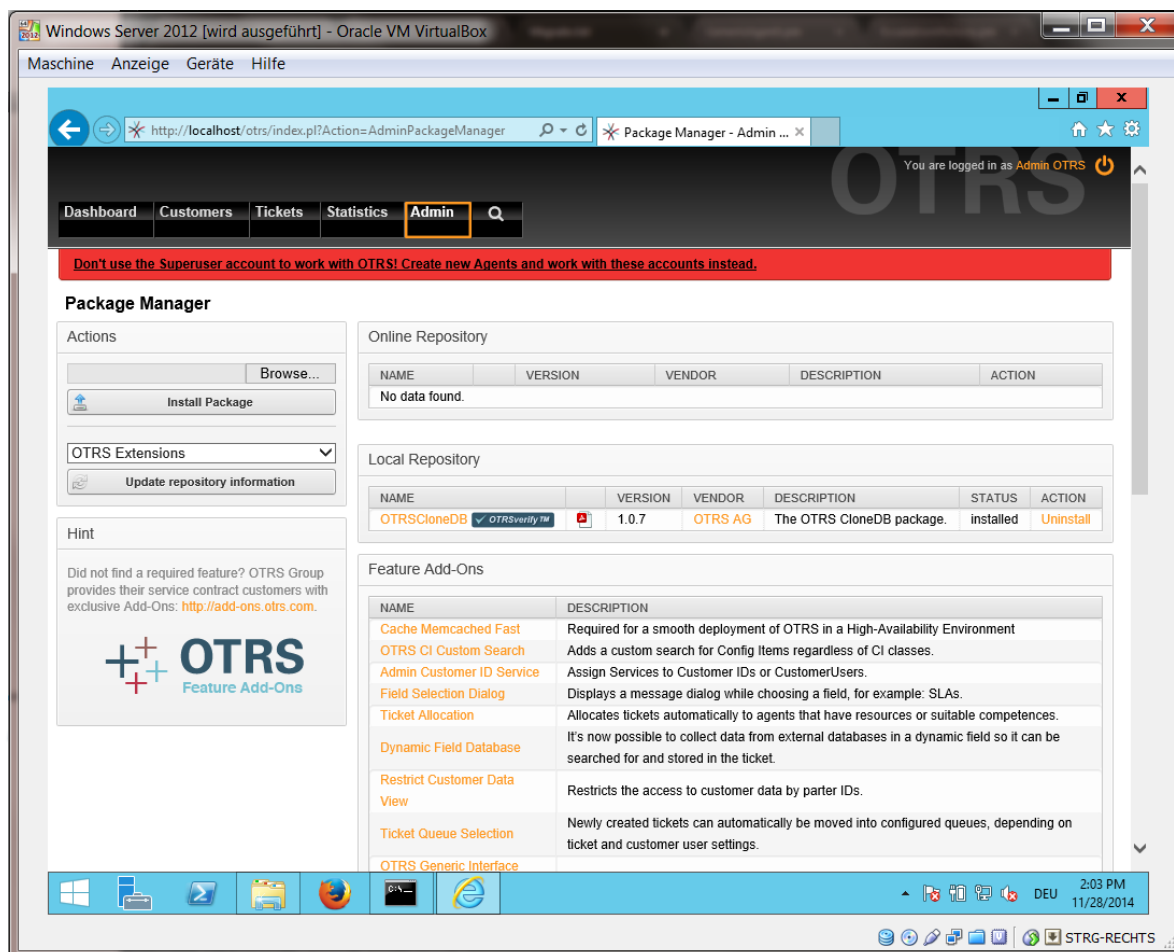
```
OTRSCloneDB-1.0.13.opm
```

Figure 2.10. Download OTRSCloneDB - screenshot



and install it to your Windows based installation:

Figure 2.11. Install OTRSCloneDB - screenshot



It is also no problem if you have installed some additional features or custom developments on your OTRS. You just need to take care that all of your installed packages are also compatible with Unix based systems. For packages provided by OTRS this is the case.

4.1.3. Enable remote access for the PostgreSQL database of target system

The OTRSCloneDB script will copy the database data over the network, so we need to enable remote access to the database. The setup is different for the different databases, we will describe opening remote access for a PostgreSQL database here.

After logging into your target system via SSH you need to change into the postgresql directory:

```
shell> cd /etc/postgresql/9.4/main
shell> vi postgresql.conf
```

Add the following line at the end of the file:

```
listen_addresses = '*'
```

Save the file.

```
shell> vi pg_hba.conf
```

Add the following line at the end of the file:

```
host all all 0.0.0.0/0 md5
```

Save the file.

Restart your PostgreSQL server:

```
shell> service postgresql restart
```

4.1.4. Stop OTRS services

Stop all running services of your target system:

```
shell> service cron stop
shell> service apache2 stop
shell> su - otrs
shell> cd /opt/otrs/
shell> bin/Cron.sh stop
shell> bin/otrs.Daemon.pl -a stop
shell> exit
```

4.1.5. Drop the existing database of your target system to have an empty database for the clone data

The OTRSCloneDB script will not remove the data in the existing otrs database of the target system, so we need to do this manually:

Change the user to the postgresql user:

```
shell> su - postgres
```

Drop the existing otrs database:

```
shell> dropdb otrs
```

Create a new otrs database for the otrs user:

```
shell> createdb --owner=otrs --encoding=utf8 otrs
```

Go back to root user:

```
shell> exit
```

4.1.6. Get the PostgreSQL password of your database

Change into the OTRS directory of your target system:

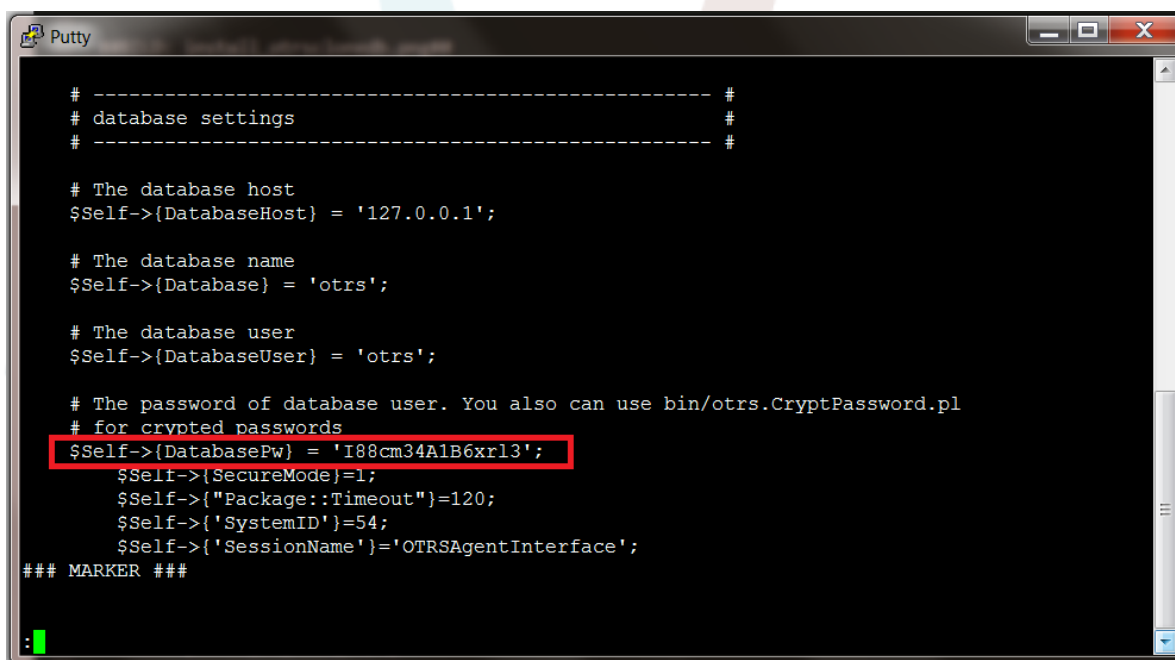
```
shell> cd /opt/otrs
```

and take a look at the configuration file of your target system:

```
shell> less Kernel/Config.pm
```

You will find your database password if you scroll down a bit:

Figure 2.12. Get target database password - screenshot



```
Putty
# ----- #
# database settings #
# ----- #

# The database host
$Self->{DatabaseHost} = '127.0.0.1';

# The database name
$Self->{Database} = 'otrs';

# The database user
$Self->{DatabaseUser} = 'otrs';

# The password of database user. You also can use bin/otrs.CryptPassword.pl
# for crypted passwords
$Self->{DatabasePw} = 'I88cm34A1B6xrl3';
$Self->{SecureMode}=1;
$Self->{"Package::Timeout"}=120;
$Self->{'SystemID'}=54;
$Self->{'SessionName'}='OTRSagentInterface';
### MARKER ###
```

In our example:

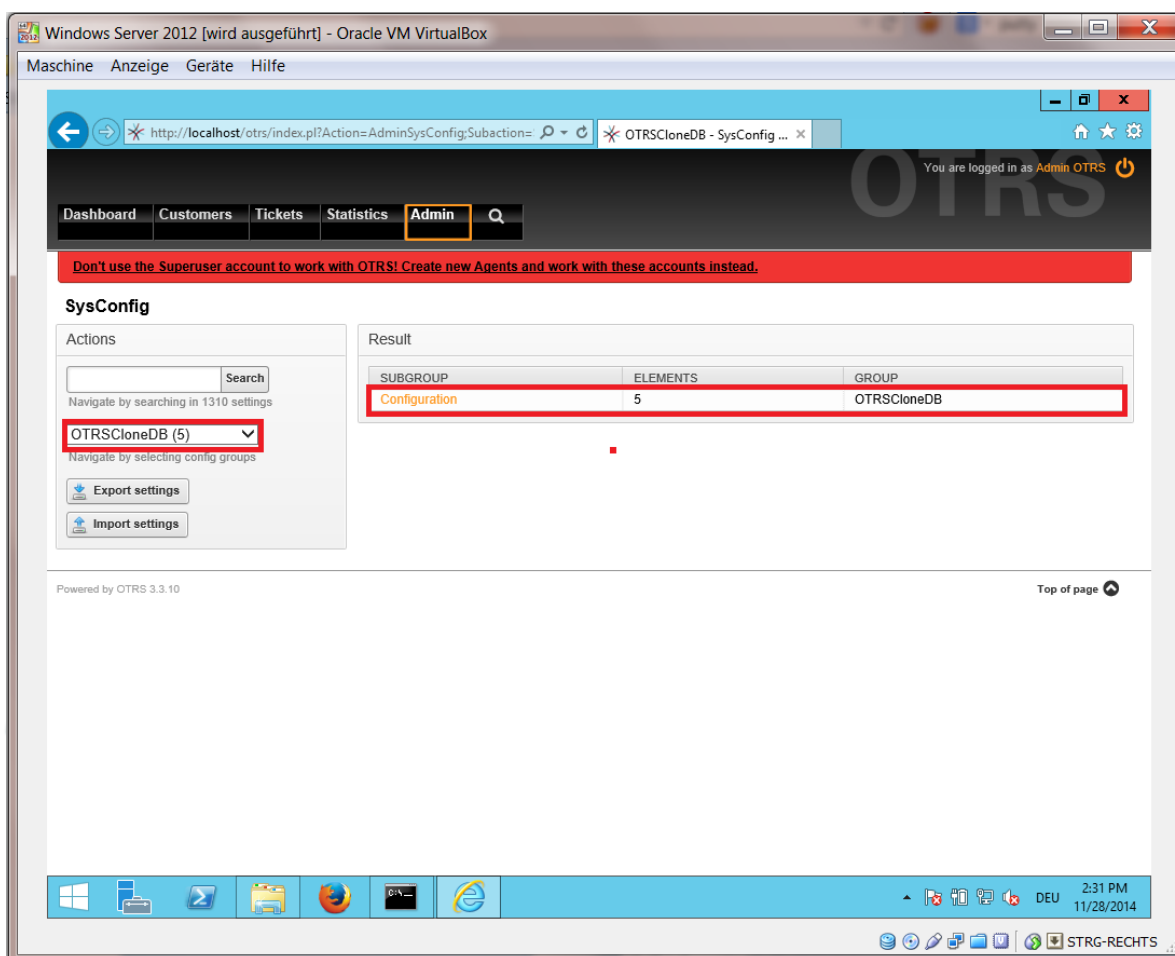
```
I88cm34A1B6xrl3
```

Write the password down on a piece of paper.

4.1.7. Clone your database into the target system

Switch back to your Windows based installation and open the SysConfig admin menu. Please select the group "OTRSCloneDB" and the subgroup "Configuration":

Figure 2.13. Configure OTRSCloneDB SysConfig 1 - screenshot

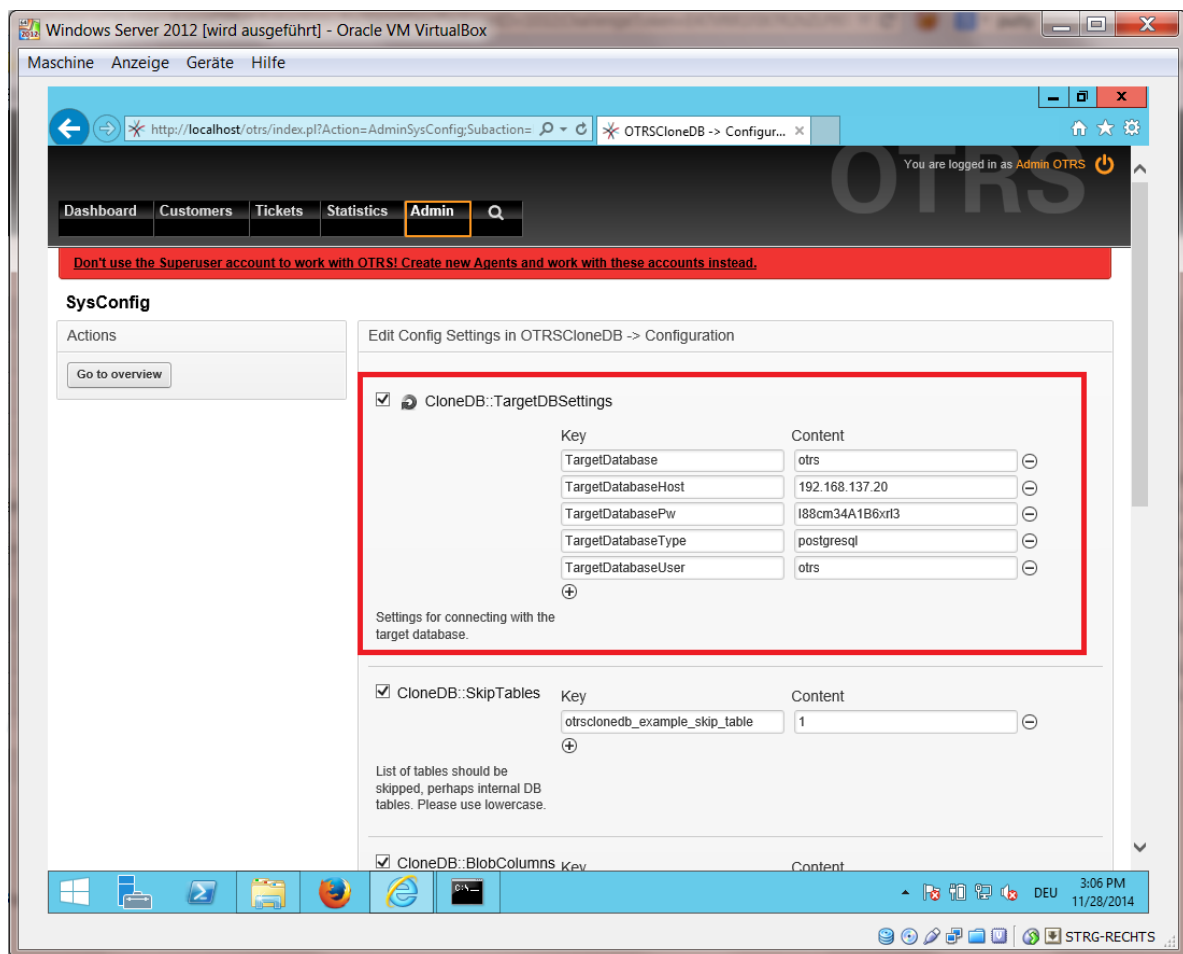


We need to configure the SysConfig option OTRSCloneDB::TargetSettings with the following values:

```

TargetDatabaseHost => 192.168.137.20 (Here you need to enter the ip address of your target
system)
TargetDatabase => otrs
TargetDatabaseUser => otrs
TargetDatabasePw => I88cm34A1B6xrl3 (Here you need to set the password of your target
system)
TargetDatabaseType => postgresql
  
```


Figure 2.14. Configure OTRSCloneDB SysConfig 2 - screenshot



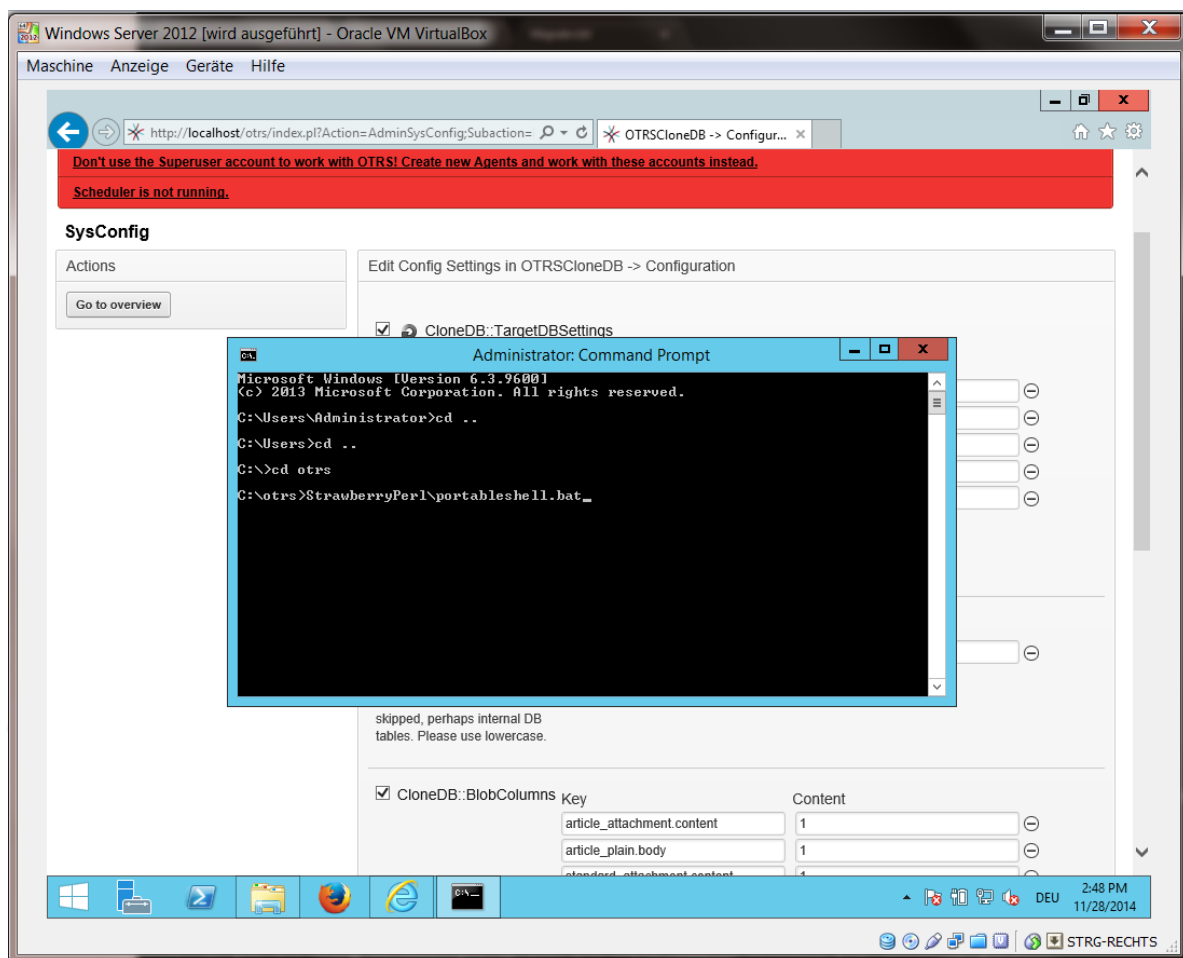
To run the OTRSCloneDB script we need to switch to the command prompt of our Windows based OTRS and to change into the base directory of our OTRS installation:

```
shell> cd "C:\otrs"
```

If you are using StrawberryPerl, then you maybe need to activate your shell for Perl:

```
shell> StrawberryPerl\portableshell.bat
```

Figure 2.15. Run OTRSCloneDB script 1 - screenshot



The OTRSCloneDB script is located in the bin directory of the OTRS directory.

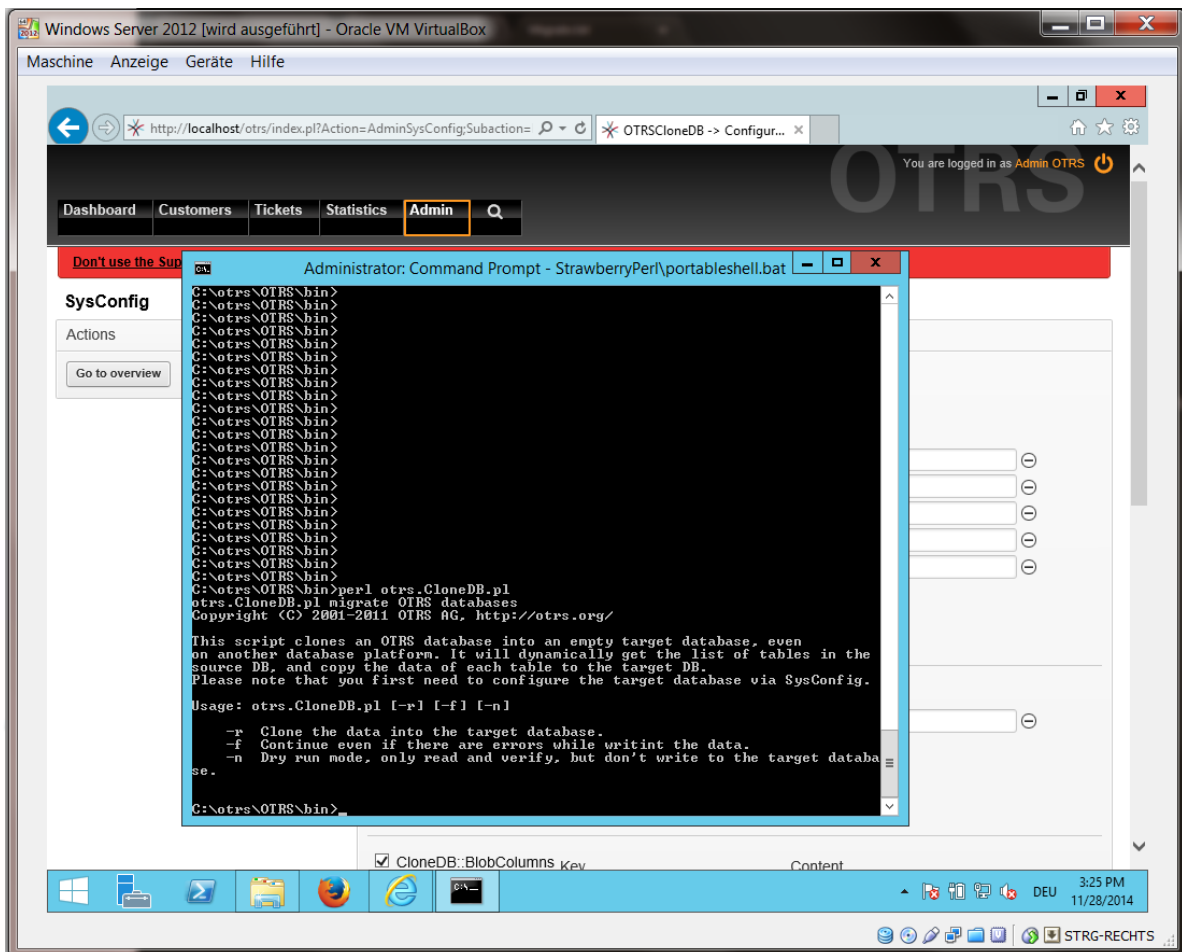
```
shell> cd "OTRS\bin"
```

Run the OTRSCloneDB script:

```
shell> perl otrs.OTRSCloneDB.pl
```

Now you should see some information about the script and its parameters.

Figure 2.16. Run OTRSCloneDB script 2 - screenshot

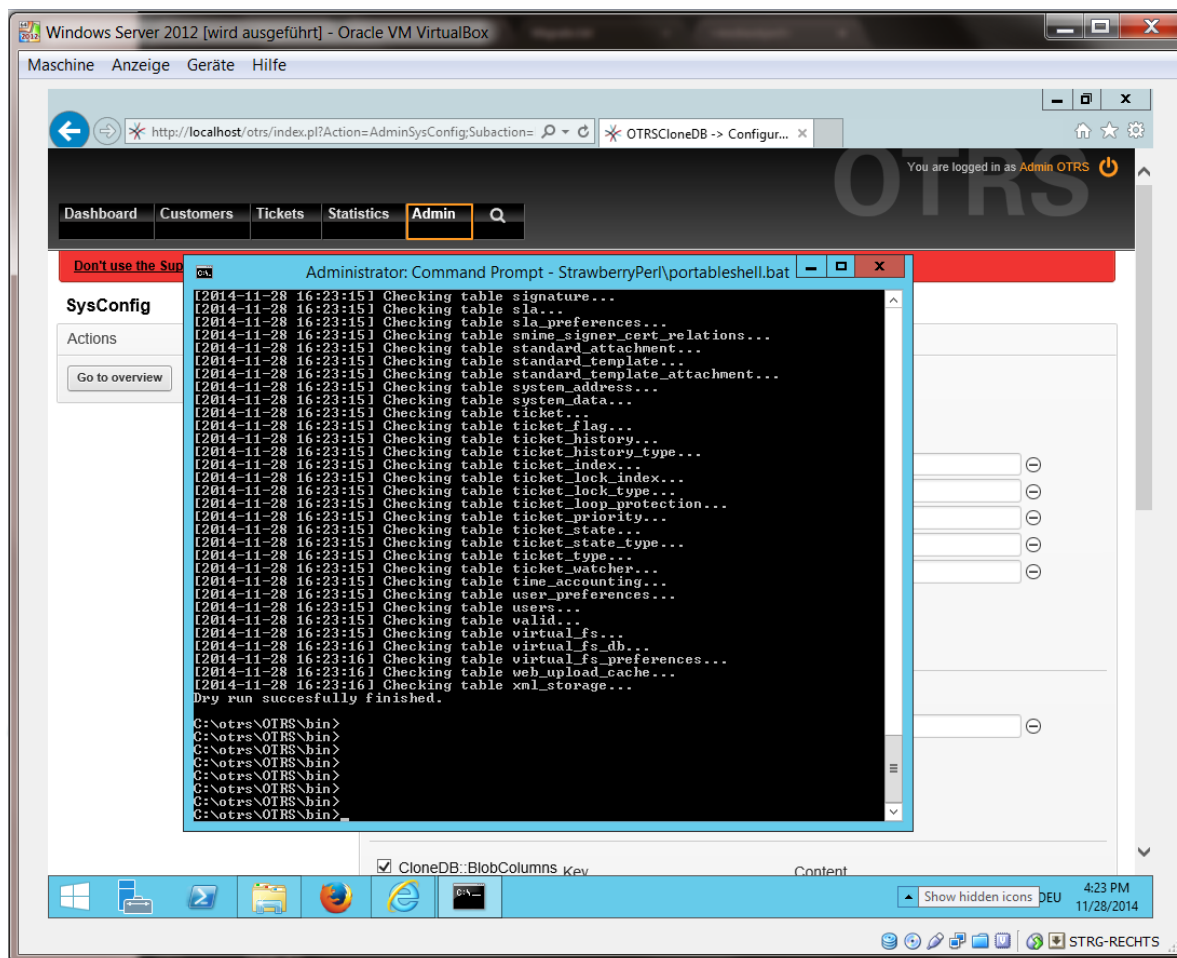


Note... Errors which occur at running without any parameters could relate to wrong login data for the database or problems with the database connection.

If no errors occurred, check if the dry run is successful:

```
shell> perl otrs.OTRScloneDB.pl -n
```

Figure 2.17. Run OTRSCloneDB script 3 - screenshot



Start the cloning of your database and cross your fingers:

```
shell> perl otrs.OTRSCloneDB.pl -r
```

An example of a successfully run look like this:

```
Generating DDL for OTRS.
Generating DDL for package OTRSCloneDB.
Creating structures in target database (phase 1/2)
...
...
Creating structures in target database (phase 2/2)
...
done.
```

4.1.8. Copy the following files from your Windows based system to the target system

You need to copy some files from your Windows based system to the target system. You can do this for example with a free tool like "WinSCP" (just search the internet for "WinSCP"). Copy the following files from your Windows based system:

```
C:\otrs\OTRS\Kernel\Config\GenericAgent.pm
```

```
C:\otrs\OTRS\Kernel\Config\Files\ZZZAuto.pm  
C:\otrs\OTRS\var\article\  
C:\otrs\OTRS\var\log\TicketCounter.log
```

to your target system:

```
/opt/otrs/Kernel/Config/GenericAgent.pm  
/opt/otrs/Kernel/Config/Files/ZZZAuto.pm  
/opt/otrs/var/article/  
/opt/otrs/var/log/TicketCounter.log
```

Open the file `/opt/otrs/Kernel/Config/Files/ZZZAuto.pm` on the target system and replace all paths like `"C:/otrs/OTRS/"` with `"/opt/otrs/"`!

If you have manually changes in your `Kernel/Config.pm` then please copy these changes to the target system's `Kernel/Config.pm`. Don't copy it 1:1 because you will now have different database settings and the file paths on the target system are different from Windows!

4.1.9. Reinstall all packages

Reinstall all packages with the package manager to get all custom files back.

```
shell> bin/otrs.SetPermissions.pl --otrs-user=otrs --otrs-group=otrs --web-user=www-data --  
web-group=www-data /opt/otrs  
shell> su - otrs  
shell> cd /opt/otrs  
shell> perl bin/otrs.Console.pl Maint::Cache::Delete  
shell> perl bin/otrs.Console.pl Maint::Loader::CacheCleanup  
shell> perl bin/otrs.Console.pl Admin::Package::ReinstallAll  
shell> exit
```

Fix all permissions in your OTRS system again:

```
shell> bin/otrs.SetPermissions.pl --otrs-user=otrs --otrs-group=otrs --web-user=www-data --  
web-group=www-data /opt/otrs
```

4.1.10. Disable remote access for the PostgreSQL database of your target system

Undo all steps you did to enable the remote access for the PostgreSQL database to your target system.

Change into postgresql directory:

```
shell> cd /etc/postgresql/9.4/main  
shell> vi postgresql.conf
```

Remove the following line at the end of the file:

```
listen_addresses = '*'
```

Save the file.

```
shell> vi pg_hba.conf
```

Remove the following line at the end of the file:

```
host all all 0.0.0.0/0 md5
```

Save the file.

Restart your postgresql server

```
shell> service postgresql restart
```

4.1.11. Start OTRS services

Start services of your target system:

```
shell> service cron start
shell> service apache2 start
shell> su - otrs
shell> cd /opt/otrs/
shell> bin/Cron.sh start
shell> bin/otrs.Daemon.pl -a start
```

Now you should be able to open the OTRS of your target system in the browser with the imported data of your Windows based system.

5. Upgrading OTRS from 4 to 5

These instructions are for people upgrading OTRS from 4 to 5 or from a 5 to a later patch-level release 5 and applies both for RPM and source code (tarball) upgrades.

If you are running a lower version of OTRS you have to follow the upgrade path to 4 first (1.1->1.2->1.3->2.0->2.1->2.2->2.3->2.4->3.0->3.1->3.2->3.3->4)! You need to perform a full upgrade to every version in between, including database changes and the upgrading Perl script.

Please note that if you upgrade from OTRS 2.2 or earlier, you have to take [an extra step](#).

Within a single minor version you can skip patch level releases if you want to upgrade. For instance you can upgrade directly from OTRS 5 patchlevel 2 to version 5 patchlevel 6. If you need to do such a "patch level upgrade", you should skip steps 6, 10, 11, 14, 17 and 18.

It is highly recommended to perform a test update on a separate testing machine first.

5.1. Step 1: Stop all relevant services

Please make sure there are no more running services or cron jobs that try to access OTRS. This will depend on your service configuration, here is an example:

```
shell> /etc/init.d/cron stop
shell> /etc/init.d/postfix stop
shell> /etc/init.d/apache stop
```

Stop OTRS cron jobs and the scheduler or daemon (in this order) depending on the OTRS version you are updating from:

```
shell> cd /opt/otrs/  
shell> bin/Cron.sh stop  
shell> bin/otrs.Scheduler.pl -a stop
```

or

```
shell> cd /opt/otrs/  
shell> bin/Cron.sh stop  
shell> bin/otrs.Daemon.pl stop
```

5.2. Step 2: Backup everything below /opt/otrs/

- Kernel/Config.pm
- Kernel/Config/GenericAgent.pm (only for reference, this file is not needed any more)
- Kernel/Config/Files/ZZZAuto.pm
- var/*
- as well as the database

5.3. Step 3: Make sure that you have backed up everything ;-)

5.4. Step 4: Install the new release (tar or RPM)

5.4.1. Step 4.1: With the tarball:

```
shell> cd /opt  
shell> mv otrs otrs-old  
shell> tar -xzf otrs-x.x.x.tar.gz  
shell> mv otrs-x.x.x otrs
```

5.4.1.1. Rejeshwa usanidi wa ma faili ya zamani

- Kernel/Config.pm
- Kernel/Config/Files/ZZZAuto.pm

5.4.1.2. Rudisha TicketCounter.log

In order to let OTRS continue with the correct ticket number, restore the TicketCounter.log to /opt/otrs/var/log/. This is especially important if you use incremental ticketnumbers.

5.4.1.3. Rejeshwa data za makala

If you configured OTRS to store article data in the filesystem you have to restore the article folder to /opt/otrs/var/ or the folder specified in the SysConfig.

5.4.1.4. Set file permissions

Please execute

```
shell> cd /opt/otrs/  
shell> bin/otrs.SetPermissions.pl
```

with the permissions needed for your system setup. For example:

- Web server which runs as the OTRS user:

```
shell> bin/otrs.SetPermissions.pl --web-group=otrs
```

- Webserver with wwwrun user (e. g. SUSE):

```
shell> bin/otrs.SetPermissions.pl --web-group=wwwrun
```

- Webserver with apache user (e. g. Red Hat, CentOS):

```
shell> bin/otrs.SetPermissions.pl --web-group=apache
```

- Webserver with www-data user (e. g. Debian, Ubuntu):

```
shell> bin/otrs.SetPermissions.pl --web-group=www-data
```

5.4.2. Step 4.2: With the RPM:

```
shell> rpm -Uvh otrs-x.x.x.-01.rpm
```

In this case the RPM update automatically restores the old configuration files and sets file permissions.

5.5. Step 5: Check needed Perl modules

Verify that all needed Perl modules are installed on your system and install any modules that might be missing.

```
shell> /opt/otrs/bin/otrs.CheckModules.pl
```

5.6. Step 6: Apply the database changes

5.6.1. Step 6.1: Database schema update

5.6.1.1. MySQL:

Note

Note: new tables created in the MySQL UPGRADING process will be created with the default table storage engine set in your MySQL server. In MySQL 5.5 the new

default type is InnoDB. If existing tables, e.g. "users", have the table storage engine e.g. MyISAM, then an error will be displayed when creating the foreign key constraints. In this case we recommend to switch all tables to InnoDB with the console command **bin/otrs.Console.pl Maint::Database::MySQL::InnoDBMigration**.

Any problems with regards to the storage engine will be reported by the `bin/otrs.Console.pl Maint::Database::Check` command, so please run it to check for possible issues.

```
shell> cd /opt/otrs/  
shell> cat scripts/DBUpdate-to-5.mysql.sql | mysql -p -f -u root otrs  
shell> bin/otrs.Console.pl Maint::Database::Check
```

5.6.1.2. PostgreSQL:

```
shell> cd /opt/otrs/  
shell> cat scripts/DBUpdate-to-5.postgresql.sql | psql --set ON_ERROR_STOP=on --single-transaction otrs otrs
```

5.6.2. Step 6.2: Database migration script

Run the migration script (as user `otrs`, NOT as `root`):

```
shell> scripts/DBUpdate-to-6.pl
```

The script will ask you to set a time zone for OTRS. It is very important that you set the correct time zone (and keep it), otherwise date and time of data added after the upgrade (tickets, articles, etc.) will be stored with a different time zone than your existing data, leading to inconsistent data. The script will suggest possible time zones based on your previous configuration. In case you are not sure or made a mistake, you can change the OTRS time zone after the upgrade via `SysConfig` setting `OTRSTimeZone`.

Do not continue the upgrading process if this script did not work properly for you. Otherwise data loss may occur.

5.7. Step 7: Refresh the configuration cache and delete caches

Please run (as user `otrs`, *not* as `root`):

```
shell> cd /opt/otrs/  
shell> bin/otrs.Console.pl Maint::Config::Rebuild  
shell> bin/otrs.Console.pl Maint::Cache::Delete
```

5.8. Step 8: Restart your services

e. g. (depends on used services):

```
shell> /etc/init.d/apache start  
shell> /etc/init.d/postfix start  
shell> /etc/init.d/cron start
```

Now you can log into your system.

5.9. Step 9: Check installed packages

Note

The OTRS packages of 4 are NOT compatible with OTRS 5, so you have to perform a package upgrade!

Vifurushi vifuatavyo vinasakinushwa kiotomatiki baada ya mchakato wa uboreshaji (kama zilisakinishwa kabla):

- OTRSGenericInterfaceMappingXSLT

5.10. Step 10: Configure NodeIDs (only for multi-frontend clustered setups)

Note

This step is only needed if you have a clustered setup with several frontend machines.

From OTRS 5 on, every frontend server needs to have its own unique NodeID. This defaults to 1 and thus does not need to be configured for single-frontend setups. If you have more than one machine, each machine needs to have this value set to a unique value between 1 and 999. This configuration needs to be done in the file Kernel/Config.pm:

```
$Self->{'NodeID'} = '2'; # assign a unique value for every frontend server
```

5.11. Step 11: Check follow-up detection configuration

The follow-up detection settings were reorganized. Now OTRS searches by default in email subject and references to detect follow-ups. Please check in AdminSysConfig Ticket -> Core::PostMaster if you need to make any changes to the follow-up detection configuration (for example to search in body, attachments or raw email content).

5.12. Step 12: Start the OTRS Daemon

The new OTRS daemon is responsible for handling any asynchronous and recurring tasks in OTRS. What has been in cron file definitions previously is now handled by the OTRS daemon, which is now required to operate OTRS. The daemon also handles all GenericAgent jobs and must be started from the otrs user.

```
shell> /opt/otrs/bin/otrs.Daemon.pl start
```

5.13. Step 13: Update and activate cron jobs

There are two default OTRS cron files in /opt/otrs/var/cron/*.dist, and their purpose is to make sure that the OTRS Daemon is running. They need to be activated by copying them without the ".dist" filename extension.

```
shell> cd /opt/otrs/var/cron
shell> for foo in *.dist; do cp $foo `basename $foo .dist`; done
```

To schedule these cron jobs on your system, you can use the script `Cron.sh` with the `otrs` user.

```
shell> /opt/otrs/bin/Cron.sh start
```

Please note that if you had any custom cron jobs, you should consider moving them to `SysConfig` (`Daemon -> Daemon::SchedulerCronTaskManager::Task`) to have them executed by the OTRS daemon as well. You might also need to adapt your custom scripts, because now most OTRS commands are managed by `bin/otrs.Console.pl` instead of single scripts.

5.14. Step 14: Review your ticket notifications

With OTRS 5 ticket notifications are configured differently than in previous versions. They are now part of the "Event Notifications" that were previously available as well (now called just "Ticket Notifications"). Your existing ticket notifications have been migrated into the list of ticket notifications, but deactivated. You have also received the new default ticket notifications, active by default.

In case you did not modify the old ticket notifications you don't have to do anything. If you have made local modifications or translations, you have two choices: a) you can migrate your modifications to the new ticket notifications (recommended) or b) you can deactivate the new notifications and activate the old notifications again.

Please also review the escalation notification recipient settings and see if they match with your expectations (agents who have the ticket in one of their custom queues vs. all agents with read permissions). This was configured via a setting in the file `Kernel/Config/GenericAgent.pm` (now obsolete) previously and can now be controlled via the GUI for each notification separately.

5.15. Step 15: Update system registration (optional)

If the system is already registered with OTRS Group, it is strongly recommended to update the registration information at this time. This will update the registered version of the system (among other changes) in the OTRS Group records, in order to get much accurate information from the cloud services.

If you don't update the registration information manually, it will be done automatically on a regular basis, but this could happen some hours or days after. During this period it might be possible to get wrong information from cloud services like **OTRS Business Solution™** updates.

```
shell> cd /opt/otrs/  
shell> bin/otrs.Console.pl Maint::Registration::UpdateSend --force  
shell> bin/otrs.Console.pl Maint::Cache::Delete
```

5.16. Step 16: Migrate custom Perl based GenericAgent jobs (optional)

This is only relevant if you had any custom `GenericAgent` jobs in Perl OTRS 4 configuration files such as `Kernel/Config/GenericAgent.pm` that cannot be handled with the regular

ticket notifications. Such jobs now need to be registered as OTRS Daemon cron tasks in the SysConfig (Daemon -> Daemon::SchedulerCronTaskManager::Task), in order to be executed on a regular basis.

There are 5 settings in the SysConfig prepared for this purpose (Daemon::SchedulerCronTaskManager::Task###GenericAgentFile1 to Daemon::SchedulerCronTaskManager::Task###GenericAgentFile5). If more settings are needed they can be added in a custom SysConfig setting file.

Please replace "<ModuleName>" with the file that contains the custom GenericAgent jobs configuration, e.g. Kernel::Config::GenericAgent for the file: Kernel/Config/GenericAgent.pm, set the schedule to match the periodicity as it was executed before, mark the setting as active and save the changes.

Note

To get more information about other parameters that can be used while running the GenericAgent jobs, please execute:

```
shell> bin/otrs.Console.pl Maint::GenericAgent::Run --help
```

5.17. Step 17: Setup bash autocompletion (optional)

All regular OTRS command line operations now happen via the OTRS Console interface `bin/otrs.Console.pl`. This provides an auto completion for the bash shell which makes finding the right command and options much easier.

You can activate the bash autocompletion by installing the package `bash-completion`. It will automatically detect and load the file `/opt/otrs/.bash_completion` for the `otrs` user.

After restarting your shell, you can just type `bin/otrs.Console.pl` followed by TAB, and it will list all available commands. If you type a few characters of the command name, TAB will show all matching commands. After typing a complete command, all possible options and arguments will be shown by pressing TAB.

5.18. Step 18: Review ticket action screen configurations (optional)

Some ticket action screens like "Note" had default subjects in OTRS 4 (configurable via SysConfig, `Ticket::Frontend::AgentTicketNote###Subject` in this case). These default subjects have been removed to reduce the amount of potentially redundant/meaningless data. You might want to re-add them if they are mandatory for you.

5.19. Step 19: Well done!

6. Additional Applications

Unaweza kusakinisha vifurushi vya ziada vya programu tumizi kupanua sifa za kiunzi cha OTRS. Hii inaweza kufanyika kupitia meneja vifurushi kutoka kwenye kurasa ya Msimamizi, ambayo inapakua programu tumizi kutoka kwenye hifadhi ya mtandaoni na kusimamia utegemezi wa vifurushi. Pia inawezekana kusakinisha vifurushi kutoka kwenye mafaili ya ndani.

6.1. Maswali yanasoulizwa mara kwa mara

Maswali Yanayoulizwa Mara kwa Mara ni kijenzi cha msingi wa maarifa. Inaruhusu kuhariri na kuona makala za Maswali Yanayoulizwa Mara kwa Mara. Makala yanaweza kuonwa na kuzuiwa kwa wakala, wateja watumiaji, au watumiaji wasiojulikana. Hizi pia zinaweza kupangwa katika makundi, na kusomwa katika lugha tofauti.



Chapter 3. First Steps

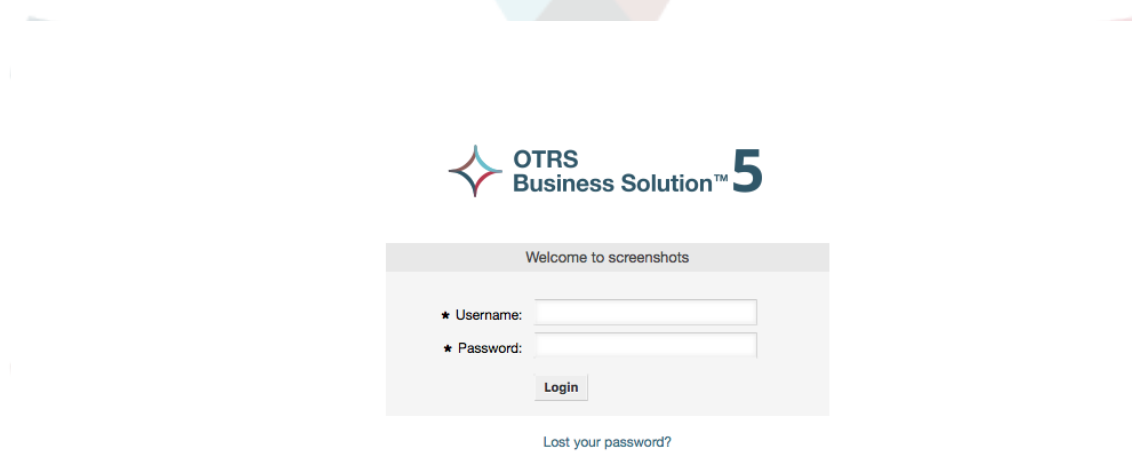
Lengo la sura hii ni kutoa mapitio mafupi ya OTRS na muundo wa kiolesura chake cha tovuti. Misemo 'mawakala', 'wateja', na 'wasimamizi' imetambulishwa. Pia tunaingia kama msimamizi wa OTRS na kuangalia kwa karibu mapendeleo ya mtumiaji yanayopatikana kwenye kila akaunti.

1. Agent Web Interface

Kiolesura cha tovuti cha wakala kinamruhusu wakala kujibu maombi ya wateja, kutengeneza tiketi mpya za wateja au mawakala wengine, kuandika tiketi kuhusu simu zilipigwa na wateja, kuandika maingizo ya maswali yaliyoulizwa mara kwa mara, kuhariri data za wateja, na kadh.

Supposing your OTRS host is reachable via the URL <http://www.example.com>, then the OTRS login screen can be reached by using the address <http://www.example.com/otrs/index.pl> in a web browser (see figure below).

Figure 3.1. Login screen of the agent interface

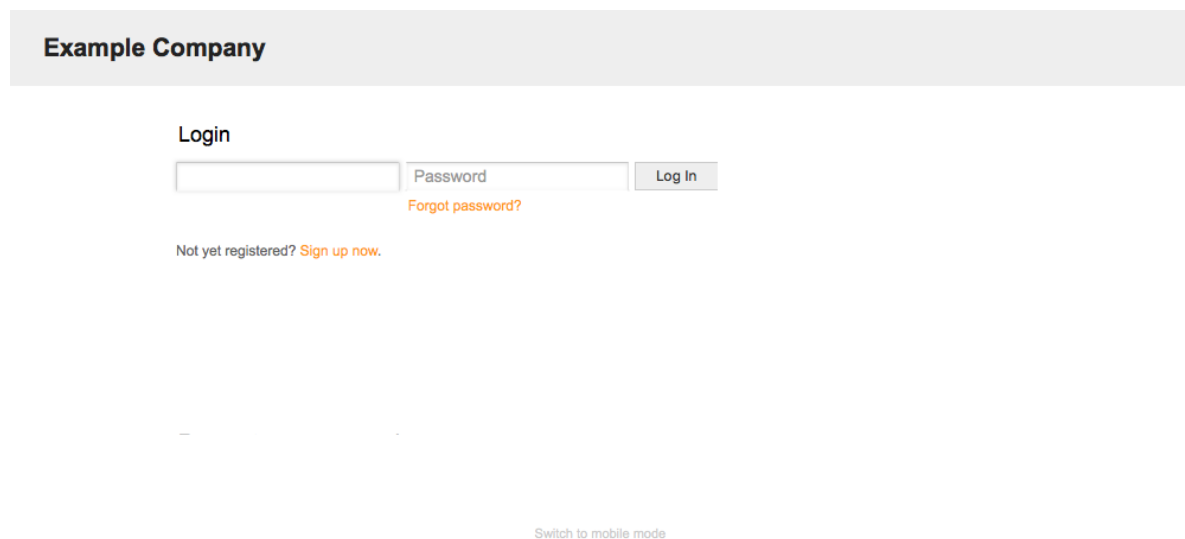


2. Customer Web Interface

Wateja wana violesura tofauti vya tovuti katika OTRS ambavyo wanaweza kutengeneza akaunti mpya, kubadilisha mipangilio yao ya akaunti, tengeneza na kuhariri tiketi, kupata mapitio ya tiketi walizotengeneza, na kadh.

Continuing the above example, the customer login screen can be reached by using the URL <http://www.example.com/otrs/customer.pl> with a web browser (see figure below).

Figure 3.2. Login screen of the customer interface

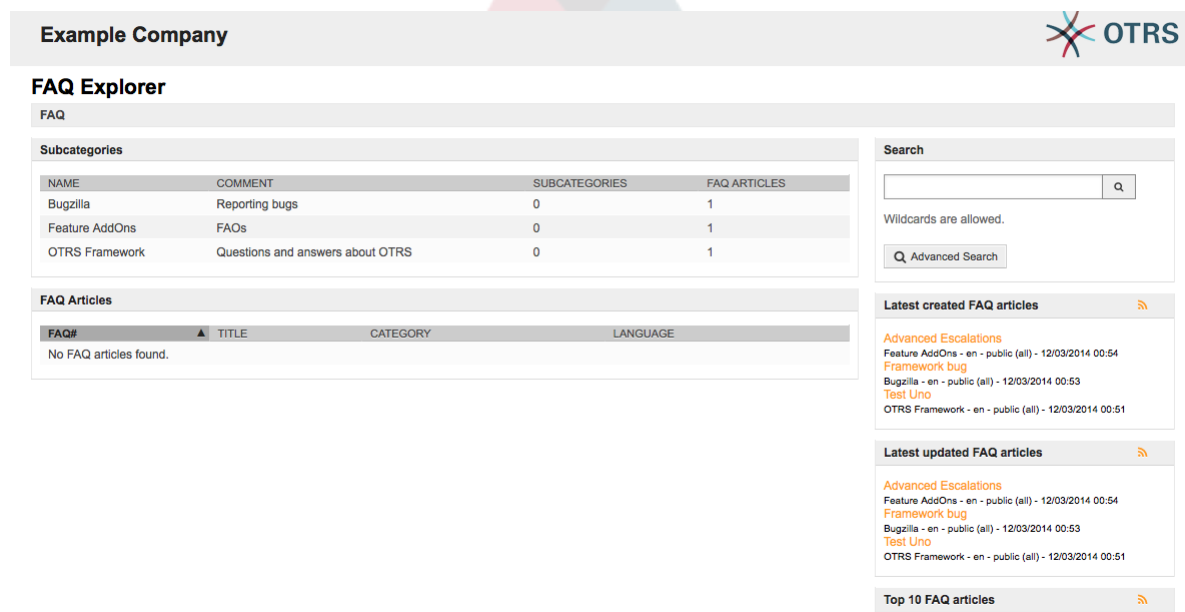


3. Public Web Interface

Kwa nyongeza kwenye violesura vya wavuti kwa ajili ya mawakala na wateja. OTRS pia ina kiolesura cha umma ambacho kinapatikana kupitia moduli ya maswali yanayoulizwa mara kwa mara. Hii moduli inahitaji kusakinishwa pekeyake. Inatoa ufikivu wa umma kwa mfumo wa maswali yanayoulizwa mara kwa mara na inaruhusu wageni kutafuta kwenye maingizo ya maswali yanayoulizwa mara kwa mara bila uidhinishaji wowote maalumu.

Katika mfano wetu, kiolesura cha tovuti cha umma kinaweza kufikiwa kwa kupitia aidha ya URL zifuatazo: <http://www.example.com/otrs/faq.pl> , <http://www.example.com/otrs/public.pl>

Figure 3.3. Kiolesura cha tovuti cha uma



4. First Login

Fikia kwenye skrini ya kuingia kama ilivyoelezwa katika kifungu Kiolesura cha tovuti cha wakala. Ingiza jina ka mtumiaji na nywila. Kwa kuwa mfumo ndio kwanza umesakinishwa na hakuna mtumiaji aliyetengenezwa, ingia kama msimamizi wa OTRS kwanza, kwa kutumia 'root@localhost' kama jina la mtumiaji na 'root' kama nywila.

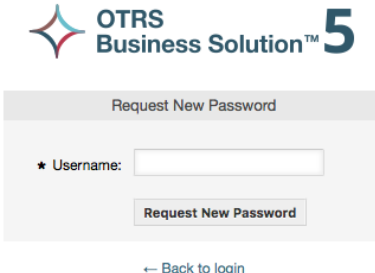
Warning

Hii data ya akaunti ni halali kwa kila usakinishaji mpya wa mfumo wa OTRS. Unatakiwa kubadilisha nywila ya msimamizi wa OTRS mapema iwezekanavyo! Hii inaweza kufanyika kupitia skrini ya mapendeleo kwa ajili ya akaunti ya msimamizi wa OTRS.

Kama hutaki kuingia kama msimamizi wa OTRS, ingiza jina la mtumiaji na nywila za akaunti yako ya kawaida ya wakala.

In case you have forgotten your password, you can request the system for a new password. Simply press the link below the Login button, enter the mail address that is registered for your OTRS account into the input field, and press the Submit button (see figure).

Figure 3.4. Ombi la neno la siri jipya

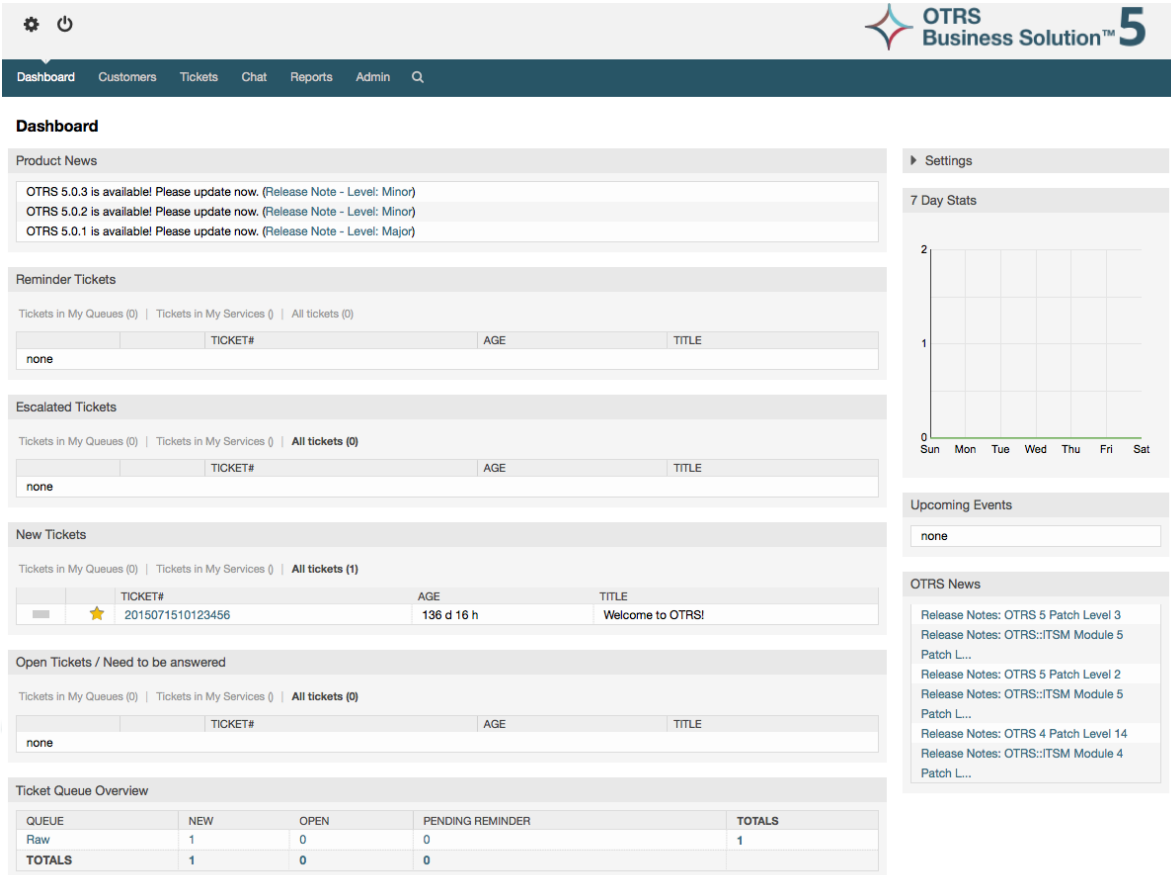


The screenshot shows the OTRS Business Solution 5 logo at the top. Below it is a form titled "Request New Password". The form contains a single input field labeled "★ Username:" and a "Request New Password" button. At the bottom of the form, there is a link that says "← Back to login".

5. The Web Interface - an Overview

Upon successfully logging into the system, you are presented with the Dashboard page (see figure below). It shows your locked tickets, allows direct access through menus to the queue, status and escalation views, and also holds options for creation of new phone and e-mail tickets. It also presents a quick summary of the tickets using different criteria.

Figure 3.5. Dashboard of the agent interface



Product News

OTRS 5.0.3 is available! Please update now. (Release Note - Level: Minor)
 OTRS 5.0.2 is available! Please update now. (Release Note - Level: Minor)
 OTRS 5.0.1 is available! Please update now. (Release Note - Level: Major)

Reminder Tickets

Tickets in My Queues (0) | Tickets in My Services (0) | All tickets (0)

TICKET#	AGE	TITLE
none		

Escalated Tickets

Tickets in My Queues (0) | Tickets in My Services (0) | All tickets (0)

TICKET#	AGE	TITLE
none		

New Tickets

Tickets in My Queues (0) | Tickets in My Services (0) | All tickets (1)

TICKET#	AGE	TITLE
★ 2015071510123456	136 d 16 h	Welcome to OTRS!

Open Tickets / Need to be answered

Tickets in My Queues (0) | Tickets in My Services (0) | All tickets (0)

TICKET#	AGE	TITLE
none		

Ticket Queue Overview

QUEUE	NEW	OPEN	PENDING REMINDER	TOTALS
Raw	1	0	0	1
TOTALS	1	0	0	

Settings

7 Day Stats

0 1 2

Sun Mon Tue Wed Thu Fri Sat

Upcoming Events

none

OTRS News

- Release Notes: OTRS 5 Patch Level 3
- Release Notes: OTRS::ITSM Module 5 Patch L...
- Release Notes: OTRS 5 Patch Level 2
- Release Notes: OTRS::ITSM Module 5 Patch L...
- Release Notes: OTRS 4 Patch Level 14
- Release Notes: OTRS::ITSM Module 4 Patch L...

To improve clarity, the general web interface is separated into different areas. The top row of each page shows some general information such as the logout button, icons listing the number of locked tickets with direct access to them, links to create a new phone/e-mail ticket, etc. There are also icons to go to the queue, status, and escalation views.

Chini ya safu mlalo za ikoni kuna mwambaa wa uabiri. Inaonyesha menyu ambayo inakuwezesha kwenda sehemu tofauti au kuona moduli tofauti za mfumo, ikikuruhusu kutekeleza baadhi ya vitendo vya ujumla. Kubofya kwenye kitufe cha Dashibodi inakupeleka kwenye dashibodi. Kama ukibofya kwenye kitufe cha Tiketi utapata menyu ndogo yenye machaguo ya kubadilisha muonekano wa tiketi, tengeneza tiketi mpya (simu/barua pepe) au tafuta tiketi fulani. Kitufe cha Takwimu kinakupa menyu inayokuruhusu kuchagua kutoka kwenye mapitio ya takwimu zilizosajiliwa, kutengeneza mpya au kuagiza iliyopo. Kitufe cha Wateja kinakupeleka kwenye skrini ya Usimamizi wa Mteja. Kwa kubofya kitufe cha Msimamizi, unaweza kufikia moduli zote za msimamizi, ambazo zinakuruhusu kutengeneza mawakala wapya, foleni na kadh. Pia kuna kitufe cha kutafuta tiketi.

Kama programu-tumizi zozote zinazohusika zimesakinishwa pia, mf. maswali yanayoulizwa mara kwa mara au Utafiti, vitufe kufikia hizi programu-tumizi pia vinaonyeshwa.

In the area below the navigation bar, different system messages can be shown. If you are logged in as the default OTRS administrator user, you get a red message warning you not to work using this system account.

Chini ya kichwa cha habari cha kifungu ulichopo sasa, kuna vifungu vidogo tofauti vyenye taarifa husika kuhusu skrini unayofanya kazi, kila moja katika kisanduku tofauti.

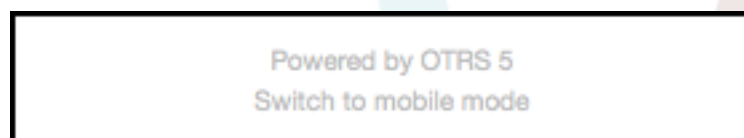
Haya maboksi yana sehemu muhimu ya kila skrini, kwa kawaida yanaonyeshwa katika safuwima moja au tofauti, kila boksi linaweza kuhifadhi taarifa husika kuhusu skrini ya

sasa kwa mfano maelekezo, ushauri, mapitio, na kadh. Pia inaonyeshwa fomu au kifaa muhimu cha kutekeleza kitendo kinachohusika kwa kila skrini, kama kwa mfano, ongeza, sasisha au futa rekodi, kagua batli, badilisha mipangilio ya mabadiliko, na kadh.

Finally at the bottom of the page, the site footer is displayed (see figure below). It contains links to directly access the OTRS official web site, or go to the Top of the page.

Kwa kawaida safu mlalo ya ikoni, mwambaa wa uabiri na kijachini ziko hivyo hivyo katika skrini zote kwenye kiolesura cha tovuti.

Figure 3.6. Kijachini



6. Dashibodi

Dashi bodi ndiyo kurasa kuu ya mfumo, hapa unaweza kupata kitufe cha mapitio ya tiketi na vitu vingine vyenye uhusiano na shughuli za tiketi. Inafikiria kuwa sehemu ya kuanzia kazi za kila siku za wakala, kwa kawaida inatoa ufupisho wa haraka wa tiketi ambazo zinasubiri, zimepandishwa, mpya na zilizofunguliwa, kuachana nataarifa nyingine.

Moja ya sifa kubwa za Dashibodi ni kwamba inaweza kugeuzwa kabisa kukufaa. Hii inaamaanisha unaweza kusanidi kila upande kadri utakavyo, kuonyesha au kuficha elementi. Pia inawezekana kuhamisha makazi ya hizi elemnti katika safuwima moja kwa kubofya na kukokota kichwa cha elementi, na kuzidondosha mahali pengine. Kila elementi ina jina "Kifaa", mfumo una baadhi ya vifaa vya kutumia nje ya boksi, lakini usanifu uliojiki-ta kwenye moduli wa skrini ya dashibodi umeandaliwa kuunganisha vifaa vingine vya kawaida kwa urahisi.

Maudhui ya hii skrini imepangwa katika safuwima mbili kuu muhimu, kwenye safuwima ya kushoto unaweza kuona taarifa kuhusu tiketi zilizopangwa kwa hali zake kama: kikumbusho, iliyopandishwa, mpya, na wazi. Katika kila kifaa unaweza kuchuja matokeo kuona tiketi zote ambazo unaruhusiwa kufikia, tiketi ulizofunga, zile ambazo zipo kwenye foleni iliyofafanuliwa na wakala, pamoja na vichujio vingine. Pia kuna aina nyingine za vifaa katika hii safuwima na vimefafanuliwa chini.

Figure 3.7. Vifaa vya dashibodi

Dashboard

Product News

Can't connect to Product News server!

Reminder Tickets

Tickets in My Queues (0) | Tickets in My Services () | All tickets (0)

	TICKET#	AGE	TITLE
none			

Escalated Tickets

Tickets in My Queues (0) | Tickets in My Services () | All tickets (0)

	TICKET#	AGE	TITLE
none			

New Tickets

Tickets in My Queues (0) | Tickets in My Services () | All tickets (1)

	TICKET#	AGE	TITLE
■ ★	2015071510123456	136 d 16 h	Welcome to OTRS!

Open Tickets / Need to be answered

Tickets in My Queues (0) | Tickets in My Services () | All tickets (0)

	TICKET#	AGE	TITLE
none			

Ticket Queue Overview

QUEUE	NEW	OPEN	PENDING REMINDER	TOTALS
Raw	1	0	0	1
TOTALS	1	0	0	

Vifaa vya dashibodi vya safuwima ya kushoto.

- Vifaa vya Orodha ya Tiketi

Widgets under this category share same overall behavior, look and feel. This widget shows a list of tickets on a determined state. The amount of tickets displayed on each list page can be configured in widget options (they appear when you hover the mouse pointer over the top right part of the widget). This widget supports the following filters:

- Tiketi zangu zilizofungwa
Tiketio ambazo wakala aliyeingia amezifunga.
- Tiketi zangu zinazoangaliwa

Tiketi ambazo wakala aliyeingia kwenye mfumo anazo kwenye orodha yake ya zilizo chini ya uangalizi, zinahitaji mpangilio wa Tiketi::Muangalizi kuwashwa ili kuonyeshwa.

- Majukumu yangu

Tiketi ambazo wakala aliye kwenye mfumo amewekwa kama mhusika, mpangilio Tiketi::jukumu unatakiwa kuwashwa ili kufanya hiki kichujio kuonekana.

- Tiketi kwenye Foleni Yangu

Tiketi ambazo zipo kwenye foleni ambazo wakala amefafanua kama "Foleni Zangu".

- Tiketi zilizopo kwenye huduma

The tickets that are assigned to services where the agent define as "My Services" and are on queues with at least read-only permissions.

- Tiketi zote

Tiketi zote ambazo wakala ana ufikivu.

Vifaa hivi ni:

- Tiketi za kumbukumbu

Tiketi zilizosetiwa kama zinazosubiri na tarehe ya kikumbusho imefikiwa.

- Tiketi zilizopandishwa

Tiketi zilizopandishwa

- Tiketi Mpya

Tiketi zenye hali "Mpya".

- Tiketi Wazi / Zinahitaji kujibiwa

Tiketi zenye hali "Wazi" na ziko tayari kufanya nazo kazi.

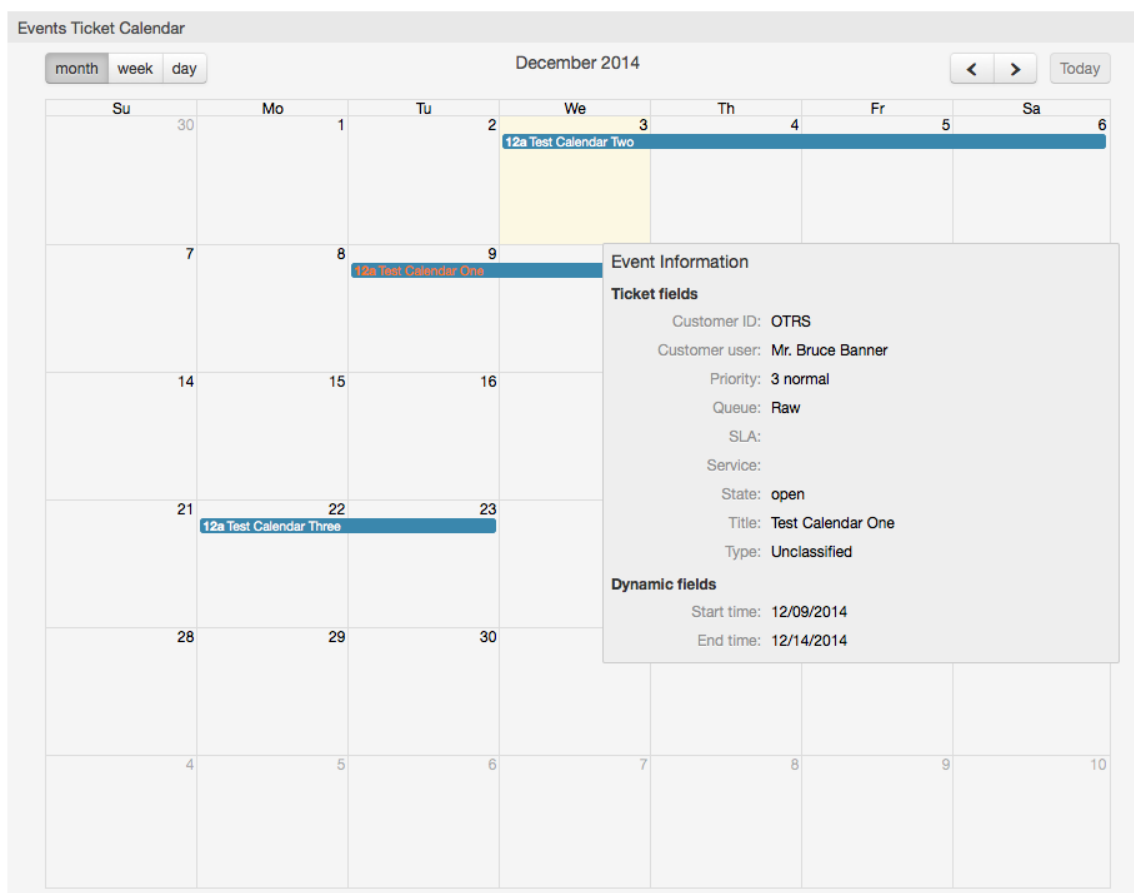
- Matukio Tiketi Kalenda

Tukio la kalenda (kwa kifaa hiki) linafafanuliwa pale tiketi mpya inatengenezwa, kipengele cha Matukio Tiketi Kalenda inabidi kiwezeshe, na kinahitaji sehemu mpya mbili kuonyeshwa kwenye skrini za kutengeneza tiketi, moja kwa ajili ya muda wa kuanza tukio la tiketi na nyingine kwa ajili ya muda wa kumaliza, hii mida inaelezea muda unao-tumiwa na tukio.

This widget includes the following views: month, week and day. Agents can scroll through the pages by using the right and left arrows.

Kama ilivyosemwa kabla kulemaza tuu vifaa haitoshi, baadhi ya sehemu zinazobadilika za "Tarehe/Muda" kwa ajili ya tiketi inabidi ziongezwe kwenye mfumo (kupitia kiungo cha Sehemu Zinazobadilika katika paneli ya "Msimamizi") na kuziseti katika SysConfig kwa ajili ya hiki kifaa, Sehemu Zinazobadilika zote mbili lazima zisanidiwe ili zionyeshwe katika skrini za kutengeneza tiketi, zinatakiwa zijazwe wakati wa kutengeneza tiketi au katika skrini ya vitendo nyingine yoyote (mf. Sehemu Huru) kuelezea itakaochukua muda wa tukio la kalenda (muda wa kuanza na kumaliza), skrini ya kuza tiketi inaweza kusanidiwa kuonyesha hii sehemu inayobadilika pia, kama ukiifikiria kama muhimu.

Figure 3.8. Kifaa cha Matukio ya Kalenda ya Tiketi



The screenshot shows the 'Events Ticket Calendar' interface for December 2014. The calendar grid displays several events: '12a Test Calendar Two' on Dec 3-6, '12a Test Calendar One' on Dec 8-9, and '12a Test Calendar Three' on Dec 21-23. A pop-up window titled 'Event Information' is open, showing details for '12a Test Calendar One':

Event Information	
Ticket fields	
Customer ID:	OTRS
Customer user:	Mr. Bruce Banner
Priority:	3 normal
Queue:	Raw
SLA:	
Service:	
State:	open
Title:	Test Calendar One
Type:	Unclassified
Dynamic fields	
Start time:	12/09/2014
End time:	12/14/2014

Zaidi usanidi wa hiki kifaa unaweza kupatikana chini ya "Mazingirayambe::Wakala::Dashibodi::MatukioTiketiKalenda" KundiDogo katika SysConfig:

- UpanaWaKalenda
Inafanua upana wa kalenda kwa asilimia. Chaguo-msingi ni 95%.
- SehemuInayobadilikaMudaKuanza
Inafanua jina la sehemu inayobadilika kwa ajili ya muda wa kuanza.
- SehemuInayobadilikaMudaKumaliza
Inafanua jina la sehemu inayobadilika kwa ajili ya muda wa kumaliza.
- Foleni
Tiketi za kwenye foleni zilizobainishwa kwenye huu mpangilio tu ndiyo zitawekwa maanani kwenye muonekano wa kalenda.
- SehemuZinazobadilikaKwaajiliyaMatukio
Inafanua sehemu zinazobadilika ambazo zitaonyeshwa katika madirisha ya kufunika ya kalenda ya matukio.
- SehemuZaTiketiKwaajiliyaMatukio

Inafafanua sifa za tiketi ambazo zitaonyeshwa katika jalada la windows la tukio la kalenda.

- Mapitio ya Foleni ya Tiketi

Hiki kifaa kinaonyesha katika matriki ya idadi ya tiketi wapi safu mlalo zinawakilisha foleni na safuwima zinawakilisha hali za tiketi, kisha katika kila seli idadi ya tiketi katika hali iliyofafanuliwa ambayo ni ya foleni fulani imeonyeshwa.

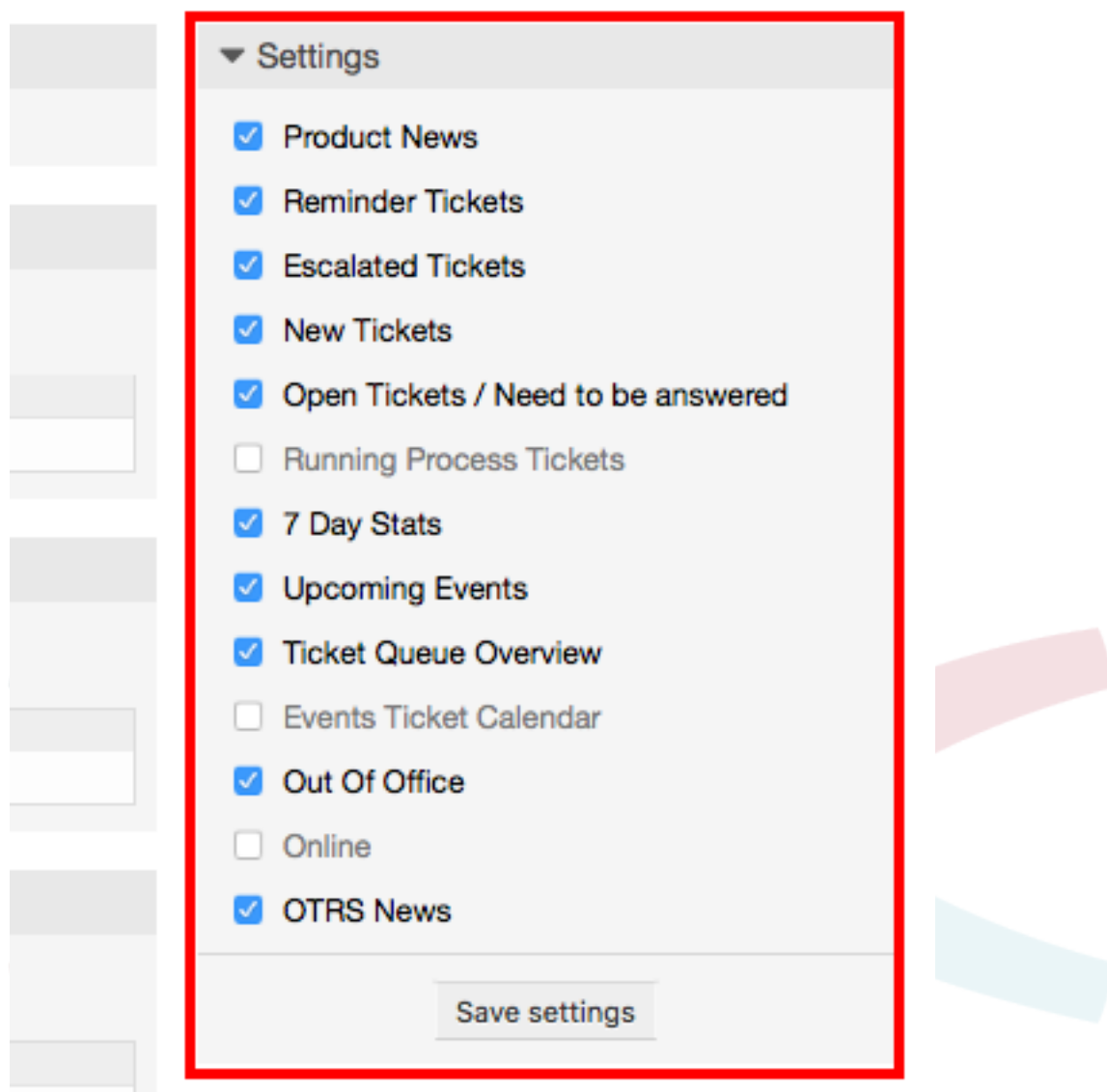
Kifaa pia kinaonyesha Jumla ya safumlalo na Jumla ya safuwima, Jumla ya safumlalo inaonyesha jumla ya tiketi kwa kila hali kwenye foleni zote zilizoonyeshwa, wakati Jumla ya safuwima inawakilisha jumla ya tiketi kwa kila foleni kwenye foleni zote zilizoonyeshwa.

Foleni na hali ambazo zimeonyeshwa zinaweza kubadilishwa kupitia Sysconfig.

Kwa kubofya kwenye yoyote kati ya nambari ya idadi ya tiketi ukurasa wa matokeo ya utafutaji watiketi yatafunguliwa kuwezesha mawakala kuwa kuona undani wake zaidi .

In the right column is located a special widget that allow you to control the widgets you want to show or hide. This is the Settings widget. Click on it's header to expand the section and see all available widgets, as shown in Figure. Each widget name has a checkbox. Use this checkboxes to define the visibility of the widgets in the dashboard (unchecked widgets will not be shown) after you define the visibility options and click on 'Save' for storing your changes. This section is fixed on the screen, this means you can't drag and drop it, or close it.

Figure 3.9. Dashboard Settings



Vifaa vya dashibodi ya safuwima ya kulia.

- Takwimu za siku 7

Inaonyesha grafu ya shughuli za tiketi kwa siku 7 zilizopita ambayo inajumuisha mistari 2. Mmoja ambao kwa kawaida ni rangi ya bluu, unawakilisha idadi ya tiketi zilizotengenezwa kwa siku na ya pili, kwa kawaida rangi ya machungwa na unawakilisha tiketi zilizofungwa kwa siku.

- Matukio Yajayo

Tiketi kwa ajili ya kupandishwa au tayari zilizopandishwa zinaorodheshwa hapa, taarifa kutoka kwenye hiki kifaa ni ya muhimu sana kwa kuwa una nafasi ya kujua kuhusu tiketi inahitaji umakini wako na unaweza kuamua ni zipi unataka kuweka bidii yako, seti vipaumbele au angalia kirahisi kinachokuja.

- OTRS Habari

Orodha kamili ya shughuli za OTRS na taarifa muhimu kuhusu matoleo mapya ya bidhaa au viraka.

- Mtandaoni

Hapa ni ufupisho ulioonyeshwa kuhusu mawakala walioingia kwenye mfumo kwa sasa, pia inajumuisha kifungu cha wateja walio mtandaoni, tafadhali tambua hiki kifaa kinafichwa kwa kawaida, kinaweza kuonyeshwa kwa kutumia kifaa cha Mipangilio kili-choelezwa hapo juu.

7. What is a Queue?

Katika mifumo mingi ya barua, ni kawaida kwa ujumbe wowote kuingia kwenye faili la kisanduku pokezi, ambapo zinabaki zimehifadhiwa. Ujumbe mpya unaongezwa mwishoni mwa faili la Kisanduku pokezi. Programu ya barua ya mteja inayotumika kusoma na kuandika barua inasoma hili faili la Kisanduku pokezi na kupeleka maudhui kwa mtumiaji.

Foleni katika OTRS ni karibu inafanana na faili la kisanduku pokezi, kwa kuwa yenyewe nayo inahifadhi ujumbe wa aina nyingi. Foleni pia ina vipengele kuzidi vile vya faili la kisanduku pokezi cha barua. Kama mtumiaji au wakala wa OTRS, mtu inabidi akumbuke foleni gani tiketi imehifadhiwa. Mawakala wanaweza kufungua na kuhariri tiketi katika foleni, na pia kuhamisha tiketi kutoka foleni moja kwenda nyingine. Lakini kwanini zihamishe tiketi?

Kuelezea kwa vitendo zaidi, kumbuka mfano wa Kampuni ya Max iliyoelezwa katika mfano wa mfumo wa tiketi. Max alisakinisha OTRS ili kuruhusu timu yake kusimamia vizuri usaidizi wa wateja wa kampuni wanaonunua rekoda za video.

Foleni moja inayoshikilia maombi yote inatosha kwa hii hali. Hata hivyo, baada ya muda Max anaamua pia kuuza rekoda za DVD. Sasa, wateja wana maswali sio tu kuhusu rekoda za video, lakini pia kuhusu bidhaa mpya. Barua pepe zaidi na zaidi zinaingia kwenye foleni moja ya OTRS ya Max na ni ngumu kupata picha kamili ya kinachoendelea.

Max anaamua kuunda upya mfumo wake wa usaidizi, na kuongeza foleni mpya mbili. Kwa hiyo sasa foleni tatu zinatumiwa. Ujumbe mpya unaoingia katika mfumo wa tiketi unahifadhiwa kwenye foleni ya zamani iitwayo "mbichi". Kati ya foleni mpya mbili, moja inaitwa "rekoda ya video" ni kwa ajili ya maombi ya rekoda za video tu, wakati nyingine "rekoda ya dvd" ni kwa ajili ya maombi ya rekoda za dvd tu.

Max anamuomba Sandra kuangalia foleni "mbichi" na kupanga (kupeleka) ujumbe aidha kwenda kwenye foleni ya "rekoda za video" au "rekoda za dvd", kutegemeana na maombi ya mteja. John ana ufikivu kwa foleni ya "rekoda za video" tu, wakati Joe anaweza kujibu tiketi katika foleni ya "rekoda ya dvd" tu. Max anaweza kuhariri tiketi katika foleni zote.

OTRS ina msaada kwa usimamizi wa ufikivu kwa watumiaji, makundi, na majukumu, na ni rahisi kuseti foleni ambazo zinaweza kufikiwa na baadhi ya akaunti za watumiaji. Max angeweza pia kutumia njia nyingine kufikisha maombi yake kwenye foleni tofauti, kwa sheria za kuchuja. Vinginevyo, kama anwani mbili tofauti za barua pepe zimetumiwa, Sandra anaweza kutuma zile barua pepe kwenye foleni nyingine mbili, ambazo haziwezi kutumwa kiotomatiki.

Kupanga ujumbe wako unaoingia kwenye foleni tofauti inakusaidia kufanya mfumo wa msaada kuwa msafi na wenye mpangilio. Kwa sababu mawakalawako wamepangwa katika makundi tofauti wakiwa na haki tofauti za ufikivu kwenye tiketi, mfumo unaweza kusadifishwa zaidi. Foleni zinaweza kutumika kufafanua michakato ya mtiririko wa kazi au kutengeneza muundo a kampuni. Max anaweza kutengeneza kwa mfano, foleni nyingine iitwayo "mauzo", ambayo inaweza kuwa na foleni ndogo "maombi", "ofa", "oda", "bili", na kadh. Muundo kama huu wa foleni unaweza kumsaidia Max kusadifisha mpangilio wa miamala yake.

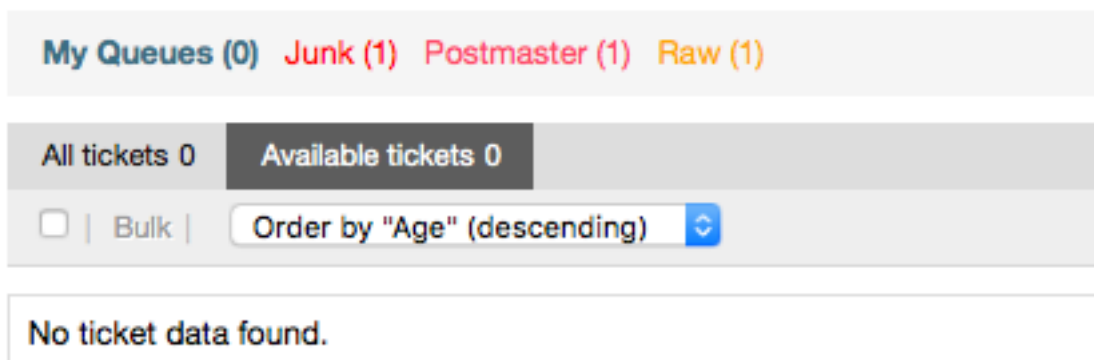
Muundo wa mfumo ulioboreshwa, kama kupitia usanifu mzuri wa foleni, inaweza kupelekea kuokowa muda na pesa nyingi. Foleni zinasaidia kusadifisha michakato kwenye kampuni yako.

8. What is the Queue Overview?

Mapitio ya foleni yanatoa muonekano wa foleni zote ambamo tiketi zipo, na ambamo mtumiaji ana haki za kusoma na kuandika.

Figure 3.10. Muonekano wa Foleni kwa Mawakala (Chaguo-msingi)

QueueView: My Queues



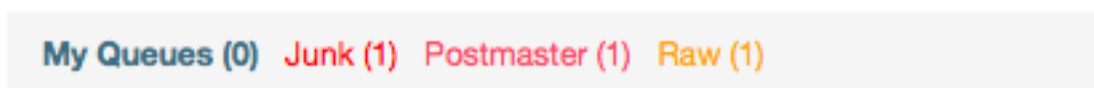
The queue overview offers a variety of options for daily work with OTRS. The first of these is the My Queue. In the Agent Preferences, or when administering agents, a set of queues can be defined for which the agent has been assigned to work within. All the tickets will appear in this default view, when accessing the Tickets -> Queue View menu.

Chaguo la pili linalotolewa na Muonekano wa Foleni ni kuchimba hini uabiri kwenda kwenye foleni binafsi na foleni ndogo zenye tiketi za kufanyiwa kazi.

In both of the view types, the user also has the added ability to see either all unlocked tickets (this is the default filter), or the user can then choose to view all available tickets. Tickets must be in one of the viewable state types to be shown in the queue view. Per default, these are 'open, new, pending reminder, pending auto'.

Kuna kengele zinazoonekana, kumsaidia mtumiaji.

Figure 3.11. Wakala Foleni Ona kengele zinazoonekana.



Kengele Zinazoonekana

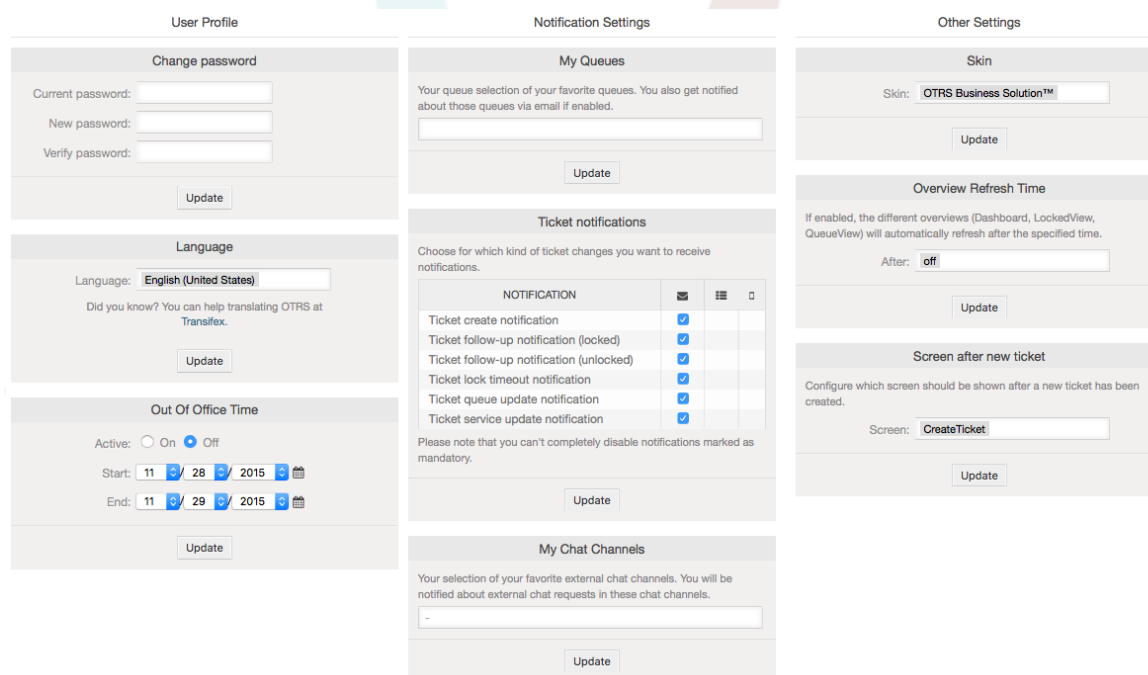
- Angaza Umri 1: Inaseti umri katika dakika (ngazi ya kwanza) kwa ajili ya kuangaza foleni zenye tiketi ambazo hazijaguswa. Imeonekana juu kwenye foleni "Mbichi" .
- Angaza Umri 2: Inaseti umri katika dakika (ngazi ya pili) kwa ajili ya kuangaza foleni zenye tiketi ambazo hazijaguswa. Imeonekana juu katika foleni ya "Mkuu wa posta".
- Konyeza: Ina amilisha utaratibu wa kukonyeza wa foleni ambayo ina tiketi ya zamani kuzidi zote. Haina msaada kwa vivinjari vyote. Kwa hali hii itaonekana nyekundu, kama inavyoonekana juu katika foneni "Taka".

- Kwa herufi nzito: Foleni ya sasa itakuwa na herufi nzito, kama inavyoonekana juu kwenye "Foleni Zangu".

9. User Preferences

OTRS users such as customers, agents and the OTRS administrator can configure their account preferences as per their needs. Agent can access the configuration screen by clicking on their login name at the top right corner of the web interface (see figure below), and customers must click on the "Preferences" link (see figure below).

Figure 3.12. Agent's personal preferences



The screenshot shows the 'Agent's personal preferences' configuration page, which is organized into three main columns:

- User Profile:**
 - Change password:** Fields for Current password, New password, and Verify password, with an 'Update' button.
 - Language:** A dropdown menu set to 'English (United States)', with a note about helping translate OTRS and an 'Update' button.
 - Out Of Office Time:** Radio buttons for 'On' and 'Off' (selected), and date/time pickers for Start (11/28/2015) and End (11/29/2015), with an 'Update' button.
- Notification Settings:**
 - My Queues:** A text input field for selecting favorite queues, with an 'Update' button.
 - Ticket notifications:** A table for selecting notification types.

NOTIFICATION	✉	📧	📧
Ticket create notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ticket follow-up notification (locked)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ticket follow-up notification (unlocked)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ticket lock timeout notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ticket queue update notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ticket service update notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 - My Chat Channels:** A text input field for selecting favorite external chat channels, with an 'Update' button.
- Other Settings:**
 - Skin:** A dropdown menu set to 'OTRS Business Solution™', with an 'Update' button.
 - Overview Refresh Time:** A text input field set to 'off', with an 'Update' button.
 - Screen after new ticket:** A dropdown menu set to 'CreateTicket', with an 'Update' button.

An agent can configure 3 different categories of preferences: user profile, email settings, and other settings. The default possibilities are:

Umbo wa Mtumiaji

- Badili nywila ya sasa.
- Rekebisha lugha ya kiolesura.
- Amilisha na kusanidi muda wa nje ya ofisi.
- Hamisha mandhari ya mazingira ya mbele.

Notification Settings

- Chagua foleni unazotaka kufuatilia katika "Foleni Zangu".
- Select the services you want to monitor in "My Services".
- Configure which ticket notifications you want to receive (per transport method).

Mipangilio mingine

- Badili gamba la mazingira ya mbele.

- Set the refresh period for the overviews (Dashboard, Queue View, etc.).
- Seti skrini ya kuonyeshwa baada ya tiketi kutengenezwa.

Figure 3.13. Customer's personal preferences

Example Company

Tickets

Interface language Language: English (United States) <input type="button" value="Update"/>	Ticket overview Refresh interval: off <input type="button" value="Update"/>
Number of displayed tickets Tickets per page: 25 <input type="button" value="Update"/>	Change password Current password: <input type="text"/> New password: <input type="text"/> Verify password: <input type="text"/> <input type="button" value="Update"/>

Mteja anaweza kuchagua lugha ya kiolesura cha tovuti, kuseti muda wa kuonesha upya mapitio ya tiketi, na kuchagua kikomo cha idadi ya tiketi zinazoonyeshwa. Pia inawezekana kuseti nywila mpya.

Chapter 4. Utawala

1. The Administration Area of OTRS

1.1. Misingi

Mipangilio ifuatayo ya usanidi wa mfumo inapatikana kwa wasimamizi wa OTRS kwa ku-fikia kurasa ya Msimamizi ya kiolesura cha tovuti cha OTRS - kuongeza mawakala, wateja na foleni, tiketi na mipangilio ya barua, kusakinisha vifurushi vya ziada kama FAQ na ITSM na nyingine nyingi.

Agents who are members of the *admin* group can access the Admin area by clicking the *Admin* link in the navigation bar (see figure below). Agents without sufficiently elevated access rights will not be able to access this link.

Figure 4.1. OTRS Administration Overview Screen

Agent Management Agents Create and manage agents. Agents <-> Groups Link agents to groups. Agents <-> Roles Link agents to roles. Groups Create and manage groups. Roles Create and manage roles. Roles <-> Groups Link roles to groups.	Customer Management Customer User Create and manage customer users. Customer User <-> Groups Link customer user to groups. Customers Create and manage customers. Customer User <-> Services Link customer user to services.	Email Settings PostMaster Mail Accounts Manage POP3 or IMAP accounts to fetch email from. PostMaster Filters Filter incoming emails. Email Addresses Set sender email addresses for this system. S/MIME Certificates Manage S/MIME certificates for email encryption. PGP Keys Manage PGP keys for email encryption.
Queue Settings Queues Create and manage queues. Templates <-> Queues Link templates to queues. Auto Responses <-> Queues Link queues to auto responses. Attachments <-> Templates Link attachments to templates. Signatures Create and manage signatures. Templates Create and manage templates. Auto Responses Create and manage responses that are automatically sent. Attachments Create and manage attachments. Salutations Create and manage salutations.	Ticket Settings Ticket Notifications Create and manage ticket notifications. Access Control Lists (ACL) Configure and manage ACLs. Priorities Create and manage ticket priorities. Dynamic Fields Create and manage dynamic fields. Types Create and manage ticket types. States Create and manage ticket states. Services Create and manage services. Service Level Agreements Create and manage Service Level Agreements (SLAs).	System Administration Online Admin Manual GenericAgent Manage tasks triggered by event or time based execution. OTRS Business Solution™ Deploy and manage OTRS Business Solution™. Cloud Services Manage OTRS Group cloud services. Session Management Manage existing sessions. Performance Log View performance benchmark results. SQL Box Execute SQL statements. SysConfig Edit the system configuration settings. Package Manager Update and extend your system with software packages. System Registration Manage system registration. Support Data Collector Manage support data. Admin Notification Send notifications to users. System Maintenance Schedule a maintenance period. System Log View system log messages. Process Management Configure Processes. Web Services Create and manage web services. Chat Channel Create and manage chat channels.

1.2. Mawakala, Makundi na Majukumu

1.2.1. Mawakala

By clicking the link *Agents*, you get access to the agent management screen of OTRS (see figure below). Administrators can add, change or deactivate agent accounts. Furthermore they can also manage agent preferences, including the language and notification settings for the individual agent's interface.

Note

Akaunti ya wakala wa OTRS inaweza kulemazwa lakini sio kufutwa. Kulemaza ku-nafanywa kwa kuseti alma ya Halali kuwa *batili* au *batili-kwa muda*.

Figure 4.2. Usimamizi wa wakala

Agent Management

Actions

Wildcards like "*" are allowed.

Hint

Agents will be needed to handle tickets.
 Attention: Don't forget to add a new agent to groups and/or roles!

USERNAME	NAME	EMAIL	LAST LOGIN	VALIDITY	CHANGED	CREATED
carlos.garcia	Carlos Garcia	carlos.garcia@mycompany...	11/26/2015 12:10	valid	11/25/2015 13:25	11/25/2015 13:25
carlos.rodriguez	Carlos Rodriguez	carlos.rodriguez@mycomp...		valid	11/25/2015 13:25	11/25/2015 13:25
dennis.schmelter	Dennis Schmelter	dennis.schmelter@mycomp...		valid	11/25/2015 13:25	11/25/2015 13:25
dominik.klein	Dominik Klein	dominik.klein@mycompany...		valid	11/25/2015 13:25	11/25/2015 13:25
jan.steinweg	Jan Steinweg	jan.steinweg@mycompany.com		valid	11/25/2015 13:25	11/25/2015 13:25
jens.pfeifer	Jens Pfeifer	jens.pfeifer@mycompany.com		valid	11/25/2015 13:25	11/25/2015 13:25
manuel.hecht	Manuel Hecht	manuel.hecht@mycompany.com		valid	11/25/2015 13:25	11/25/2015 13:25
marc.bonsels	Marc Bonsels	marc.bonsels@mycompany.com		valid	11/25/2015 13:25	11/25/2015 13:25
marco.buchholz	Marco Buchholz	marco.buchholz@mycompany...		valid	11/25/2015 13:25	11/25/2015 13:25
martin.gruner	Martin Gruner	martin.gruner@mycompany...		valid	11/25/2015 13:25	11/25/2015 13:25
oliver.rottges	Oliver Rottges	oliver.rottges@mycompan...		valid	11/25/2015 13:25	11/25/2015 13:25
patrick.brischler	Patrick Brischler	patrick.brischler@mycom...		valid	11/25/2015 13:25	11/25/2015 13:25
root@localhost	Admin OTRS	root@localhost	11/26/2015 11:58	valid	11/25/2015 13:25	11/25/2015 13:25
udo.bretz	Udo Bretz	udo.bretz@mycompany.com		valid	11/25/2015 13:25	11/25/2015 13:25

Kusajili wakala, bofya kwenye kitufe cha "Ongeza wakala", ingiza data inayotakiwa na bonyeza kitufe cha Wasilisha upande wa chini wa skrini, kama ilivyoonyeshwa kwenye Kielelezo.

Figure 4.3. Adding a new agent

Agent Management

Actions

Hint

Agents will be needed to handle tickets.
 Attention: Don't forget to add a new agent to groups and/or roles!

Add Agent

Title:

★ Firstname:

★ Lastname:

★ Username:

Password:

Will be auto-generated if left empty.

★ Email:

Mobile:

Validity:

Google Authenticator:

Enter your shared secret to enable two factor authentication.

Language:

Language

Out Of Office Time: On Off

Start: /

End: /

Skin:

Baada ya akaunti mpya ya wakala kutengenezwa, unatakiwa kumfanya wakala mwanachama wa kundi moja au zaidi au majukumu. Taarifa kuhusu majukumu au makundi zinapatikana katika vifunguMakundi na Majukumu vya sura hii.

1.2.2. Makundi

Every agent's account should belong to at least one group or role. In a brand new installation, there are three pre-defined groups available, as shown in Table 4-1.

Table 4.1. Makundi chaguo-msingi yanayopatikana katika usakinishaji mpya wa OTRS

Kundi	Maelezo
msimaizi	Ruhusa ya kufanya kazi za usimamizi wa mfumo.

Kundi	Maelezo
takwimu	Fuzu kufikia kwenye moduli ya takwimu ya OTRS na kutengeneza takwimu.
watumiaji	Mawakala wapo kwenye hili kundi, wakiwa na ruhusa za kusoma na kuandika. Wanaweza kufikia programu-tumizi zote za mfumo wa tiketi.

Note

Katika usakinishaji mpya wa OTRS, kundi la *watumiaji* halina mwanachama yoyote mwanzoni. Wakala 'root@localhost' ni mwanachama wa makundi msimaizi na takwimu kwa chaguo-msingi.

You can access the group management page (see figure below) by clicking the *Groups* link in the admin area.

Figure 4.4. Usimamizi wa kundi

Group Management

Actions

[+ Add group](#)

Hint

The admin group is to get in the admin area and the stats group to get stats area.

Create new groups to handle access permissions for different groups of agent (e. g. purchasing department, support department, sales department, ...).

It's useful for ASP solutions.

List

NAME	COMMENT	VALIDITY	CHANGED	CREATED
admin	Group of all administrators.	valid	11/19/2015 13:25	11/19/2015 13:25
stats	Group for statistics access.	valid	11/19/2015 13:25	11/19/2015 13:25
users	Group for default access.	valid	11/19/2015 13:25	11/19/2015 13:25

Note

Kama ilivyo kwa mawakala, kundi la OTRS linaweza kulemazwa lakini si kufutwa. Kulemazwa kunafanywa kwa kuseti alama Halali kuwa *batili* au *batili-kwa muda*.

To add an agent to a group, or to change the agents who belong to a group, you can use the link *Agents <-> Groups* from the Admin page (see figure below).

Figure 4.5. Agent <-> group management

Manage Agent-Group Relations

Actions

[+ Add agent](#)

[+ Add group](#)

Filter for Agents

Just start typing to filter...

Filter for Groups

Just start typing to filter...

Overview

AGENTS

- carlos.garcia (Carlos Garcia)
- carlos.rodriguez (Carlos Rodríguez)
- dennis.schmelter (Dennis Schmelter)
- dominik.klein (Dominik Klein)
- jan.steinweg (Jan Steinweg)
- jens.pfeifer (Jens Pfeifer)
- manuel.hecht (Manuel Hecht)
- marc.bonsels (Marc Bonsels)
- marco.buchholz (Marco Buchholz)
- martin.gruner (Martin Gruner)
- oliver.rottges (Oliver Rottges)
- patrick.brischler (Patrick Brischler)
- udo.bretz (Udo Bretz)

GROUPS

- admin
- stats
- users

An overview of all groups and agents in the system is displayed on this page. You can also use the available filters to find a specific entity. If you want to change the groups that an agent is a member of, just click on the agent's name (see figure below). To change the agents associated with a group, just click on the group you want to edit (see figure below).

Figure 4.6. Change the groups an agent belongs to

Manage Agent-Group Relations

Actions

Filter

Change Group Relations for Agent Dominik Klein (dominik.klein)

GROUP	<input type="checkbox"/> CHAT_OBSERVER	<input type="checkbox"/> CHAT_PARTICIPANT	<input type="checkbox"/> CHAT_OWNER	<input type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER
admin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
stats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

or

Reference

ro
Read only access to the ticket in this group/queue.

move_into
Permissions to move tickets into this group/queue.

create
Permissions to create tickets in this group/queue.

note
Permissions to add notes to tickets in this group/queue.

owner
Permissions to change the owner of tickets in this group/queue.

priority
Permissions to change the ticket priority in this group/queue.

rw
Full read and write access to the tickets in this group/queue.

Figure 4.7. Change the agents that belong to a specific group

Manage Agent-Group Relations

Actions

Filter

Change Agent Relations for Group users

AGENT	<input type="checkbox"/> CHAT_OBSERVER	<input type="checkbox"/> CHAT_PARTICIPANT	<input type="checkbox"/> CHAT_OWNER	<input type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER	<input type="checkbox"/> PRIORITY	<input type="checkbox"/> RW
carlos.garcia (Carlos Garcia)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
carlos.rodriguez (Carlos Rodriguez)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dennis.schmelter (Dennis Schmelter)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dominik.klein (Dominik Klein)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
jan.steinweg (Jan Steinweg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
jens.pfeifer (Jens Pfeifer)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
manuel.hecht (Manuel Hecht)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
marc.bonsels (Marc Bonsels)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
marco.buchholz (Marco Buchholz)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
martin.gruner (Martin Gruner)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
oliver.rottges (Oliver Rottges)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
patrick.brischler (Patrick Brischler)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
root@localhost (Admin OTRS)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
udo.bretz (Udo Bretz)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

or

Each group has a set of rights associated with it, and each group member (agent) may have some combination of these rights for themselves. A list of the permissions / rights is shown in Table 4-2.

Table 4.2. Rights associated with OTRS groups

Haki	Maelezo
chat_observer	Agents may take part silently in a chat (available in OTRS Business Solution™).
chat_participant	Agents may normally participate in a chat (available in OTRS Business Solution™).
chat_owner	Agents have full rights for a chat and can accept chat requests (available in OTRS Business Solution™).
ro	Uwezo wa kusoma tiketi, maingizo na foleni tu kwa hili kundi.

Haki	Maelezo
hamia kwenye	Haki ya kuhamisha tiketi au maingizo katikati ya foleni au maeneo yaliyo kwenye hili kundi.
tengeneza	Haki ya kutengeneza tiketi au maingizo kwenye foleni au maeneo ya hili kundi.
mmiliki	Haki za kusasisha mmiliki wa tiketi au maingizo katika foleni au maeneo ambayo yapo kwenye hili kundi.
kipaumbele	Haki ya kubadilisha kipaumbele cha tiketi au maingizo au maeneo yaliyo kwenye hili kundi.
soma andikwa	Haki kamili ya kusoma na kuandika kwa tiketi au maingizo ya foleni au maeneo yaliyopo kwenye hili kundi.

Note

Kwa chaguo-msingi, MuonekanoWaFoleni unaorodhesha tiketi katika foleni pale wakala ana ufikivu wa *kusoma na kuandika*, ikimaanisha tiketi ambazo wakala anahitaji kuzifanyia kazi. Ukitaka kubadilisha hii tabia, unaweza kuseti Tiketi::Mazingirayambe::WakalaTiketiFoleni###OnaTiketiZoteZinazowezezana kwa *Ndiyo*.

Sio ruhusa zote zinazopatikana zinaonyeshwa kwa chaguo-msingi. Hizi ruhusa za ziada zinaweza kuongezwa.

Table 4.3. Makundi ya ruhusa ya ziada

Haki	Maelezo
takwimu	Kupewa ruhusa ya kurasa ya takwimu.
dunda	Haki ya kudundisha ujumbe wa barua pepe (na kitufe cha kudunda katika Kuzatiketi).
tunga	Haki ya ku tunga jibu la tiketi.
mteja	Haki ya kubadilisha mteja wa tiketi.
tuma mbele	Haki ya kutuma mbele messeji (kwa kitufe cha kutuma mbele).
inasubiri	Haki ya kuseti tiketi isubirie.
simu	Haki ya kuongeza kupiga simu kwa tiketi.
wajibika	Haki ya kubadilisha wakala anayewajibika kwa tiketi.

Note

Hizi ruhusa zinaweza kuongezwa kwa kubadilisha Mfumo::Ruhusa

1.2.3. Jukumu

Majukumu ni kiengele chenye nguvu cha kusimamia haki za ufikivu za mawakala wengi katika njia rahisi na ya haraka. Zina manufaa zaidi kwa mifumo mikubwa na changamano yenye mawakala wengi, makundi na foleni. Mfano chini unaelezea wakati gani zitumike.

Tuseme una mfumo wenye mawakala 100, 90 kati yao na wana ufikivu kwenye foleni moja itwayo "msaada" ambapo maombi yote ya msaada yanashughulikiwa. Foleni "msaa-

da" ina foleni ndogo nyingi ndani yake. Mawakala wengine 10 wana ruhusa ya kufikia foleni zote za mfumo. Hawa mawakala 10 wanatoa tiketi, wanaangalia foleni mbichi na kuhamisha ujumbe taka kwenda kwenye foleni "taka".

Kampuni sasa inafungua idara mpya inayouza bidhaa. Maombi na mapokezi ya oda, uthibitishaji wa oda, bili, na kadh. lazima zichakatishwe, na baadhi ya mawakala wa kampuni wanatakiwa kufanya hivi kwa kutumia OTRS. Mawakala tofauti wanatakiwa waweze kufikia kwenye foleni mpya ambazo lazima zitengenezwe.

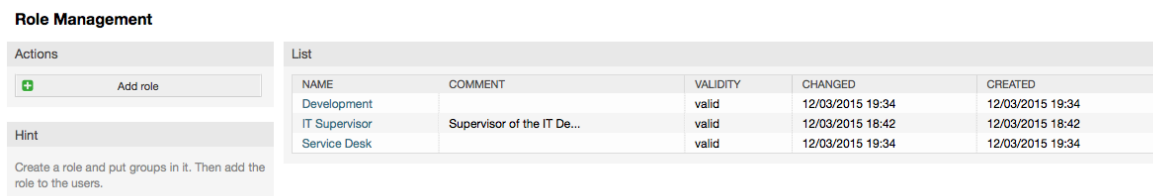
Kwa sababu itatumia muda mwingi kubadilisha haki za ufikivu za kila wakala mmoja kwa mikono, majukumu ambayo yanafafanua ngazi tofauti za ufikivu yanaweza kutengenezwa. Kisha mawakala wanaweza kuongezwa kwenye jukumu moja au zaidi, na haki zao za ufikivu zitabadilika kiotomatiki. Kama akaunti mpya ya wakala itatengenezwa, pia inawezekana kuongeza akaunti hii kwa jukumu moja au zaidi.

Note

Majukumu ni muhimu ukihusika na mashirika makubwa na ukisimamia usakinishaji mkubwa wa OTRS. Umakini mkubwa unashauriwa. Kuchanganya miunganiko ya Wakala kwa Kundi na Wakala kwa Jukumu unaweza kutengeneza mpango mgumu wa kudhibiti ufikivu, ambao ni mgumu kuelewa na kudumisha. Kama ukiamua kutumia majukumu tu na kulemaza Mawakala <-> chaguo la Makundi kwenye eneo la Msimamizi, unaweza kufanya hiyo kwa kurekebisha Mazingira ya mbele::Moduli###MsimamiziMtumiajiKundi katika SysConfig. Fahamu hii haitaondoa kazi zilizopo za Mawakala kwa Makundi!

You can access the role management section (see figure below) by clicking the *Roles* link on the Admin page.

Figure 4.8. Usimamizi wa jukumu



Role Management

Actions:

Hint: Create a role and put groups in it. Then add the role to the users.

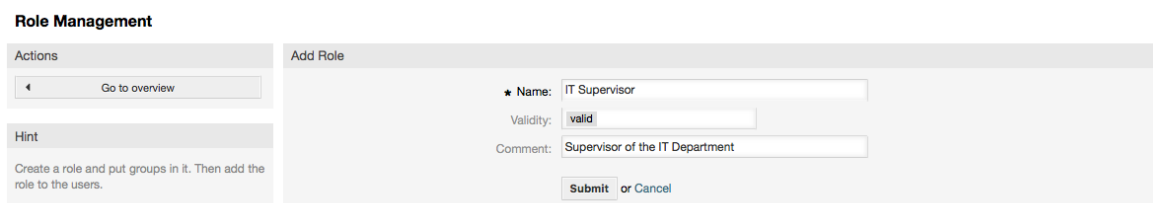
NAME	COMMENT	VALIDITY	CHANGED	CREATED
Development		valid	12/03/2015 19:34	12/03/2015 19:34
IT Supervisor	Supervisor of the IT De...	valid	12/03/2015 18:42	12/03/2015 18:42
Service Desk		valid	12/03/2015 19:34	12/03/2015 19:34

Note

Kama ilivyo kwa wakala na makundi, majukumu yakishatengenezwa yanaweza kulemazwa na si kufutwa. Kulemaza, seti chaguo Halali kuwa *batili* au *batili-kwa muda*.

An overview of all roles in the system is displayed. To edit a role's settings, click on the role's name. In a fresh new OTRS installation, there are no roles defined by default. To register one, click on the "Add role" button, provide the needed data and submit it (see figure below).

Figure 4.9. Adding a new role



Role Management

Actions:

Hint: Create a role and put groups in it. Then add the role to the users.

Add Role

★ Name:

Validity:

Comment:

or

To get an overview of all roles and agents in the system, click on the link Roles <-> Agents on the Admin page. You can also use filters to find a specific element. If you want to change the roles associated with an agent, just click on the agent's name (see figure below). To change the agents associated with a role, click on the role you want to edit (see figure below).

Figure 4.10. Change the roles associated with an agent

Manage Role-Agent Relations

Actions: [Go to overview](#)

Filter:

Change Role Relations for Agent Jan Steinweg (jan.steinweg)

ROLE	<input type="checkbox"/> ACTIVE
Development	<input checked="" type="checkbox"/>
IT Supervisor	<input type="checkbox"/>
Service Desk	<input type="checkbox"/>

or

Figure 4.11. Change the agents associated with a specific role

Manage Role-Agent Relations

Actions: [Go to overview](#)

Filter:

Change Agent Relations for Role Development

AGENT	<input checked="" type="checkbox"/> ACTIVE
carlos.garcia (Carlos Garcia)	<input checked="" type="checkbox"/>
carlos.rodriguez (Carlos Rodríguez)	<input checked="" type="checkbox"/>
dennis.schmelter (Dennis Schmelter)	<input checked="" type="checkbox"/>
dominik.klein (Dominik Klein)	<input checked="" type="checkbox"/>
jan.steinweg (Jan Steinweg)	<input checked="" type="checkbox"/>
jens.pfeifer (Jens Pfeifer)	<input checked="" type="checkbox"/>
manuel.hecht (Manuel Hecht)	<input checked="" type="checkbox"/>
marc.bonsels (Marc Bonsels)	<input checked="" type="checkbox"/>
marco.buchholz (Marco Buchholz)	<input checked="" type="checkbox"/>
martin.gruner (Martin Gruner)	<input checked="" type="checkbox"/>
oliver.rottgies (Oliver Rottgies)	<input checked="" type="checkbox"/>
patrick.brischler (Patrick Brischler)	<input checked="" type="checkbox"/>
udo.bretz (Udo Bretz)	<input checked="" type="checkbox"/>

or

Kupata mapitio ya majukumu yote na makundi kwenye mfumo, bofya kwenye Majukumu <-> Makundi kwenye ukurasa wa Msimamizi. Utaona skrini inayofanana na iliyoonyeshwa kwenye Kielelezo. Unaweza pia kutumia vichujio kutafuta chombo fulani.

Figure 4.12. Manage roles-groups relations

Manage Role-Group Relations

Filter for Roles:

Filter for Groups:

Overview

ROLES	GROUPS
Development	admin
IT Supervisor	stats
Service Desk	users

To define the different access rights for a role, click on the name of a role or a group (see below the Figures 4.13 and 4.14, respectively).

Figure 4.13. Change group relations for a role

Manage Role-Group Relations

Change Group Relations for Role Service Desk

GROUP	<input type="checkbox"/> CHAT_OBSERVER	<input type="checkbox"/> CHAT_PARTICIPANT	<input type="checkbox"/> CHAT_OWNER	<input type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER	<input type="checkbox"/> PRIORITY
admin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
stats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

or

Reference

ro
Read only access to the ticket in this group/queue.

move_into
Permissions to move tickets into this group/queue.

create
Permissions to create tickets in this group/queue.

note
Permissions to add notes to tickets in this group/queue.

owner
Permissions to change the owner of tickets in this group/queue.

priority
Permissions to change the ticket priority in this group/queue.

rw
Full read and write access to the tickets in this group/queue.

Figure 4.14. Change role relations for a group

Manage Role-Group Relations

Change Role Relations for Group stats

ROLE	<input type="checkbox"/> CHAT_OBSERVER	<input type="checkbox"/> CHAT_PARTICIPANT	<input type="checkbox"/> CHAT_OWNER	<input type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER	<input type="checkbox"/> PRIORITY
Development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Supervisor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Service Desk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

or

Reference

ro
Read only access to the ticket in this group/queue.

move_into
Permissions to move tickets into this group/queue.

create
Permissions to create tickets in this group/queue.

note
Permissions to add notes to tickets in this group/queue.

owner
Permissions to change the owner of tickets in this group/queue.

priority
Permissions to change the ticket priority in this group/queue.

rw
Full read and write access to the tickets in this group/queue.

1.3. Wateja na Makundi ya Wateja

1.3.1. Wateja

OTRS supports different types of users. Using the link "Customers" (via the navigation bar, or the Admin page), you can manage the accounts of your customers (see figure below), who can log into the system via the Customers interface (customer.pl). Through this interface, your customers can not only create tickets but also review their past tickets for new updates. It is important to know that a customer is needed for the ticket history in the system.

Figure 4.15. Usimamizi wa Mteja

Customer User Management

Actions

Wildcards like "*" are allowed.

Q

Hint

Customer user are needed to have a customer history and to login via customer panel.

List

USERNAME	NAME	EMAIL	CUSTOMERID	LAST LOGIN	VALIDITY
han.solo	Mr. Han Solo	han.solo@testcustomer.com	SWVII		valid
kylo.ren	Mr. Kylo Ren	kylo.ren@testcustomer.com	SWVII		valid
luke.skywalker	Mr. Luke Skywalker	luke.skywalker@testcustomer.com	SWVII		valid
poe.dameron	Mr. Poe Dameron	poe.dameron@testcustomer.com	SWVII		valid

Unaweza kutafuta mteja aliyesajiliwa, au kuhariri miangilio yake kwa kubofya jina lake. Pia una uwezo wa kubadilisha mazingira ya nyuma ya mteja, kwa maelezo zaidi tafadhali rejea kwenye sura kuhusu mazingira ya nyuma ya nje.

To create a new customer account, click on the "Add customer" button (see figure below). Some of the fields are mandatory, i.e., they have to contain values, so if you leave one of those empty, it will be highlighted in red.

Figure 4.16. Adding a customer

Customer User Management

Actions

Hint

Customer user are needed to have a customer history and to login via customer panel.

Add Customer User

Title:

★ Firstname:

★ Lastname:

★ Username:

Password:

★ Email:

★ CustomerID:

Phone:

Fax:

Mobile:

Street:

Zip:

City:

Country:

Comment:

★ Valid:

Interface language:

Wateja wanaweza kufikia mfumo kwa kutoa jina la mtumiaji na nywila. Kitambulisho cha Mteja kinahitajika na mfumo kutambua mtumiaji na tiketi zinazohusika. Kwa kuwa anwani ya barua pepe ni ya kipekee, inaweza kutumika kama kitambulisho.

Note

Kama ilivyo kwa mawakala, makundi na majukumu, wateja hawawezi kufutwa kwenye mfumo, wanaweza kulemazwa kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

1.3.2. Makundi ya Wateja

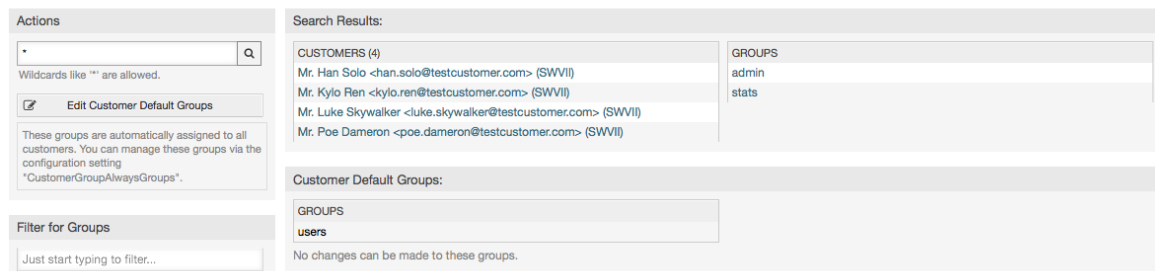
Wateja watumiaji wanaweza pia kuongezwa kwenye kundi, ambayo itakuwa na manufaa kama ukitaka kuongeza wateja wa kampuni moja wenye ufikivu kwa foleni moja au zaidi. Kwanza tengeneza kundi ambalo wateja wako watakuwa wanachama, kupitia Moduli ya kusimamia kundi. Kisha ongeza foleni na chagua kundi jipya la foleni.

Hatua inayofwata ni kuamilisha msaada wa kundi la mteja. Hii inaweza kufanywa na parameta ya usanidi MsaadaKundiLaMteja, kutoka kwenye chaguo la Msimamizi la SysConfig. Kutumia parameta MtejaKundiDaimaMakundi, unaweza kubainisha makundi chaguo-msingi kwa mteja mpya aliyeongezwa, ili kila akaunti mpya iongezwe kiotomatiki kwenye haya makundi.

Through the link "Customers <-> Groups" you can manage which customer shall belong to the different groups (see figure below).

Figure 4.17. Customer-Group relations management

Manage Customer-Group Relations



Actions

Wildcards like "*" are allowed.

[Edit Customer Default Groups](#)

These groups are automatically assigned to all customers. You can manage these groups via the configuration setting "CustomerGroupAlwaysGroups".

Filter for Groups

Just start typing to filter...

Search Results:

CUSTOMERS (4)

Mr. Han Solo <han.solo@testcustomer.com> (SWVII)
Mr. Kylo Ren <kylo.ren@testcustomer.com> (SWVII)
Mr. Luke Skywalker <luke.skywalker@testcustomer.com> (SWVII)
Mr. Poe Dameron <poe.dameron@testcustomer.com> (SWVII)

GROUPS

admin
stats

Customer Default Groups:

GROUPS

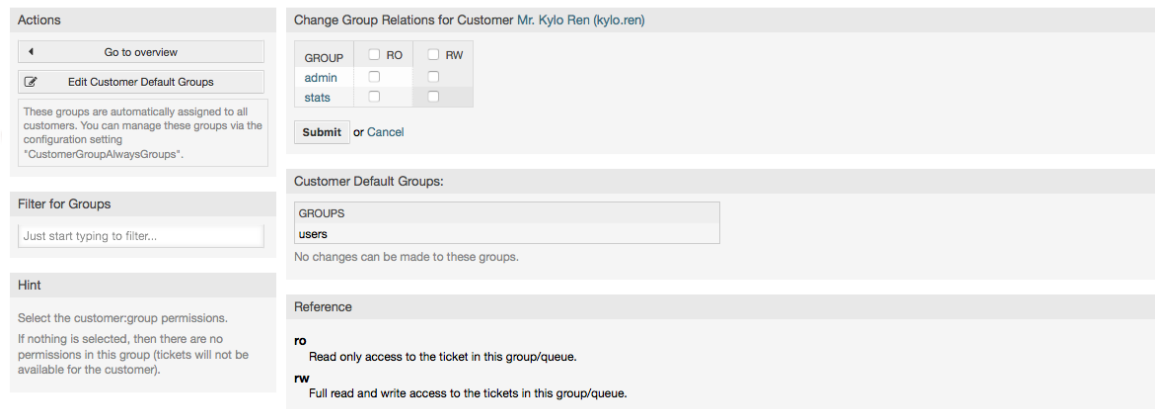
users

No changes can be made to these groups.

To define the different groups a customer should be part of and vice versa, click on the corresponding customer username or group (see below the Figures 4.18 and 4.19, respectively).

Figure 4.18. Badilisha mahusiano ya Makundi kwa Mteja

Manage Customer-Group Relations



Actions

[Go to overview](#)

[Edit Customer Default Groups](#)

These groups are automatically assigned to all customers. You can manage these groups via the configuration setting "CustomerGroupAlwaysGroups".

Filter for Groups

Just start typing to filter...

Hint

Select the customer;group permissions.
If nothing is selected, then there are no permissions in this group (tickets will not be available for the customer).

Change Group Relations for Customer Mr. Kylo Ren (kylo.ren)

GROUP	<input type="checkbox"/> RO	<input type="checkbox"/> RW
admin	<input type="checkbox"/>	<input type="checkbox"/>
stats	<input type="checkbox"/>	<input type="checkbox"/>

[Submit](#) or [Cancel](#)

Customer Default Groups:

GROUPS

users

No changes can be made to these groups.

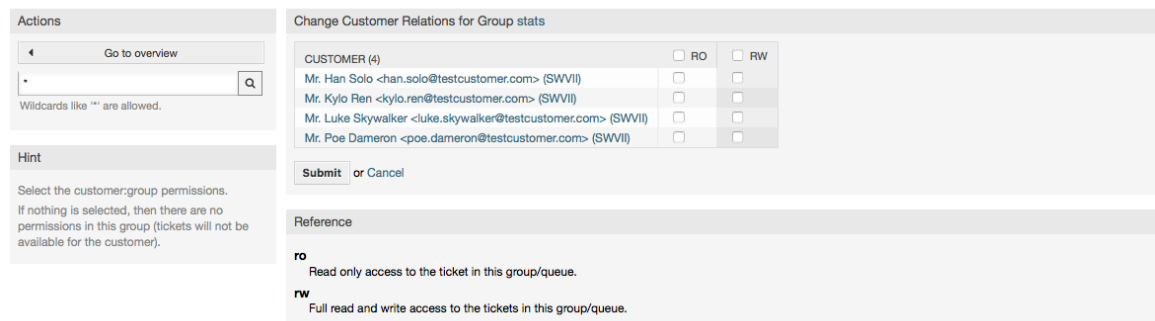
Reference

ro
Read only access to the ticket in this group/queue.

rw
Full read and write access to the tickets in this group/queue.

Figure 4.19. Badilisha mahusiano ya Mteja kwa Kundi

Manage Customer-Group Relations



Actions

[Go to overview](#)

Wildcards like "*" are allowed.

Hint

Select the customer;group permissions.
If nothing is selected, then there are no permissions in this group (tickets will not be available for the customer).

Change Customer Relations for Group stats

CUSTOMER (4)	<input type="checkbox"/> RO	<input type="checkbox"/> RW
Mr. Han Solo <han.solo@testcustomer.com> (SWVII)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Kylo Ren <kylo.ren@testcustomer.com> (SWVII)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Luke Skywalker <luke.skywalker@testcustomer.com> (SWVII)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Poe Dameron <poe.dameron@testcustomer.com> (SWVII)	<input type="checkbox"/>	<input type="checkbox"/>

[Submit](#) or [Cancel](#)

Reference

ro
Read only access to the ticket in this group/queue.

rw
Full read and write access to the tickets in this group/queue.

1.4. Foleni

Clicking on the link "Queues" of the Admin page, you can manage the queues of your system (see figure below). In a new OTRS installation there are 4 default queues: Raw, Junk, Misc and Postmaster. All incoming messages will be stored in the "Raw" queue if no filter rules are defined. The "Junk" queue can be used to store spam messages.

Figure 4.20. Usimamizi wa foleni

Manage Queues

Actions		List					
<input type="button" value="Add queue"/>		NAME	GROUP	COMMENT	VALIDITY	CHANGED	CREATED
		Junk	users	All junk tickets.	valid	11/19/2015 13:25	11/19/2015 13:25
		Misc	users	All misc tickets.	valid	11/19/2015 13:25	11/19/2015 13:25
		Postmaster	users	Postmaster queue.	valid	11/19/2015 13:25	11/19/2015 13:25
		Raw	users	All default incoming ti...	valid	11/19/2015 13:25	11/19/2015 13:25

Here you can add queues (see figure below) and modify them. You can specify the group that should use the queue. You can also set the queue as a sub-queue of an existing queue.

Figure 4.21. Adding a new queue

Manage Queues

Add Queue

★ Name:
 Sub-queue of:
 ★ Group:
 Unlock timeout minutes:
0 = no unlock - 24 hours = 1440 minutes - Only business hours are counted.
 If an agent locks a ticket and does not close it before the unlock timeout has passed, the ticket will unlock and will become available for other agents.

Escalation - first response time (minutes): (Notify by)
0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
 If there is not added a customer contact, either email-external or phone, to a new ticket before the time defined here expires, the ticket is escalated.

Escalation - update time (minutes): (Notify by)
0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
 If there is an article added, such as a follow-up via email or the customer portal, the escalation update time is reset. If there is no customer contact, either email-external or phone, added to a ticket before the time defined here expires, the ticket is escalated.

Escalation - solution time (minutes): (Notify by)
0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
 If the ticket is not set to closed before the time defined here expires, the ticket is escalated.

★ Follow up Option:
Specifies if follow up on closed tickets would re-open the ticket, be related or lead to a new ticket

Unaweza kufafanua muda wa mwisho wa kufungua foleni - kama wakala akifunga tiketi na hajaifunga kabla ya muda wa mwisho wa kufungua kuisha, tiketi itafunguliwa kiotomatiki na kufanywa ipatikane kwa mawakala wengine kuifanyia kazi.

Kuna mipamgilio ya muda wa kupanda mitatu inahusishwa katika ngazi ya foleni:

Kupanda - Muda wa kwanza wa kujibu

- Baada ya utengenezaji wa tiketi, kama muda uliofafanuliwa hapa ukiisha bila ya mawasiliano na mteja, ama kwa simu au barua pepe, tiketi inapandishwa.

Kupanda - Rekebisha Muda

- Kama kuna ufwatiliaji wa mteja aidha kwa barua pepe au mlango wa mteja, ambao unarekodiwa kwenye tiketi, usasishaji wa muda wa kupanda unasetiwa upya. Kama hakuna mawasiliano ya mteja kabla muda uliofafanuliwa hapa haujaisha, tiketi inapandishwa.

Kupanda - Muda wa Suluhu

- Kama tiketi haitafungwa kabla ya muda uliofapanuliwa kuisha, tiketi inapandishwa.

Na 'Funga tiketi baada ya ufwatiliaji', unaweza kufafanua kama tiketi isetiwe kuwa 'imefungwa' kwa mtumiaji wa zamani kama tiketi imefungwa na baadaye kufunguliwa upya. Hii inahakikisha ufwatiliaji wa tiketi unachakatishwa na wakala ambaye alishughulikia tiketi mwanzoni.

Parameta ya anwani za mfumo inabainisha anwani za barua pepe ambazo zitatumika kwa ajili ya tiketi zinazotoka za foleni hii. Hakuna uwezekano wa kuhusisha foleni na salamu na saina, kwa majibu ya barua pepe. Kwa taarifa za undani zaidi, tafadhali tembelea vifungu anwani za barua pepe, salamu na saina.

Note

Kama ilivyo kwa mawakala, makundi na wateja, foleni haziwezi kufutwa, zinalemazwa tu, kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

1.5. Salutations, Signatures, Attachments and Templates

1.5.1. Salamu

A salutation is a text module for a template. Salutations can be linked to one or more queues, as described in the section about queues. A salutation is used only if a ticket from a queue the salutation is linked to, is answered. To manage the different salutations of your system, use the "Salutations" link of the admin area (see figure below).

Figure 4.22. Usimamizi wa Salamu

Salutation Management

Actions		List				
<input type="button" value="Add salutation"/>		NAME	COMMENT	VALIDITY	CHANGED	CREATED
		system standard salutation (en)	Standard Salutation.	valid	11/19/2015 13:25	11/19/2015 13:25

Baada ya usanikishaji wa kawaida tayari kuna salamu inapatikana, "salamu ya kawaida ya mfumo (en)".

To create a new salutation, press the button "Add salutation", provide the required data and submit it (see figure below).

Figure 4.25. Adding a new signature

Signature Management

Actions

Add Signature

★ Name:

Signature:

B I U S | **Font** | **Size** | **A** | **I_x** | **Source** | **Ω** | **↻**

It is our pleasure to serve you.

Receive kind greetings,
 <OTRS_RESPONSIBLE_UserFirstname> <OTRS_RESPONSIBLE_UserLastname>

★ Validity:

Comment:

or

Hint

Kama salamu, saini pia zinaweza kuwa na maudhui yanayobadilika, kama jina la kwanza na la mwisho la wakala anayejibu tiketi. Hapa pia vishika nafasi vinaweza kutumika kubadilisha maudhui ya nakala ya saini kwa kila tiketi. Ona sehemu ya chini ya skrini ya saini kwa vishika nafasi vinyoweza kutumika. Kama ukijumuisha kishika nafasi <OTRS_LAST_NAME> katika saini kwa mfano, jina la mwisho la wakala anayejibu tiketi- itabadilisha kishika nafasi

Note

Kama ilivyo kwa salamu, saini pia haziwezi kufutwa, zinalemazwa tu kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

1.5.3. Viambatanisho

Unaweza kuongeza kiambatanisho kimoja au zaidi kwa kiolezo kwa hiari. Kama kiolezo kimechaguliwa, viambatanisho vita ambatanishwa kwenye dirisha la uundaji wa ujumbe. Kama kuna ulazima wakala anaweza kuondoa kiambatanisho kutoka kwenye kiolezo kabla ya kutuma kwenda kwa mteja.

Through the "Attachment" link of the Admin page, you can load the attachments into the database of the system (see figure below).

Figure 4.26. Attachments management

Attachment Management

Actions

List

NAME	FILENAME	COMMENT	VALIDITY	CHANGED	CREATED	DELETE
Sample One	mar.jpg		valid	12/03/2015 18:59	12/03/2015 18:59	<input type="button" value="🗑"/>
Sample Two	download.jpg		valid	12/03/2015 18:59	12/03/2015 18:59	<input type="button" value="🗑"/>

To create a new attachment, press the button "Add attachment", provide the required data and submit it (see figure below).

Figure 4.27. Adding a new attachment

Attachment Management

Actions

Add Attachment

★ Name:

★ Attachment: No file selected.

★ Validity:

Comment:

or

If an attachment is stored it can be linked to one or more templates. Click on the "Attachment <-> Templates" link of the Admin page (see figure below).

Figure 4.28. Kuunganisha Viambatanisho kwa Violezo

Manage Templates <-> Attachments Relations

Filter for Templates

Filter for Attachments

Overview

TEMPLATES	ATTACHMENTS
Answer - A new answer	Sample One (mar.jpg)
Answer - empty answer	Sample Two (download.jpg)
Answer - test answer	
Create - Create one	
Forward - Forward one	
Note - Note one	

To associate different attachments with a specific template and vice versa, click on the corresponding template name or attachment (see below the Figures 4.29 and 4.30, respectively).

Figure 4.29. Badilisha mahusiano ya Kiambatanisho kwa Kiolezo

Manage Templates <-> Attachments Relations

Actions

Filter

Change Attachment Relations for Template Answer - empty answer

ATTACHMENT	ACTIVE
Sample One (mar.jpg)	<input type="checkbox"/>
Sample Two (download.jpg)	<input type="checkbox"/>

or

Figure 4.30. Badilisha mahusiano ya Kiolezo kwa Kiambatanisho

Manage Templates <-> Attachments Relations

Actions

Filter

Change Template Relations for Attachment Sample Two

TEMPLATE	ACTIVE
Answer - A new answer	<input type="checkbox"/>
Answer - empty answer	<input type="checkbox"/>
Answer - test answer	<input type="checkbox"/>
Create - Create one	<input type="checkbox"/>
Forward - Forward one	<input type="checkbox"/>
Note - Note one	<input type="checkbox"/>

or

1.5.4. Violezo

Kuongeza kasi ya mchakato wa tiketi na kufanya muonekano wa majibu kuwa kawaida, unaweza kufananua violezo katika OTRS. Kiolezo kinaweza kuunganishwa na foleni moja au zaidi.

Kuna violezo tofauti vinavyotumika katika pande tofauti za OTRS na zina nia tofauti, ifwatayo ni orodha ya aina za violezo ziwazekano:

- Jibu: Kutumika kama jibu la tiketi
- Tengeneza: Kutumika katika simu au barua pepe mpya
- Tuma mbele: Kutumika kupeleka makala kwa mtu mwengine
- PigaSimu: Kutumika katika skrini ya simu zinazoingia na kutoka

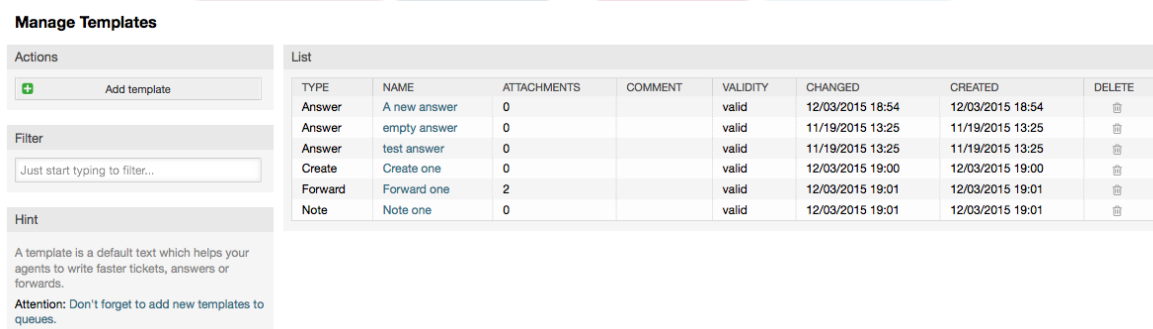
Violezo vya majibu vinapatikana kwa njia mbili, kutoka kwenye skrini ya kukuza tiketi kwenye menyu ya makala, au kwa njia ya haraka: kutoka kwenye skrini kubwa ya mapitio ya tiketi kama Muonekano wa Hali au Muonekano wa Tiketi. Kwa usanikishaji mpya wa OTRS, kiolezo(jibu) "jibu wazi" kina setiwa kama chaguo-msingi kwa kila foleni.

Mara tu violezo vilivyopelekwa mbele kuongezwa na kuwekwa kwenye foleni, kitufe cha "Peleka mbele" katika kuza tiketi (ambayo mara nyingi inatupeleka kwenye skrini ya kupeleka mbele yanakala tupu) kitabadilika kuwa cha kudhibiti uchaguzi, uchaguzi unajazwa na violezo vilivyopelekwa mbele vilivyoongezwa, kwa kuchagua moja ya violezo, skrini ya kupeleka mbele itaonyeshwa ikiwa imejazwa na nakala ya kiolezo na viambatanisho (sawa na kisanduku majibu cha uchaguzi na violezo vya Majibu).

Kutengeneza violezo vya aina Tengeneza na PigaSimu vitafanya boksi la uchaguzi la "Nakala Kiolezo" kuonekana katika skrini husika, kuchagua kiolezo kwa ajili ya orodha itajaza sehemu za "Nakala" na "Kiambatanisho" (kama zinapatikana kwenye kiolezo). Tambua kwamba mabadiliko yoyote ya kabla kwenye Nakala au kiambatanisho yataandikwa upya kwa kuchagua kiolezo.

Clicking the "Templates" link on the Admin page brings you to the Template management screen (see figure below).

Figure 4.31. Template management



TYPE	NAME	ATTACHMENTS	COMMENT	VALIDITY	CHANGED	CREATED	DELETE
Answer	A new answer	0		valid	12/03/2015 18:54	12/03/2015 18:54	
Answer	empty answer	0		valid	11/19/2015 13:25	11/19/2015 13:25	
Answer	test answer	0		valid	11/19/2015 13:25	11/19/2015 13:25	
Create	Create one	0		valid	12/03/2015 19:00	12/03/2015 19:00	
Forward	Forward one	2		valid	12/03/2015 19:01	12/03/2015 19:01	
Note	Note one	0		valid	12/03/2015 19:01	12/03/2015 19:01	

To create a new template, click on the "Add template" button, provide the required data (make sure to select the appropriate template type) and submit it (see figure below).

Figure 4.32. Adding a template

Manage Templates

Actions
 Go to overview

Hint
 A template is a default text which helps your agents to write faster tickets, answers or forwards.
Attention: Don't forget to add new templates to queues.

Add Template

★ Type: Answer
 ★ Name: A new answer

Template:

B I U S | **Format** | **Font** | **Size** | **A** | **A** | **I** | **x** | Source Ω ↻ ↺

The text for this answer . . .

Attachments: -
 ★ Validity: valid
 Comment:

Submit or Cancel

To add/remove templates to one or more queues, click on the "Templates <-> Queues" link on the Admin page (see figure below). You can also use filters to get information regarding a specific entity.

Figure 4.33. Template-Queue relations management

Manage Template-Queue Relations

Filter for Templates
 Just start typing to filter...

Filter for Queues
 Just start typing to filter...

Overview

TEMPLATES	QUEUES
Answer - A new answer	Junk
Answer - empty answer	Misc
Answer - test answer	Postmaster
Create - Create one	Raw
Forward - Forward one	
Note - Note one	

Kufafanua violezo mbali mbali vinavyopatikana kwa foleni na kinyume chake, bofya kwenye kiolezo au foleni husika (ona vielelezo 5.32 na 5.33 chini kwa mtiririko).

Figure 4.34. Badilisha mahusiano ya Foleni kwa Kiolezo

Manage Template-Queue Relations

Actions
 Go to overview

Filter
 Just start typing to filter...

Change Queue Relations for Template Answer - empty answer

QUEUE	ACTIVE
Junk	<input checked="" type="checkbox"/>
Misc	<input checked="" type="checkbox"/>
Postmaster	<input checked="" type="checkbox"/>
Raw	<input checked="" type="checkbox"/>

Submit or Cancel

Figure 4.35. Badilisha mahusiano ya Kiolezo kwa Foleni

Manage Template-Queue Relations

Actions
 Go to overview

Filter
 Just start typing to filter...

Change Template Relations for Queue Junk

TEMPLATE	ACTIVE
Answer - A new answer	<input type="checkbox"/>
Answer - empty answer	<input checked="" type="checkbox"/>
Answer - test answer	<input type="checkbox"/>
Create - Create one	<input type="checkbox"/>
Forward - Forward one	<input type="checkbox"/>
Note - Note one	<input type="checkbox"/>

Submit or Cancel

Wakati wa kuchagua kiolezo, taarifa zaidi zinaweza kuongezwa kwenye nakala ya kiolezo, hii inategemea aina ya kiolezo:

PigaSimu na Tengeneza violezo haiongezi maudhui yoyote kwenye nakala ya kiolezo, bali skrini Mpya ya Barua pepe za Tiketi inaongeza saini iliyogawiwa kwa foleni kwenye kiini cha barua pepe (hii skrini ina boksi lililowekwa pembeni ili kupata taswira ya saini).

Nakala za violezo majibu zikichaguliwa pia zinajumuisha salamu inayohusika na foleni, kisha nakala ya kiolezo, baada ya hapo nukuu ya nakala ya tiketi, na mwisho saini inayohusika na foleni.

Violezo vya kupeleka mbele ni sawa Violezo vya majibu, lakini hazi na sehemu ya salamu.

1.6. Majibu ya otomatiki

OTRS allows you to send automatic responses to customers based on the occurrence of certain events, such as the creation of a ticket in a specific queue, the receipt of a follow-up message in regards to a ticket, the closure or rejection of a ticket, etc. To manage such responses, click the link "Auto responses" on the Admin page (see figure below).

Figure 4.36. Auto response management

Auto Response Management

Actions

[Add auto response](#)

List

NAME	TYPE	COMMENT	VALIDITY	CHANGED	CREATED
default follow-up (after a ticket follow-up has been added)	auto follow up		valid	11/19/2015 13:25	11/19/2015 13:25
default reject (after follow-up and rejected of a closed ticket)	auto reject		valid	11/19/2015 13:25	11/19/2015 13:25
default reject/new ticket created (after closed follow-up with new ticket creation)	auto reply/new ticket		valid	11/19/2015 13:25	11/19/2015 13:25
default reply (after new ticket has been created)	auto reply		valid	11/19/2015 13:25	11/19/2015 13:25

To create an automatic response, click on the button "Add auto response", provide the needed data and submit it (see figure below).

Figure 4.37. Adding an auto response

Auto Response Management

Actions

[Go to overview](#)

★ Name:

★ Subject:

Response:

B I U S [Rich Text Editor Icons]

Format - Font - Size - [Color Picker] [Link Icon] [Text Color] [Source] [Ω] [↻] [↺]

Hello <OTRS_CUSTOMER_REALNAME>

This is an automatic response for let you know your request is being processed.

You will have news in the next 24 hours.

Thank you!

Your OTRS Team

★ Type:

★ Auto response from:

★ Validity:

Comment:

or

Mada na nakala ya majibu otomatiki yanaweza kuzalishwa na vishika nafasi, kama sai-ni na salamu. Kama ukiingiza, kwa mfano, kishika nafasi <OTRS_CUSTOMER_EMAIL[5]> kwenye kiini cha jibu otomatiki, mistari 5 ya kwanza ya barua ya mteja itaingizwa kwenye jibu otomatiki. Utapata undani zaidi kuhusu vishika nafasi halali ambavyo vinaweza kutumika upande wa chini wa skrini iliyoonyeshwa kwenye Kielelezo.

For every automatic answer, you can specify the event that should trigger it. The system events that are available after a default installation are described in the Table 4-4.

Table 4.4. Events for auto responses

Jina	Maelezo
jibu otomatiki	Utengenezaji wa tiketi katika foleni fulani
jibu otomatiki/tiketi mpya	Ufunguzi wa tiketi iliyofungwa, mf. mteja akijibu hiyo tiketi.
ufwatiliaji otomatiki	Upokeaji wa ufwatiliaji wa tiketi.
kukataa kiotomatiki	Ukataaji otomatiki wa tiketi, unafanywa na mfumo.
ondoa kiotomatiki	Ufutaji wa tiketi, unafanywa na mfumo.

Note

Kama ilivyo kwa vyombo vingine vya OTRS, majibu otomatiki pia haiwezi kufutwa, inalemazwa tu kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

To add an auto response to a queue, use the "Auto Response <-> Queues" link on the Admin page (see figure below). All system events are listed for every queue, and an auto answer with the same event can be selected or removed via a listbox.

Figure 4.38. Queue <-> auto response relations management

Manage Queue-Auto Response Relations

Filter for Queues

Overview

QUEUES

- Junk
- Misc
- Postmaster
- Raw
- Support

AUTO RESPONSES

- default follow-up (after a ticket follow-up has been added) (auto follow up)
- default reject (after follow-up and rejected of a closed ticket) (auto reject)
- default reject/new ticket created (after closed follow-up with new ticket creation) (auto reply/new ticket)
- default reply (after new ticket has been created) (auto reply)

To define the different auto responses that will be available for a queue, click on the corresponding queue name (see figure below). It is also possible to edit an existing auto response - to do so, click on the response and edit in the same manner as editing a new auto response.

Figure 4.39. Change auto response relations for a queue

Manage Queue-Auto Response Relations

Filter for Queues

Overview

QUEUES

- Junk
- Misc
- Postmaster
- Raw

AUTO RESPONSES

- default follow-up (after a ticket follow-up has been added) (auto follow up)
- default reject (after follow-up and rejected of a closed ticket) (auto reject)
- default reject/new ticket created (after closed follow-up with new ticket creation) (auto reply/new ticket)
- default reply (after new ticket has been created) (auto reply)

1.7. System Email Addresses

To enable OTRS to send emails, you need a valid email address to be used by the system. OTRS is capable of working with multiple email addresses, since many support installa-

tions need to use more than one. A queue can be linked to many email addresses, and vice versa. The address used for outgoing messages from a queue can be set when the queue is created. Use the "Email Addresses" link from the Admin page to manage all email addresses of the system (see figure below).

Figure 4.40. System email addresses management

System Email Addresses Management

Actions

[Add system address](#)

Hint

All incoming email with this address in To or Cc will be dispatched to the selected queue.

List

EMAIL ADDRESS	DISPLAY NAME	QUEUE	VALIDITY	CHANGED	CREATED
otrs@localhost	OTRS System	Postmaster	valid	11/19/2015 13:25	11/19/2015 13:25
postmaster@mycompany.com	Postmaster	Junk	valid	01/03/2016 19:16	01/03/2016 19:16
support@mycompany.com	Support Team	Junk	valid	01/03/2016 19:15	01/03/2016 19:15

If you create a new mail address (see figure below), you can select the queue or sub queue to be linked with it. This link enables the system to sort incoming messages via the address in the To: field of the mail into the right queue.

Figure 4.41. Adding a system email address

System Email Addresses Management

Actions

[Go to overview](#)

Hint

All incoming email with this address in To or Cc will be dispatched to the selected queue.

Add System Email Address

★ Email address:

★ Display name:

The display name and email address will be shown on mail you send.

★ Queue:

★ Validity:

Comment:

or

Note

Kama ilivyo kwa vyombo vingine vya OTRS, anwani za barua pepe haziwezi kufutwa, zinalemazwa tu kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

1.8. Ticket Notifications


OTRS allows ticket notifications to be sent to agents and customers, based on the occurrence of certain events. Agents can customize their ticket notification settings via the preferences link.


Through the "Ticket Notifications" link on the Admin page, you can manage the ticket notifications of your system (see figure below). OTRS comes with a set of predefined notifications that cover a wide range of use cases.

Figure 4.42. Ticket notification management

Ticket Notification Management

Actions

 Add notification


 Export Notifications

Configuration Import








































Here you can upload a configuration file to import Ticket Notifications to your system. The file needs to be in .yml format as exported by the Ticket Notification module.

No file selected.

Overwrite existing notifications?

 Import Notification configuration

List

NAME	COMMENT	VALIDITY	CHANGED	CREATED	EXPORT	COPY	DELETE
Ticket create notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket escalation notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket escalation warning notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket follow-up notification (locked)		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket follow-up notification (unlocked)		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket lock timeout notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket new note notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket owner update notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket pending reminder notification (locked)		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket pending reminder notification (unlocked)		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket queue update notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket responsible update notification		valid	11/19/2015 13:25	11/19/2015 13:25			
Ticket service update notification		valid	11/19/2015 13:25	11/19/2015 13:25			

You can customize many aspects of the notifications. Click on the notification you want to change, and its content will be loaded for editing (see figure below).

Figure 4.43. Customizing a notification

Edit Notification

★ Name:

Comment:

Show in agent preferences:































Agent preferences tooltip:
 This message will be shown on the agent preferences screen as a tooltip for this notification.










Validity:

- ▶ Events
- ▶ Ticket Filter
- ▶ Article Filter (Only for ArticleCreate and ArticleSend event)
- ▶ Recipients
- ▶ Notification Methods
- ▼ Notification Text
 - ▼ English (United States)

★ Subject:

★ Text:

B **I** **U** **S**
                             

Format - Font - Size -         

Hi <OTRS_NOTIFICATION_RECIPIENT_UserFirstname>,

 ticket [<OTRS_CONFIG_TicketHook><OTRS_TICKET_TicketNumber>] has been created in queue <OTRS_TICKET_Queue>.

 <OTRS_CUSTOMER_REALNAME> wrote:
 <OTRS_CUSTOMER_Body[30]>

You can edit the basic data of this notification such as name and comment, and control if the agents may choose to receive this notification (per transport method). For every

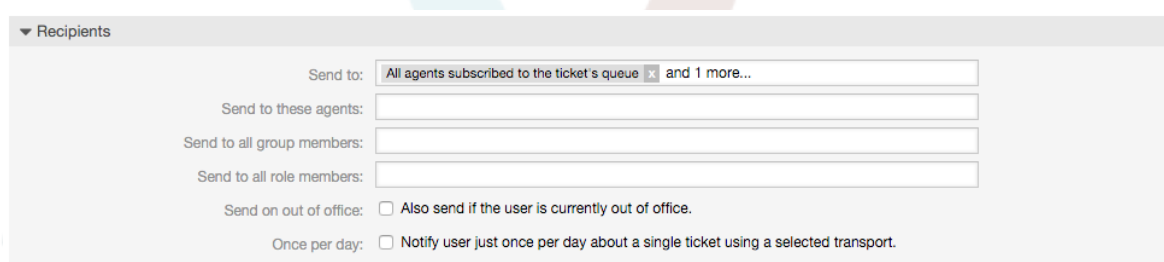
language, a subject and body can be added/edited to configure what will actually be sent as the notification content.

Just as with signatures and salutations, it is possible to dynamically create the content of a notification by using special variables. You can find a list of variables at the bottom of the screen.

You can choose which events should trigger this notification, and limit it to tickets which match certain criteria (ticket and/or article filter). This makes it possible to create different notifications for different queues, priorities or other criteria that might be relevant for your system.

The recipients of the notification can be configured according to different criteria (groups, roles, individual agents etc.). All configured recipients will receive the notification.

Figure 4.44. Customizing a notification's recipients



▼ Recipients

Send to:

Send to these agents:

Send to all group members:

Send to all role members:

Send on out of office: Also send if the user is currently out of office.

Once per day: Notify user just once per day about a single ticket using a selected transport.

Additionally, you can specify if the notification should be sent to agents who are out of office, and limit the sending to once per day and ticket (e. g. pending reminder notification).

Notifications can be sent with different notification methods. The "Email" notification method is available in OTRS Free, with **OTRS Business Solution™** you also get the possibility to store and view the notifications in the database (so that no email client is needed to use OTRS) as well as to send them via SMS (e. g. for very important notifications).

Figure 4.45. Customizing notification methods

▼ Notification Methods

These are the possible methods that can be used to send this notification to each of the recipients. Please select at least one method below.

Email

Enable this notification method:

Active by default in agent preferences:
This is the default value for assigned recipient agents who didn't make a choice for this notification in their preferences yet. If the box is enabled, the notification will be sent to such agents.

Additional recipient email addresses:

Notification article type:
An article will be created if the notification is sent to the customer or an additional email address.

Email template:
Use this template to generate the complete email (only for HTML emails).

Enable email security:
PGP and SMIME not enabled.

Email security level:

If signing key/certificate is missing:

If encryption key/certificate is missing:

Web View

Enable this notification method:

Active by default in agent preferences:
This is the default value for assigned recipient agents who didn't make a choice for this notification in their preferences yet. If the box is enabled, the notification will be sent to such agents.

SMS (Short Message Service)

Enable this notification method:

Active by default in agent preferences:
This is the default value for assigned recipient agents who didn't make a choice for this notification in their preferences yet. If the box is enabled, the notification will be sent to such agents.

Recipient SMS numbers:

1.9. S/MIME

OTRS inaweza kuchakatisha ujumbe unaoingia wa S/MIME uliofanyiwa usimbaji na kusaini barua zinazotoka. Kabla ya kuweza kutumia hiki kipengele, unahitaji kukiamilisha na kubadilisha baadhi ya parameta za usanidi katika SysConfig.

The "S/MIME Certificates" link on the Admin page allows you to manage your S/MIME certificates (see figure below). You can add or remove certificates, and also search through the SMIME data.

Figure 4.46. S/MIME management

S/MIME Management:

Actions

Filter for certificates

Hint

To show certificate details click on a certificate icon.
To manage private certificate relations click on a private key icon.

Results

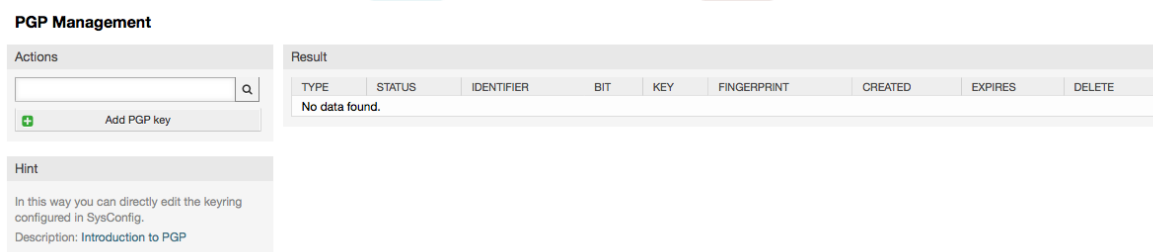
	TYPE	SUBJECT	HASH	FINGERPRINT	CREATE	EXPIRES	DELETE
No data found.							

1.10. PGP

OTRS inashughulikia funguo za PGP, ambazo zinakuruhusu kusimba/kusimbua fiche ujumbe na kusaini ujumbe unaotoka nje. Kabla ya hiki kipengele kutumika, unahitaji kukamilisha na kubadilisha baadhi ya parameta za usanidi katika SysConfig.

Through the "PGP Keys" link on the Admin page, it is possible to manage the key ring of the user who shall be used for PGP with OTRS (see figure below), e.g. the local OTRS user or the web server user. It is possible to add and remove keys and signatures, and you can search through all data in your key ring.

Figure 4.47. PGP management



PGP Management

Actions

Result

TYPE	STATUS	IDENTIFIER	BIT	KEY	FINGERPRINT	CREATED	EXPIRES	DELETE
No data found.								

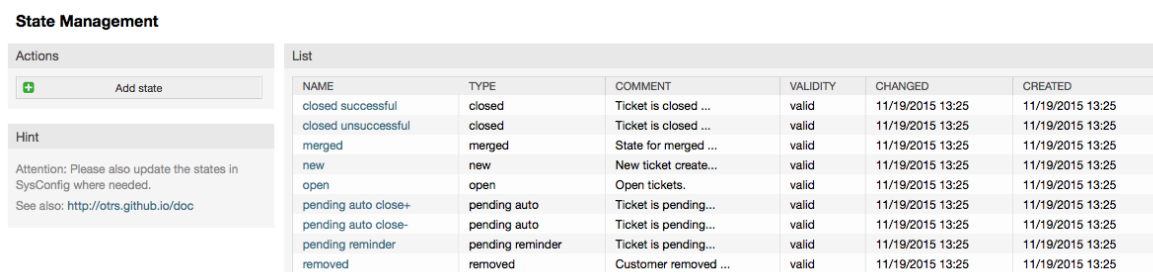
Hint

In this way you can directly edit the keyring configured in SysConfig.
Description: Introduction to PGP

1.11. Hali

Through the "States" link on the Admin page, you can manage the different ticket states you want to use in the system (see figure below).

Figure 4.48. State management



State Management

Actions

List

NAME	TYPE	COMMENT	VALIDITY	CHANGED	CREATED
closed successful	closed	Ticket is closed ...	valid	11/19/2015 13:25	11/19/2015 13:25
closed unsuccessful	closed	Ticket is closed ...	valid	11/19/2015 13:25	11/19/2015 13:25
merged	merged	State for merged ...	valid	11/19/2015 13:25	11/19/2015 13:25
new	new	New ticket create...	valid	11/19/2015 13:25	11/19/2015 13:25
open	open	Open tickets.	valid	11/19/2015 13:25	11/19/2015 13:25
pending auto close+	pending auto	Ticket is pending...	valid	11/19/2015 13:25	11/19/2015 13:25
pending auto close-	pending auto	Ticket is pending...	valid	11/19/2015 13:25	11/19/2015 13:25
pending reminder	pending reminder	Ticket is pending...	valid	11/19/2015 13:25	11/19/2015 13:25
removed	removed	Customer removed ...	valid	11/19/2015 13:25	11/19/2015 13:25

Hint

Attention: Please also update the states in SysConfig where needed.
See also: <http://otrs.github.io/doc>

Baada ya mpangilio wa kawaida, kuna hali zilizofafanuliwa:

- imefungwa kwa mafanikio
- imefungwa pasipo mafanikio
- unganishwa
- mpya
- wazi
- inasubiri kufunga kiotomatiki+
- inasubiri kufunga kiotomatiki-
- kikumbusho kinachosubiri
- ondolewa

Kila hali imeunganishwa na aina, inayohitaji kuwekwa bayana endapo hali mpya itatengenezwa. Kwa kawaida aina za hali ni:

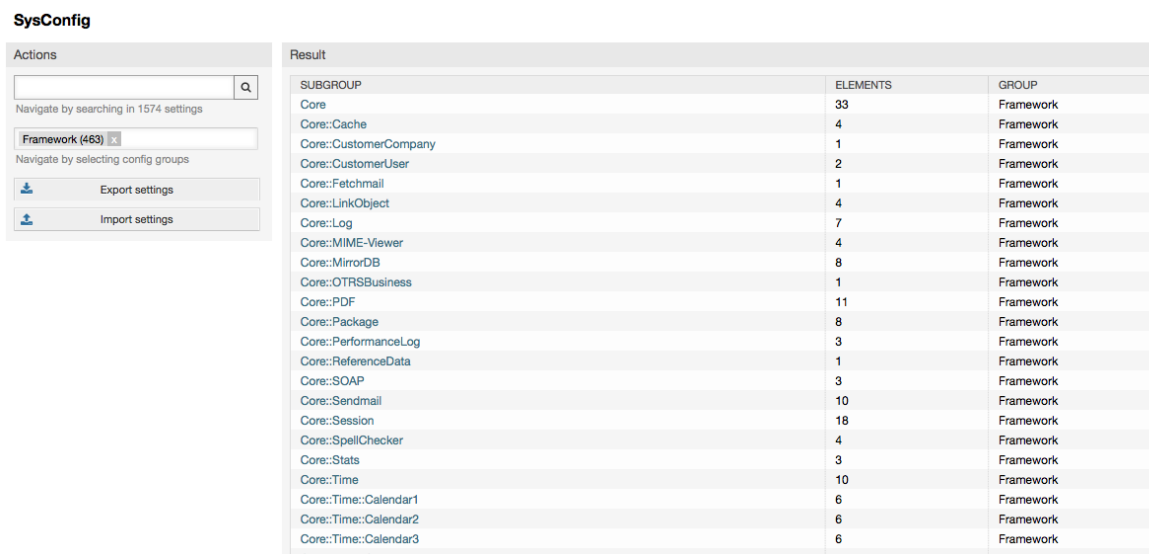
- imefungwa
- unganishwa
- mpya
- wazi
- inasubiri kiotomatiki
- kikumbusho kinachosubiri
- ondolewa

1.12. SysConfig

Kiungo cha SysConfig kinaelekeza kwenye kifungu ambacho machaguo mengi ya usanidi wa OTRS yanadumishwa.

The SysConfig link on the Admin page loads the graphical interface for system configuration (see figure below). You can upload your own configuration files for the system, as well as backup all your current settings into a file. Almost all configuration parameters of the OTRS framework and installed applications can be viewed and changed through this interface. Since all configuration parameters are sorted into groups and sub groups, it is possible to navigate quickly through the vast number of existing parameters. It is also possible to perform a full-text search through all of the configuration parameters.

Figure 4.49. Kiolesura michoro cha usanidi wa mfumo (SysConfig)



SUBGROUP	ELEMENTS	GROUP
Core	33	Framework
Core::Cache	4	Framework
Core::CustomerCompany	1	Framework
Core::CustomerUser	2	Framework
Core::Fetchmail	1	Framework
Core::LinkObject	4	Framework
Core::Log	7	Framework
Core::MIME-Viewer	4	Framework
Core::MirrorDB	8	Framework
Core::OTRSBusiness	1	Framework
Core::PDF	11	Framework
Core::Package	8	Framework
Core::PerformanceLog	3	Framework
Core::ReferenceData	1	Framework
Core::SOAP	3	Framework
Core::Sendmail	10	Framework
Core::Session	18	Framework
Core::SpellChecker	4	Framework
Core::Stats	3	Framework
Core::Time	10	Framework
Core::Time::Calendar1	6	Framework
Core::Time::Calendar2	6	Framework
Core::Time::Calendar3	6	Framework
Core::Time::Calendar4	6	Framework

Kiolesura michoro cha usanidi wa mfumo kinaelezewa kuwa undani zaidi katika sura "Kusanidi mfumo kupitia kiolesura cha tovuti".

1.13. Using Mail Accounts

There are several possibilities to transport new emails into the ticket system. One way is to use a local MTA and the `otrs.PostMaster.pl` script that pipes the mails directly into the system. Another possibility is the use of mail accounts which can be administrated through the web interface. The "PostMaster Mail Accounts" link on the Admin page loads the management console for the mail accounts (see figure below). OTRS supports the mail protocols: POP3, POP3S, IMAP and IMAPS.

Figure 4.50. Usimamizi wa akaunti za barua

Mail Account Management

Actions

+ Add mail account

Hint

All incoming emails with one account will be dispatched in the selected queue!
 If your account is trusted, the already existing X-OTRS header at arrival time (for priority, ...) will be used! PostMaster filter will be used anyway.

List

HOST/USERNAME	TYPE	COMMENT	VALIDITY	CHANGED	CREATED	DELETE	RUN NOW!
No data found.							

Ona kifungu kuhusu Akaunti za Posta za MkuuWaPosta kwa maelezo zaidi.

1.14. Filtering Incoming Email Messages

OTRS has the capability to filter incoming email messages. For example, it is possible to put certain emails automatically into specified queues, or to set a specific state or ticket type for some mails. The filters apply to all incoming mails. You can manage your filters via the link "PostMaster Filter" on the Admin page (see figure below).

Figure 4.51. PostMaster filter management

PostMaster Filter Management

Actions

+ Add filter

Hint

To dispatch or filter incoming emails based on email headers. Matching using Regular Expressions is also possible.
 If you want to match only the email address, use EMAILADDRESS:info@example.com in From, To or Cc.
 If you use Regular Expressions, you also can use the matched value in () as [""] in the 'Set' action.

List

NAME	DELETE
No data found.	

A filter consists of one or more criteria that must be met in order for the defined actions to be executed on the email. Filter criteria may be defined for the headers or the body of an email, e.g. search for specific header entries, such as a sender address, or on strings in the body. Even regular expressions can be used for extended pattern matching. If your filter matches, you can set fields using the X-OTRS headers in the GUI. These values will be applied when creating the ticket or follow-up message in OTRS. The Table 4-5 lists the different X-OTRS headers and their meaning.

Note

You also can use X-OTRS-FollowUp-* headers to set values for follow up emails.

Table 4.5. Kazi za vichwa-vya-X-OTRS tofauti

Jina	Thamani ziwezekanazo	Maelezo
Kipaumbele cha-X-OTRS:	1 chini sana, 2 chini, 3 kawaida, 4 juu, 5 juu sana	Inaseti kipaumbele cha tiketi.
Foleni ya-X-OTRS:	Jina la foleni kwenye mfumo.	Inaseti foleni ambapo tiketi itapangwa. Kama imesetiwa kwenye kichwa cha X-OTRS, sheria zote nyingine zinazojaribu kupanga tiketi kwenye foleni fulani zinapuuzwa. Kama ukitumia

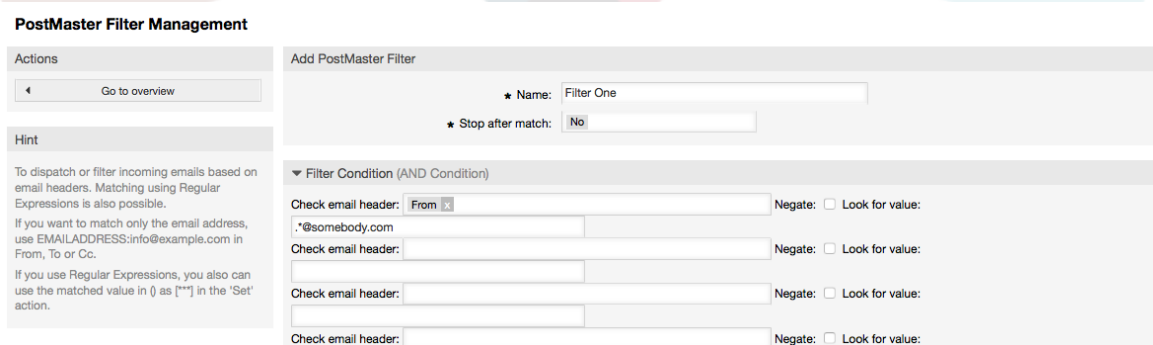
Jina	Thamani ziwezekanazo	Maelezo
		foleni-ndogo, ibainishe kama "Parent::Sub".
Kitasa cha-X-OTRS:	funga, fungua	Inaseti hali ya kitasa cha tiketi.
X-OTRS-Puuza:	Ndio au Kweli	Kama hiki kichwa cha OTRS kimesetiwa kuwa "Ndio", ujumbe unaoingia utapuzwa na hautapokelewa na mfumo.
Hali ya-X-OTRS:	mpya, fungua, imefungwa kwa mafanikio, imefungwa pasipo mafanikio, ...	Inaseti hali inayofwata ya tiketi.
X-OTRS-Hali-Muda Inasubiri:	mf. 2010-11-20 00:00:00	Inaseti muda wa kusubiri wa tiketi (pia lazima utume hali ya kusubiri kupitia X-OTRS-Hali). Unaweza kubainisha tarehe halisi kama "2010-11-20 00:00:00" au tarehe inayohusika, kutegemeana na muda wa kuwasili wa barua pepe. Au tumia mfumo "+ \$Namba\$Kizio", ambapo \$Kizio inaweza kuwa 's' (sekunde), 'm' (dakika), 'h' (masaa) au 'd' (siku). Kizio kimoja tu kinaweza kubainishwa. Mfano wa mipangilio halali: "+50s" (inasubiri kwa sekunde 50), "+30m" (dakika 30), "+12d" (siku 12). Tambua kwamba mipangilio kama "+1d 12h" haiwezekani. Unaweza kubainisha "+36" badala yake.
X-OTRS-Aina:	chaguo-msingi (inategemea mpangilio wako)	Inaseti aina ya tiketi (kama Tketi::Aina imeamilishwa).
X-OTRS-Huduma:	(inategemea na mpangilio wako)	Inaseti huduma ya tiketi (kama Tiketi::Huduma iko hai). Kama ukitaka kuseti huduma-ndogo unatakiwa kuibainisha kama "Parent::Sub".
X-OTRS-SLA:	(inategemea na mpangilio wako)	Inaseti SLA ya tiketi (kama Tiketi::Usaidizi wa huduma umeamilishwa)
X-OTRS-MtejaMtumiaji:	MtejaMtumiaji	Inaseti mteja mtumiaji wa tiketi.
X-OTRS-Nambari ya Mteja:	Nambari ya Mteja	Inaseti kitambulisho cha mteja kwa hii tiketi.
X-OTRS-AinaMtumaji:	wakala, mfumo, mteja	Inaseti aina ya mtumaji wa tiketi.

Jina	Thamani ziwezekanazo	Maelezo
X-OTRS-AinaMakala:	Barua pepe-nje, Barua pepe-ndani, Barua pepe-taari-fa-nje, Barua pepe-taari-fa-ndani, simu, faksi, ujumbe mfupi wa maneno, maombi ya wavuti, notisi-ndani, notisi-nje, notisi-ripoti	Inaseti aina ya makala kwa tiketi inayoingia.
X-OTRS-Sehemulnayobadilika-<Sehemulnayobadilikajina>:	Inategemeana na usanidi wa Sehemu Zinzobadilika (Nakala: Daftari, Tarehe: 2010-11-20 00:00:00, Namba kamili: 1)	Inahifadhi taarifa ya thamani ya ziada kwa ajili ya tiketi kwenye <Sehemulnayobadilikajina> Sehemu Inayobadilika.
X-OTRS-Kitanzi:	Kweli	Kama hiki kichwa cha X-OTRS kimesetiwa, hakuna majibu otomatiki yanayo pokelewa na mtumaji wa ujumbe (ulinzi wa barua kitanzi).

You should specify a name for every filter rule. Filter criteria can be specified in the section "Filter Condition". Choose via the listboxes for "Header 1", "Header 2" and so on for the parts of the messages where you would like to search, and specify on the right side the values you wish to filter on. In the section "Set Email Headers", you can choose the actions that are triggered if the filter rules match. You can select for "Header 1", "Header 2" and so on to select the X-OTRS-Header and set the associated values (see figure below).

Filter rules are evaluated in alphabetical order, and are all executed except if the "Stop after match" setting has been set to "Yes" in one of the rules (in this case evaluation of the remaining filters is canceled).

Figure 4.52. Add a PostMaster filter



PostMaster Filter Management

Actions

Hint
 To dispatch or filter incoming emails based on email headers. Matching using Regular Expressions is also possible.
 If you want to match only the email address, use EMAILADDRESS:info@example.com in From, To or Cc.
 If you use Regular Expressions, you also can use the matched value in () as ["*"] in the 'Set' action.

Add PostMaster Filter

★ Name:

★ Stop after match:

▼ Filter Condition (AND Condition)

Check email header: Negate: Look for value:

Check email header: Negate: Look for value:

Check email header: Negate: Look for value:

Check email header: Negate: Look for value:

Example 4.1. Inapanga barua taka katika foleni maalumu

A useful filter rule would be to let OTRS automatically move mails marked for spam, by using a spam detection tool such as SpamAssassin, into the "Junk" queue. SpamAssassin adds the "X-Spam-Flag" header to every checked mail. When the mail is marked as spam, the Header is set to "Yes". So the filter criteria would be "X-Spam-Flag: Yes". To create a filter rule with this criteria you can insert the name as, for example, "spam-mails". In the section for "Filter Condition", choose "X-Spam-Flag:" for "Header 1" from the listbox. Insert "Yes" as value for this header. Now the filter criteria is specified. To make sure that all spam mails are placed into the "Junk" queue, choose in the section for "Set Email Headers", the "X-OTRS-Queue:" entry for "Header 1". Specify "Junk" as value for this header. Finally add the new filter rule to activate it for new messages in the system.

Kuna moduli za ziada, ambazo zinaweza kutumika kuchuja ujumbe unaoingia kwa umaalumu zaidi. Hizi moduli zinaweza kuwa na manufaa wakati wa kushughulika na mifumo mikubwa na tangamanifu zaidi.

1.15. Executing Automated Jobs with the GenericAgent

KiolesuraChaUjumla ni kifaa cha kutekeleza kazi kiotomatiki. KiolesuraChaUjumla, kwa mfano, kinaweza kufunga au kuhamisha tiketi, kutuma taarifa kwa tiketi zilizopandishwa, na kadh.

Click the link "GenericAgent" on the Admin page (see figure below). A table with all automated jobs in the system is displayed. These jobs can then be edited, run manually or removed entirely.

Figure 4.53. Orodha ya kazi kwa WakalaWaUjumla

Generic Agent

NAME	LAST RUN	VALIDITY	DELETE	RUN NOW!
Job One		valid	Delete	Run this task
Job Three		valid	Delete	Run this task
Job Two		valid	Delete	Run this task

Bofya kitufe cha "Ongeza Kazi" kutengeneza kazi mpya. Kwanza unahitaji kutoa jina. Kisha utaweka bayana jinsi kazi itakavyofanyika: kiotomatiki katika mida iliyopangwa (kama kazi iliyopangwa, moduli hii itafanya kazi kwa tiketi zote zitakazopatikana na kichujio cha tiketi) au kutegemeana na matukio ya tiketi (baada ya tiketi moja tu kubadilishwa, kama itafanana na kichujio cha tiketi). Tambua kwamba kama ukianzisha kazi kwa mikono zinazotegemea matukio kutoka kwenye skrini ya mapitio, zitafanya kazi kwenye tiketi zote zilizopatikana na kichujio cha tiketi.

Figure 4.54. Kutengeneza kazi za WakalaWaUjumla

Generic Agent

Job Settings

★ Job name: Job Four

Validity: Yes

Automatic execution (multiple tickets)

SCHEDULE MINUTES	SCHEDULE HOURS	SCHEDULE DAYS

Currently this generic agent job will not run automatically.
To enable automatic execution select at least one value from minutes, hours and days!

Event based execution (single ticket)

Event Triggers:

TYPE	EVENT	DELETE
Ticket	EscalationResponseTimeNotifyBefore	

Additionally or alternatively to a periodic execution, you can define ticket events that will trigger this job. If a ticket event is fired, the ticket filter will be applied to check if the ticket matches. Only then the job is run on that ticket.

Add Event Trigger: Ticket EscalationResponseTimeNotifyBefore

To add a new event select the event object and event name and click on the "+" button.

Kwa kila kazi, unaweza kuweka bayana kichujio cha tiketi, kwa mfano kufanya kazi kwa tiketi kwenye foleni fulani tu. Vigezo vyote vya tiketi lazima vifikiwe kwa kazi kufanyika kwenye tiketi.

Finally, the ticket can be modified by setting various ticket fields like a new queue or state. It is possible to attach a note to the ticket(s) or run a customized module. You also have

the option to delete the ticket(s) from the database. This can be useful to purge outdated or invalid data from the system.

Warning

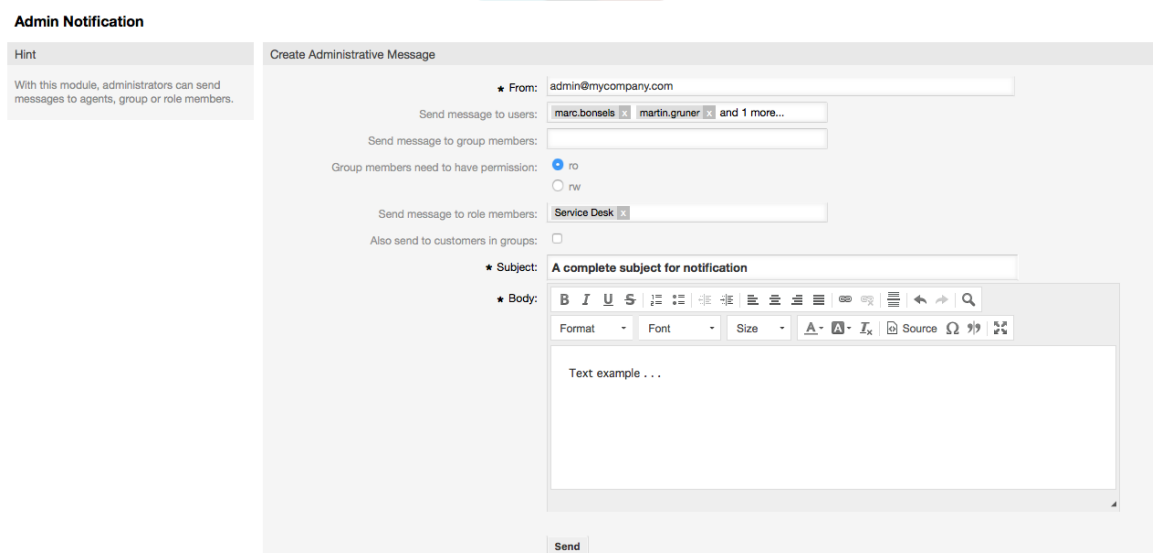
Kama ukitumia fomula-saidizi ya kufuta tiketi, tiketi zote zitakazoathirika na vi-ambatanisho vyake vitaondolewa kwenye hifadhidata na haviwezi kurudishwa!

Baada ya kuhariri kazi, OTRS itarudi kwenye skrini ya mapitio. Huko utakuwa na uwezo wa kuanzisha kazi yoyote kwa mikono. Kama ukichagua kuanzisha kazi, kwanza utaona tiketi zote zitakazoathirika pale kazi itakapoanzishwa. Hii orodha itakusaidia kuthibitisha kwamba kazi inafnywa kama ilivyokusudiwa. Katika pointi hii hakuna mabadiliko yaliyofanywa kwenye tiketi hizi. Kama tu utathibitisha kwenye skrini kazi itafanyika.

1.16. Administrative Messages

OTRS administrators can send messages to specific users or groups. The "Admin Notification" link on the Admin page opens the screen where the agents and groups that should be notified can be selected (see figure below).

Figure 4.55. Admin notification screen



Inawezekana kuweka bayana mtumaji, mada na nakala ya kiini cha taarifa. Unaweza pia kuchagua mawakala, makundi na kazi za nani atakayepokea ujumbe.

1.17. Usimamizi wa kipindi

You can see all logged in users and their session details by clicking the "Session Management" link in the admin area (see figure below).

Figure 4.56. Usimamizi wa kipindi



SESSION	TYPE	USER	KILL
3sydOnqpwHQLLxa4083VcTmBC1wPf8	Agent	Carlos Garcia	Kill this session
jzBgJlquUNb6950CaGHAN0tsME7eA5Fn	Customer	Han Solo	Kill this session

Actions	
All sessions	2
Agent sessions	1
Customer sessions	1
Unique agents	1
Unique customers	1
Kill all sessions	

Some statistics about all active sessions are displayed, e.g. how many agents and customer users are logged in and the number of active sessions. Any individual session can be removed by clicking on the *Kill this session* link on the right-hand side of the list. You also have the option to *Kill all sessions*, which can be useful if you want to take the system offline. Detailed information for every session is available, too (see figure below).

Figure 4.57. Maelezo ya kipindi

Session Management

Actions

Go to overview

Kill this session

Detail View for SessionID : 3sydOnqpwHQLUxa4083rVcTrmBC1wPf8 - Carlos Garcia

KEY	VALUE
AdminDynamicFieldsOverviewPageShown	25
ChangeTime	2015-11-25 13:25:36
CreateTime	2015-11-25 13:25:36
ExternalChannels	[]
NotificationTransport	{"Notification-3-Email";0,"Notification-1-Email";0,"Notification-4-Email";0,"Notification-8-Email";0,"Notification-13-Email";0,"Notification-2-Email";0}
OutOfOfficeEndDay	12
OutOfOfficeEndMonth	12
OutOfOfficeEndYear	2015
OutOfOfficeStartDay	11
OutOfOfficeStartMonth	12
OutOfOfficeStartYear	2015
SessionID	3sydOnqpwHQLUxa4083rVcTrmBC1wPf8
UserChallengeToken	4K1P2yUGJdCMXetMeSFIZom4zCqjRRfn
UserEmail	carlos.garcia@mycompany.com
UserFirstname	Carlos
UserFullname	Carlos Garcia
UserID	2
UsersGroupRo[admin]	Yes
UsersGroupRo[stats]	Yes
UsersGroupRo[users]	Yes
UsersGroup[admin]	Yes
UsersGroup[stats]	Yes

1.18. Matengenezo ya mfumo

System Maintenance give the option to schedule one or more maintenance periods for the system. During this period no agents or customers can login into the system (except for Agents in the "admin" group). Current logged users and customers receive a notification about the maintenance (before and during the maintenance period). Administrators have the option to kill the sessions for logged agents and customers, all this in preparation to be able to make changes in the system (e.g. a system update) in a "safe" environment.

Figure 4.58. The system maintenance overview screen with some scheduled periods

System Maintenance Management

Actions

Schedule New System Maintenance

Hint

Schedule a system maintenance period for announcing the Agents and Customers the system is down for a time period.
Some time before this system maintenance starts the users will receive a notification on each screen announcing about this fact.

List

START DATE	STOP DATE	COMMENT	VALIDITY	DELETE
2015-12-03 19:57:00	2015-12-03 22:57:00	A comment about this maintenance period	valid	

The Start Date and the Stop Date are required fields, and the only rule for this combination is that Start Date can not be a date after the Stop Date.

Figure 4.59. The system maintenance edit screen

Edit System Maintenance

Actions

▼ Edit System Maintenance information

Start date: 12 / 03 / 2015 19 : 57

Stop date: 12 / 03 / 2015 22 : 57

* Comment:

Login message:

Show login message:

Notify message:

* Validity:

or

▼ Manage Sessions

All Sessions 2
 Unique agents 1
 Unique customers 1

Agent Sessions

SESSION	TYPE	USER	KILL
3sydOnqpwHQLUxa4083rVcTfmBC1wPF8	Agent	Carlos Garcia	Kill this session

Customer Sessions

SESSION	TYPE	USER	KILL
jzBgJlquUNb6950CaGHAN0tsME7eA5Fn	Customer	Han Solo	Kill this session

After a new maintenance period is defined an overview and details about the current active sessions is shown, from there administrators can kill this sessions one by one or all of them (except current) if it is needed.

1.19. Batli ya mfumo

The "System Log" link on the Admin page shows the log entries of the system, reverse chronologically sorted with most recent first (see figure below).

Figure 4.60. Batli ya mfumo

System Log

Hint
 Here you will find log information about your system.

Recent Log Entries

TIME	PRIORITY	FACILITY	MESSAGE
Tue Dec 2 02:00:12 2014	notice	OTRS-otrs.GenericAgent.pl-2664	Use module (Kernel::System::GenericAgent::TriggerAdvancedEscalationStartEvents) for Ticket (201411122664000012/3).
Tue Dec 2 02:00:11 2014	notice	OTRS-otrs.GenericAgent.pl-2664	Added scheduler job 'EscalationHistory' by escalation event 'EscalationBreach_2' for ticket '2'!
Tue Dec 2 02:00:11 2014	notice	OTRS-CGI-3051	CustomerUser: 'bruce.banner' changed password successfully!
Tue Dec 2 02:00:11 2014	notice	OTRS-otrs.GenericAgent.pl-1092	Use module (Kernel::System::GenericAgent::TriggerEscalationStartEvents) for Ticket (109200664/990).

Kila mstari kwenye batli una mhuri wa muda, kipaumbele cha batli, kijenzi cha mfumo na ingizo la batli yenyewe.

Note

System logs are available via the web interface only on Linux / Unix systems.

1.20. SQL Queries via the SQL Box

The "SQL Box" link on the Admin page opens a screen that lets you query the content of the tables in the OTRS database (see figure below). It is not possible to change the content of the tables, only 'select' queries are allowed.

Figure 4.61. Boksi la SQL

SQL Box

Hint

Here you can enter SQL to send it directly to the application database. It is not possible to change the content of the tables, only select queries are allowed.

Options

★ SQL:

Limit:

Result format:

1.21. Msimaizi wa kifurushi

Using the "Package Manager" link on the Admin page, you can install and manage packages that extend the functionality of OTRS (see figure below). See the Additional applications section for a discussion on the extensions that are available from the OTRS repositories.

Figure 4.62. Msimaizi wa kifurushi

Package Manager

Actions

Browse... No file selected.

Online Repository

NAME	VERSION	VENDOR	DESCRIPTION	ACTION
FAQ	5.0.2	OTRS AG	The FAQ/knowledge base.	Install
Fred	3.2.7	OTRS AG	A tool to support the developer by his development.	Install
OTRSCloneDB	5.0.1	OTRS AG	The OTRS CloneDB package.	Install
OTRSCodePolicy	1.0.8	OTRS AG	OTRS code quality checks.	Install
OTRSMasterSlave	5.0.1	OTRS AG	Includes "Ticket Master/Slave" feature.	Install
Survey	5.0.1	OTRS AG	A customer survey tool.	Install
SystemMonitoring	5.0.1	OTRS AG	Basic mail interface to System Monitoring Suites. Al...	Install
TimeAccounting	5.0.1	OTRS AG	A Time Registration Module.	Install

Local Repository

NAME	VERSION	VENDOR	DESCRIPTION	STATUS	ACTION
No data found.					

Features for OTRS Business Solution™ customers only → sales@otrs.com

With OTRS Business Solution™, you can benefit from the following optional features. Please make contact with sales@otrs.com if you need more information.

NAME	DESCRIPTION
Advanced Editor	Makes it possible to use response templates with less resources
Custom Contact Fields	Makes it possible to store customer contact data directly in the ticket
Customer Interface Link Object	Shows linked tickets and FAQ article in the OTRS Customer Portal.
Ticket Workflow ITSM	Define Ticket Workflows especially for working processes in your IT Service Management
Service Categories	Assignment of ticket times to ticket services

Meneja kifurushi anaonyesha OTRS vifurushi vya nyongeza ambavyo umesakinisha kwenye seva yako kwa sasa, pamoja na nambari zake za matoleo.

Unaweza kusakinisha vifurushi kutoka kwa mwenyeji wa mbali kwa kuchagua hifadhi kwenye kifungu cha *Hifadhi ya Mtandao*, na kubofya kitufe cha *Sasisha taarifa za hifadhi*. Vifurushi vilivyopo vinaonyeshwa kwenye jedwali husika. Upane wa kulia wa skrini unaonyesha vifurushi vilivyopo. Kusakinisha kifurushi, bofya kwenye *Sakinisha*. Baada ya usakinishaji, kifurushi kinaonyeshwa kwenye kifungu cha *Hifadhi ya Ndani*.

Kuboresha kifurushi kilichosakinishwa, orodha ya vifurushi vilivyopo kwenye hifadhi ya mtandao itaonyesha *Boresha* katika safuwima ya Vitendo kwa kifurushi chochote chenye toleo jipya zaidi ya lile lililosakinishwa kwa ndani. Bofya *Boresha* na itasakinisha toleo jipya la kifurushi kwenye mfumo wako.

Katika baadhi ya kesi, mfano mfumo wako wa OTRS haujaunganishwa na mtandao, unaweza kusakinisha vifurushi ambavyo umepakua kwenye diski ya ndani. Bofya kitufe cha *Vinjari* kwenye mwambaa upande wa vitendo, na chagua faili la .opm la kifurushi kwenye diski yako. Bofya *Fungua* na kisha *Sakinisha Kifurushi*. Baada ya usakinishaji kukamilika, kifurushi kinaonyeshwa kwenye kifungu *Hifadhi ya Ndani*. Unaweza kutumia hatua hizo hizo kusasisha kifurushi ambacho tayari kimesakinishwa.

Katika kesi maalumu, unaweza kutaka kusanidi Meneja Vifurushi, mf., kutumia seva mbadala au kutumia hifadhi ya ndani. Tazama kwenye machaguo yaliyopo kwenye SysConfig chini ya Kiunzi:Kiini::Kifurushi.

1.22. Huduma za Tovuti

The Web Services link leads to the graphical interface where web services (for the OTRS Generic Interface) are created and maintained (see figure below).

Figure 4.63. Kiolesura mchoro cha huduma za tovuti

GenericInterface Web Service Management - Overview

You are here: > Web Services

Actions

+ Add web service

Web Service List

NAME	DESCRIPTION	REMOTE SYSTEM	PROVIDER TRANSPORT	REQUESTER TRANSPORT	VALIDITY
Webservice one	-	-	-	-	valid
Webservice two	-	-	-	-	valid

Kiolesura michoro cha huduma za wavuti kinaelezwa kwa undani zaidi katika kifungu "Kiolesura Michoro cha Huduma ya Tovuti".

1.23. Sehemu zinazobadilika

Sehemu Zinazobadilika ni sehemu ambayo unaseti n akusimamia sehemu zilizogezwa kukufaa kwa ajili ya tiketi n amakala (on akielelezo chini).

Figure 4.64. The dynamic fields overview screen with some dynamic fields

Dynamic Fields Management - Overview

Actions

Ticket

Add new field for object: Ticket

Article

Add new field for object: Article

Hint

To add a new field, select the field type from one of the object's list, the object defines the boundary of the field and it can't be changed after the field creation.

Dynamic Fields List

NAME	LABEL	ORDER	TYPE	OBJECT	VALIDITY	DELETE
ProcessManagementProcessID	Process	1	ProcessID	Ticket	valid	
ProcessManagementActivityID	Activity	2	ActivityID	Ticket	valid	

1-2 of 2

Usanidi wa sehemu zinazobadilika unaelezwa kwa undani zaidi katika kifungu "Usanidi wa Sehemu Zinazobadilika".

Kila aina ya sehemu zinazobadilika ina usanidi wa mpangilio wake na hivyo skrini yake pekee ya usanidi.

Note

Katika kiunzi cha OTRS, sehemu zinazobadilika zinaweza kuunganishwa tu kwenye tiketi na makala kama chaguo-msingi, lakini zinaweza kupanuliwa kwenda kwenye vitu vingine.

2. Usanidi wa Mfumo

2.1. Mafaili ua usanidi wa OTRS

Mafaili yote ya usanidi ya OTRS yanahifadhiwa katika mpangilio orodha Kernel na kati-ka sehemu zake ndogo. Hakuna haja ya kubadilisha kwa mikono faili jingine zaidi ya Kernel/Config.pm, kwa sababu mafaili yaliyobaki yatabadilishwa mfumo ukiboreshwa. Nakili parameta za usanidi kutoka mafaili mengine kwenda Kernel/Config.pm na zibadilishe kutegemeana na mahitaji yako. Hili faili halitaguswa wakati wa mchakato wa kubore-shwa, kwahiyo mipangilio yako ya mikono iko salama.

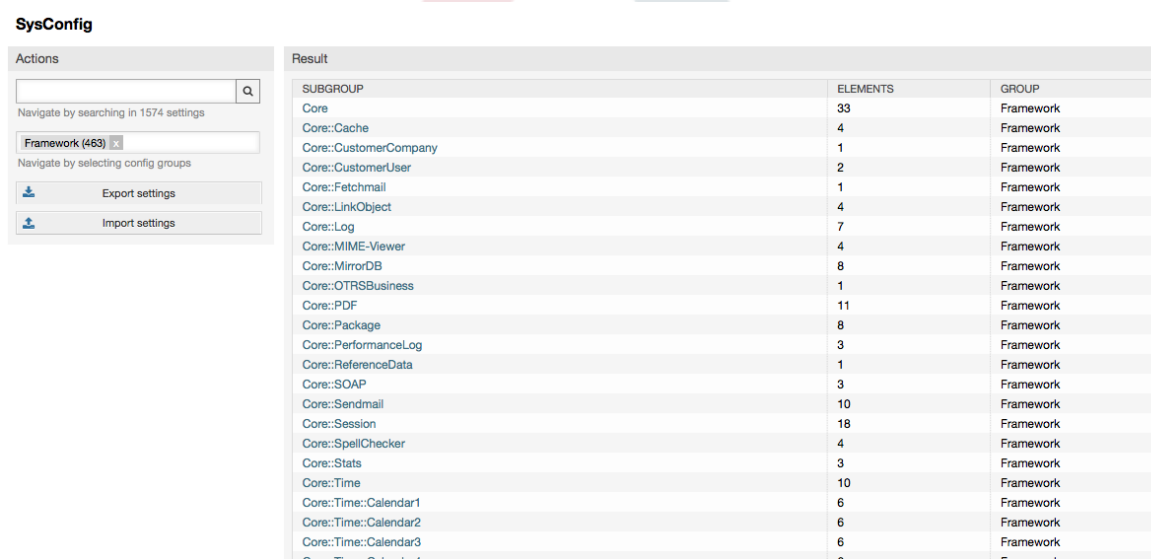
Katika mpangilio orodha Kernel/Config/Files kuna mafaili mengine ambayo yanachanganuliwa wakati kurasa ya kuigia ya OTRS inafikiwa. Kama programu-tumizi za ziada kama Maswali yanayoulizwa mara kwa mara au Meneja Mafaili zimesakinishwa, mafaili ya usanidi ya hizi pia yanaweza kupatikana katika njia iliyotajwa.

Kama kiolesura cha tovuti cha OTRS kimefikiwa, mafaili yote ya .xml katika mpangilio orodha wa Kernel/Config/Files yanachanganuliwa katika mpangilio wa alfabeti, na mipangilio ya kiunzi cha kati na programu-tumizi za ziada zitapakiwa. Baada ya hapo, mipangilio ya kwenye mafaili Kernel/Config/Files/ZZZAAuto.pm, Kernel/Config/Files/ZZZAuto.pm na Kernel/Config/Files/ZZZProcessManagement.pm (kama lipo) yata tathminiwa. Haya mafaili yanatumiwa na kiolesura michoro kwa ajili ya kuhifadhi kwa muda usanidi wa mfumo na hayatakiwi kubadilishwa kwa mikono kamwe. Mwisho, faili Kernel/Config.pm lenye mipangilio yako na parameta zilizobadilishwa kwa mikono, litachanganuliwa. Kusoma mafaili ya usanidi kwa mpangilio huu inahakikisha kwamba mipangilio yako maalumu inatumiwa na mfumo.

2.2. Configuring the System Through the Web Interface

Since OTRS 2.0, nearly all configuration parameters of the central framework or additional installed applications, can be changed easily with the graphical interface for system configuration. Log in as OTRS administrator and follow the SysConfig link on the Admin page to execute the new configuration tool (see figure below).

Figure 4.65. Kiolesura michoro cha usanidi wa mfumo



SysConfig

Actions

Search:

Export settings

Import settings

Result

SUBGROUP	ELEMENTS	GROUP
Core	33	Framework
Core::Cache	4	Framework
Core::CustomerCompany	1	Framework
Core::CustomerUser	2	Framework
Core::Fetchmail	1	Framework
Core::LinkObject	4	Framework
Core::Log	7	Framework
Core::MIME-Viewer	4	Framework
Core::MirrorDB	8	Framework
Core::OTRSBusiness	1	Framework
Core::PDF	11	Framework
Core::Package	8	Framework
Core::PerformanceLog	3	Framework
Core::ReferenceData	1	Framework
Core::SOAP	3	Framework
Core::Sendmail	10	Framework
Core::Session	18	Framework
Core::SpellChecker	4	Framework
Core::Stats	3	Framework
Core::Time	10	Framework
Core::Time::Calendar1	6	Framework
Core::Time::Calendar2	6	Framework
Core::Time::Calendar3	6	Framework
Core::Time::Calendar4	6	Framework

OTRS kwa sasa ina zaidi ya parameta za usanidi 600, na kuna njia tofauti za kufikia kila moja kirahisi. Kwa utafutaji wa nakala kamili, parameta zote za usanidi zinaweza kutafutwa kwa kutumia herufi moja au mbili za muhimu. Utafutaji wa nakala huru hautafuti tu kwenye majina ya parameta za usanidi, bali pia kwenye maelezo ya parameta. Hii inafanya elementi kupatikana kirahisi hata kama jina lake halijulikani.

Kwa zaidi, parameta zote za usanidi zinapangwa katika makundi muhimu na makundi madogo. Makundi muhimu yanawakilisha programu-tumizi ambazo parameta za usanidi zipo ndani yake, mf. "Kiunzi" kwa ajili ya kiunzi cha kati cha OTRS, "Tiketi" kwa ajili ya mfumo wa tiketi, "Maswali yanayoulizwa Mara kwa Mara" kwa ajili ya mfumo wa Maswali yanayoulizwa Mara kwa Mara, na kadhalika. Makundi madogo yanaweza kufikiwa kama programu-tumizi imechaguliwa kutoka kwenye boksi la orodha ya makundi na kitufe cha "Chagua kundi" kimebonyezwa.

Kila parameta ya usanidi inaweza kuwashwa au kuzimwa kwa kupitia kisanduku tiki. Kama parameta imezimwa, mfumo utapuuza hii parameta au kutumia chaguo-msingi. Inawezekana kurudisha parameta ya usanidi iliyobadilishwa kuwa chaguo-msingi la mfumo kwa kutumia kiungo cha kuseti upya. Kitufe cha Kusasisha kinawasilisha mabadiliko yote kwenye parameta za usanidi wa mfumo.

Kama unataka kuhifadhi mabadiiko yote uliyofanya kwenye usanidi wa mfumo wako, kuanzisha usakinishaji mpya kwa haraka, unaweza utumia kitufe "Hamisha mipangilio", ambacho kitatengeneza faili la .pm. Kurudisha mipangilio yako, bonyeza "Agiza mipangilio" na chagua .pm iliyotengenezwa kabla.

Note

Kwa sababu za kiusalama, parameta za usanidi wa miunganiko ya hifadhidata haziwezi kubadilishwa katika kifungu SysConfig. Inabidi zisetiwe kwa mikono katika Kernel/Config.pm.

3. Backing Up the System

Hii sura inaelezea chelezo na urejeshaji wa data za OTRS.

3.1. Chelezo

Kuna aina mbili za data za kuweka kwenye chelezo: mafaili ya programu-tumizi (mf. mafaili ya kwenye /opt/otrs), na data zilizohifadhiwa kwenye hifadhidata.

Kurahisisa chelezo, hati `scripts/backup.pl` imejumuishwa katika kila usakinishaji wa OTRS. Inaweza kuanzishwa ili kuweka chelezo la kila data muhimu (ona Hati chini).

```
linux:/opt/otrs# cd scripts/  
linux:/opt/otrs/scripts# ./backup.pl --help  
backup.pl - backup script  
Copyright (C) 2001-2014 OTRS AG, http://otrs.com/  
usage: backup.pl -d /data_backup_dir/ [-c gzip|bzip2] [-r 30] [-t fullbackup|nofullbackup|  
dbonly]  
linux:/opt/otrs/scripts#
```

Hati: Kupata usaidizi wa utaratibu wa chelezo la OTRS.

Tekeleza amri zilizowekwa bayana kwenye hati hapo chini kutengeneza chelezo:

```
linux:/opt/otrs/scripts# ./backup.pl -d /backup/  
Backup /backup//2010-09-07_14-28/Config.tar.gz ... done  
Backup /backup//2010-09-07_14-28/Application.tar.gz ... done  
Dump MySQL rdbms ... done  
Compress SQL-file... done
```

```
linux:/opt/otrs/scripts#
```

Hati: Kutengeneza chelezo.

Data zote zimehifadhiwa kwenye mpangilio orodha /chelezo/2010-09-07_14-28/ (ona hati hapo chini). Kwa zaidi, data zilihifadhiwa kwenye faili la .tar.gz

```
linux:/opt/otrs/scripts# ls /backup/2010-09-07_14-28/  
Application.tar.gz Config.tar.gz DatabaseBackup.sql.gz  
linux:/opt/otrs/scripts#
```

Hati: Kukagua mafaili ya chelezo.

3.2. Rejeshwa

Kurejeshwa chelezo, data zilizohifadhiwa za programu-tumizi zina andikwa upya kwenye mpangilio orodha wa usanikishaji, mf. /opt/otrs. Pia hifadhidata inabidi irejeshwe.

Hati hati/rejeshwa.pl (ona hati chini), ambayo inarahisisha mchakato wa kurejeshwa, inasambazwa na kila usanikishaji wa OTRS. Ina usaidizi kwa MySQL na PostgreSQL.

```
linux:/opt/otrs/scripts# ./restore.pl --help  
restore.pl - restore script  
Copyright (C) 2001-2014 OTRS AG, http://otrs.com/  
usage: restore.pl -b /data_backup/<TIME>/ -d /opt/otrs/  
linux:/opt/otrs/scripts#
```

Hati: Kupata usaidizi wa utaratibu wa urejeshaji.

Data ambazo zimehifadhiwa, kwa mfano, kwenye mpangilio orodha /chelezo/2010-09-07_14-28/, inaweza kurejeshwa na amri zilizo kwenye hati hapa chini, kwa kuamini usanikishaji wa OTRS upo kwenye /opt/otrs.

```
linux:/opt/otrs/scripts# ./restore.pl -b /backup/2010-09-07_14-28 -d /opt/otrs/  
Restore /backup/2010-09-07_14-28//Config.tar.gz ...  
Restore /backup/2010-09-07_14-28//Application.tar.gz ...  
create MySQL  
decompresses SQL-file ...  
cat SQL-file into MySQL database  
compress SQL-file...  
linux:/opt/otrs/scripts#
```

Hati: Kurejeshwa data za OTRS .

4. Mipangilio ya barua pepe

4.1. Sending/Receiving Emails

4.1.1. Sending Emails

4.1.1.1. Via Sendmail (Default)

OTRS can send out emails via [Sendmail](#), [Postfix](#), [Qmail](#) or [Exim](#). The default configuration is to use Sendmail and should work out-of-the-box.

You can configure the sendmail settings via the graphical configuration frontend (Framework::Core::Sendmail)

4.1.1.2. Via SMTP Server or Smarthost

OTRS can send emails via SMTP ([Simple Mail Transfer Protocol / RFC 821](#)) or Secure SMTP.

The SMTP server settings can be configured via the SysConfig (Framework::Core::Sendmail). If you don't see SMTPS available as an option, the required Perl modules are missing. In that case, please refer to "Installation of Perl modules required for OTRS" for instructions.

4.1.2. Receiving Emails

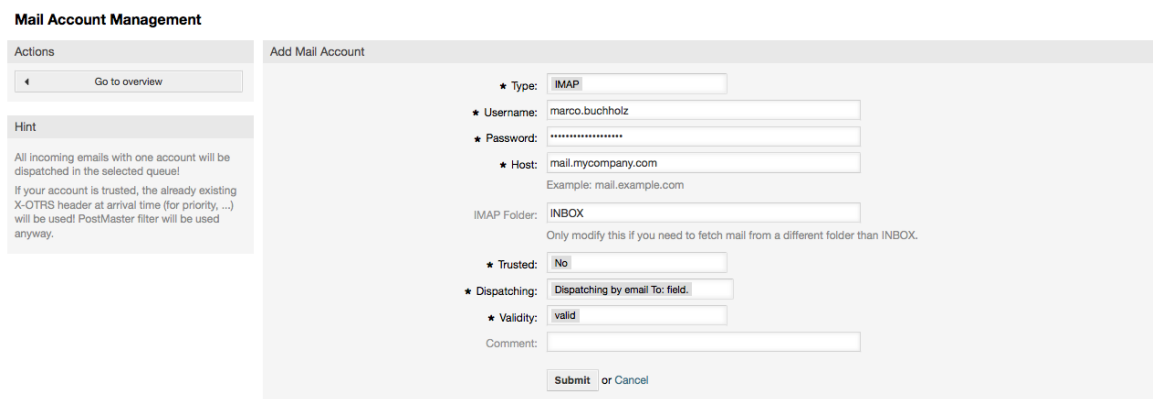
4.1.2.1. Mail Accounts Configured via the OTRS GUI

OTRS is able to receive emails from POP3, POP3S, IMAP and IMAPS mail accounts.

Configure your mail accounts via the "PostMaster Mail Accounts" link on the Admin page.

If a new mail account is to be created (see figure below), then its mail server name, login name and password must be specified. Also, you need to select the mail server type, which can be POP3, POP3S, IMAP or IMAPS. If you don't see your server type available as an option, the required Perl modules are missing on your system. In that case, please refer to "Installation of Perl modules required for OTRS" for instructions.

Figure 4.66. Kuongeza akaunti ya barua pepe



The screenshot shows the 'Mail Account Management' interface. On the left, there are 'Actions' (Go to overview) and a 'Hint' box. The main area is titled 'Add Mail Account' and contains the following fields:

- Type: IMAP
- Username: marco.buchholz
- Password: [masked]
- Host: mail.mycompany.com (Example: mail.example.com)
- IMAP Folder: INBOX (Note: Only modify this if you need to fetch mail from a different folder than INBOX.)
- Trusted: No
- Dispatching: Dispatching by email To: field.
- Validity: valid
- Comment: [empty]

Buttons: Submit or Cancel

Kama ukichagua Ndiyo kwa thamani ya chaguo linaloaminiwa, kichwa chochote cha X-OTRS kilichoambatanishwa na ujumbe unaoingia kinatathminiwa na kutekelezwa. Kwa sababu kichwa cha X-OTRS kinaweza kutekeleza baadhi ya vitendo katika mfumo wa tiketi, unatakiwa kuseti chaguo la kuamini kuwa Ndiyo kwa watumaji wanaojulikana tu. Vichwa vya OTRS vinatumika na moduli ya kuchuja katika OTRS. Vichwa vya OTRS vinaelezwa katika jedwali hili kwa undani zaidi. Sheria zote za mkuu wa posta zilizotengenezwa zinatekelezwa, bila kujali mipangilio ya mchaguo linaloaminiwa.

Usambazaji wa ujumbe unaoingia unaweza kudhibitiwa kama inahitajika kupangwa kwa foleni au kwa maudhui ya sehemu "Kwa:". Kwa sehemu ya kutuma, kama "Utumaji kwa foleni iliyochaguliwa" imechaguliwa, ujumbe unaoingia utapangwa kwenye foleni maalumu. Anuani ambako barua ilitumwa inapuuzwa kwa sasa. Kama "Utumaji kwa barua pepe sehemu Kwa: " imechaguliwa, mfumo unakagua kama foleni imeunganishwa na anuani ya kwenye sehemu Kwa: ya barua inayoingia. Unaweza kuunganisha anuani kwenye foleni katika kifungu cha Usimamizi wa anuani ya barua pepe cha ukurasa wa Msimamizi. Kama anuani ya sehemu Kwa: imeunganishwa na foleni, ujumbe mpya utapangwa kwenye foleni zilizounganishwa. Kama hakuna kiungo kilichopatikana kati ya anuani kwenye sehemu Kwa: na foleni yoyote, basi ujumbe utaingia kwenye foleni "Mbichi" katika mfumo, ambayo ni FoleniChaguo-msingiYaMkuuwaposta baada ya usakinishaji wa kawaida.

All data for the mail accounts are saved in the OTRS database. The `bin/otrs.Console.pl Maint::PostMaster::MailAccountFetch` command uses the settings in the database and fetches the mail. You can execute it manually to check if all your mail settings are working properly.

On a normal installation, the mail will be fetched every 10 minutes by the OTRS Daemon.

Note

Wakati wa kutafuta barua pepe, OTRS inafuta barua hiyo kutoka kwenye seva ya POP au IMAP. Hakuna njia ya kuweka nakala kwenye seva. Kama unataka kubakiwa na nakala kwenye seva, unatakiwa utengeneze sheria za kupeleka mbele katika seva yako ya barua. Tafadhali tembelea nyaraka zako za seva ya barua kwa undani.

4.1.2.2. Via Command Line Program and Procmail (otrs.Console.pl Maint::PostMaster::Read)

If you cannot use mail accounts to get the email into OTRS, the command line program `bin/otrs.Console.pl Maint::PostMaster::Read` might be a way around the problem. It takes the mails via STDIN and pipes them directly into OTRS. That means email will be available in your OTRS system if the MDA (mail delivery agent, e.g. procmail) executes this program.

To test `bin/otrs.Console.pl Maint::PostMaster::Read` without an MDA, execute the command of the following script.

```
linux:/opt/otrs# cd bin
linux:/opt/otrs/bin# cat ../doc/sample_mails/test-email-1.box | ./otrs.Console.pl
Maint::PostMaster::Read
linux:/opt/otrs/bin#
```

Hati: Kujaribisha MkuuWaPosta bila MDA.

Kama barua pepe imeonyeshwa kwenye MuonekanoFoleni, basi mpangilio wako unafanya kazi.

Example 4.2. Routing via Procmail Using `otrs.Console.pl`

In order to route mails in a specific queue using `otrs.Console.pl` use the following example.

```
| $SYS_HOME/bin/otrs.Console.pl Maint::PostMaster::Read --target-queue=QUEUENAME
```

When sorting to a subqueue, you must separate the parent and child queue with a `::`.

```
| $SYS_HOME/bin/otrs.Console.pl Maint::PostMaster::Read --target-queue=QUEUENAME::SUBQUEUE
```

Procmail ni kichujio cha barua pepe kinachojulikana sana katika mazingira ya Linux. Inasakinishwa katika mifumo mingi. Kama siyo, angalia katika [ukurasa wa nyumbani wa procmail](#).

Kusanidi procmail kwa ajili ya OTRS (kutegemeana na MTA iliyosanidiwa na procmail kama sendmail, postfix, exim au qmail), tumia faili `~otrs/.procmailrc.dist` na nakili kwenda kwenye `.procmailrc` na ongeza mistari ya hati chini.

```
SYS_HOME=$HOME
PATH=/bin:/usr/bin:/usr/local/bin
# --
# Pipe all email into the PostMaster process.
# --
:0 :
| $SYS_HOME/bin/otrs.Console.pl Maint::PostMaster::Read
```

Hati: Kusanidi procmail kwa ajili ya OTRS.

All email sent to the local OTRS user will be piped into `bin/otrs.Console.pl Maint::PostMaster::Read` and then shown in your QueueView.

4.1.2.3. Fetching emails via POP3 or IMAP and fetchmail for `otrs.Console.pl Maint::PostMaster::Read`

In order to get email from your mail server, via a POP3 or IMAP mailbox, to the OTRS machine/local OTRS account and to procmail, use [fetchmail](#).

Note

Usanidi wa SMTP unaofanya kazi unahitajika kwenye mashine ya OTRS.

You can use the `.fetchmailrc.dist` in the home directory of OTRS and copy it to `.fetchmailrc`. Modify/change it for your needs (see the Example below).

Example 4.3. `.fetchmailrc`

```
#poll (mailserver) protocol POP3 user (user) password (password) is (localuser)
poll mail.example.com protocol POP3 user joe password mama is otrs
```

Don't forget to set the `.fetchmailrc` to 710 (**`chmod 710 .fetchmailrc`**)!

With the `.fetchmailrc` from the Example above, all email will be forwarded to the local OTRS account, if the command **`fetchmail -a`** is executed. Set up a cronjob with this command if you want to fetch the mails regularly.

4.1.2.4. Filtering/Dispatching by OTRS/PostMaster Modules (for More Complex Dispatching)

If you use the `bin/otrs.Console.pl Maint::PostMaster::Read` or `bin/otrs.Console.pl Maint::PostMaster::MailAccountFetch` method, you can insert or modify X-OTRS header entries with the PostMaster filter modules. With the X-OTRS headers, the ticket system can execute some actions on incoming mails, sort them into a specific queue, change the priority or change the customer ID, for example. More information about the X-OTRS headers are available in the section about adding mail accounts from the OTRS Admin page.

Kuna baadhi ya moduli chaguo-msingi za kuchuja:

Note

Jina la kazi (mf. `$Self->{'MkuuWaPosta::ModuliUchujaji'}->{'JinaKazi'}`) linahitaji kuwa la kipekee!

`Kernel::System::PostMaster::Filter::Match` is a default module to match on some email header (e.g. From, To, Subject, ...). It can set new email headers (e.g. X-OTRS-Ignore: yes or X-OTRS-Queue: spam) if a filter rule matches. The jobs of the Example below can be inserted in `Kernel/Config.pm`

Example 4.4. Example jobs for the filter module `Kernel::System::PostMaster::Filter::Match`

```
# Job Name: 1-Match
# (block/ignore all spam email with From: noreply@)
$self->{'PostMaster::PreFilterModule'}->{'1-Match'} = {
  Module => 'Kernel::System::PostMaster::Filter::Match',
  Match => {
    From => 'noreply@',
  },
  Set => {
```



```

    'X-OTRS-Ignore' => 'yes',
  },
};
# Job Name: 2-Match
# (sort emails with From: sales@example.com and Subject: **ORDER**
# into queue 'Order')
$Self->{'PostMaster::PreFilterModule'}->{'2-Match'} = {
  Module => 'Kernel::System::PostMaster::Filter::Match',
  Match => {
    To => 'sales@example.com',
    Subject => '**ORDER**',
  },
  Set => {
    'X-OTRS-Queue' => 'Order',
  },
};

```

Kernel::System::PostMaster::Filter::CMD is a default module to pipe the email into an external command. The output is given to STDOUT and if the result is true, then set new email header (e.g. X-OTRS-Ignore: yes or X-OTRS-Queue: spam). The Example below can be used in Kernel/Config.pm

Example 4.5. Kazi ya mfano kwa moduli ya kucha Kiini::Mfumo::MkuuWaPosta::Kichujio::CMD

```

# Job Name: 5-SpamAssassin
# (SpamAssassin example setup, ignore spam emails)
$Self->{'PostMaster::PreFilterModule'}->{'5-SpamAssassin'} = {
  Module => 'Kernel::System::PostMaster::Filter::CMD',
  CMD => '/usr/bin/spamassassin | grep -i "X-Spam-Status: yes"',
  Set => {
    'X-OTRS-Ignore' => 'yes',
  },
};

```

Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition is a default module that adds the possibility to parse external identifiers, in the email subject, the body or both using regular expressions. It then stores this value in a defined dynamic field. When an email comes in, OTRS will first search for an external identifier and when it finds one, query OTRS on the pre-defined dynamic field. If it finds an existing ticket, it will update this ticket, otherwise it will create a new ticket with the external reference number in the separate field.

OTRS SysConfig already provide 4 different settings to setup different external ticket numbers. If more settings are needed they need to be added manually. The following example can be used in Kernel/Config.pm to extend SysConfig settings.

Example 4.6. Example job for the filter module Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition

```

# Job Name: ExternalTicketNumberRecognition
# External Ticket Number Reconition, check for Incident-<number> in incoming mails
subject and
# body from the addeesses <sender>@externalticket.com, if number is found it will be
stored in
# the dynamic field 'ExternalNumber' (that need to be setup in the Admin Panel).
$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition'} = {
  'FromAddressRegExp' => '\\s*@externalticket.com',
  'NumberRegExp' => 'Incident-(\\d.*)',
  'SearchInSubject' => '1',
  'SearchInBody' => '1',
  'TicketStateTypes' => 'new;open'
  'DynamicFieldName' => 'ExternalNumber',
  'Module' =>
'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',

```

```
'Name' => 'Test External Ticket Number',  
'SenderType' => 'system',  
};
```

Machaguo ya Usanidi

- KutokaAnwaniRegExp

Huu ni mpangilio wa hiari. Barua zinazofanana na hii anwani "Kutoka:" ndiyo zitatumika kwa kichujio hiki. Unaweza kubadilisha huu mpangilio kuwa anwani ya mtumaji mfumo wako wa nje inayotumia kwa ujumbe unaotoka. Ikiwa hii anwani ianatofautiana, unaweza kuseti hili chaguo kuwa tupu. OTRS kwa kesi hii haitakagua anwani ya mtumaji.

- NambaRegExp

Huu ni mpangilio wa lazma. Huu mpangilio una semi za kawaida ambazo OTRS itatumia kupata nambari ya tiketi kutoka kwenye somo na/au kiini cha tiketi. Usemi wa kawaida utafanana na matukio ya kwa mfano 'Tukio-12354' na itaweka sehemu iliyo kwenye mabano katika sehemu inayobadilika, kwa kesi hii '12354'.

- TafutaInSomo

Kama hii imesetiwa kuwa '1', mada ya barua pepe inatafutwa kwa ajili ya nambari ya tiketi.

- Tafuta katika Kiini

Kama hii imesetiwa kuwa '1', kiini cha barua pepe kinatafutwa kwa ajili ya nambari ya tiketi.

- TiketiHaliAina

Huu ni mpangilio wa hiari. Kama imetolewa, itatafuta OTRS kwa ajili ya tiketi za nje zilizo wazi tu kwa aina fulani ya hali. Aina za hali zinagawanywa na nukta mkato.

- SehemuInayobadilika

Huu ni mpangilio unaohitajika. Unafafanua sehemu inayobadilika ambayo inatumika kuhifadhi nambari ya nje (jina la sehemu lazima liwepo kwenye mfumo na inabidi liwe halali).

- AinaYaMtumaji

Hii inafafanua aina ya mtumaji wa makala zilizotengenezwa katika OTRS.

Pia inawezekana kutengeneza moduli zako za kuchuja za MkuuWaPosta.

4.1.2.5. Troubleshooting Email Filtering

This section shows some common issues and things to consider when troubleshooting Postmaster filters.

- The filters are worked in order of their alphabetically sorted filter names. The last filter wins for a certain field to be set, when the criteria match twice.
- "Stop After Match" can prevent a second match.
- Make sure the regular expression is valid.
- Headers can be set as to control OTRS, but are not written in the mail itself.
- When matching one From, CC, TO, use EMAILADDRESS: <your@address>
- The Mailbox must be trusted.

- The match criteria are AND conditions.
- Ticket properties can not be matched by the postmaster filter.

4.2. Secure Email with PGP

OTRS ina uwezo wa kusaini au kusimba fiche ujumbe unaotoka kwa PGP. Zaidi, ujumbe unaoingia ulio simbwa fiche unaweza kusimbua fiche. Kusimba na kusimbua fiche unafanyika na kifaa cha GPL GnuPG. Kuseti GnuPG kwa ajili ya OTRS, hatua zifwatazo inabidi zifanyike:

1. Sakinisha GnuPG, kupitia meneja kifurushi wa mfumo endeshi wako.
2. Sanidi GnuPG ili utumie pamoja na OTRS. Mipangilio orodha ya lazima ya GnuPG na ufunguo binafsi lazima vitengenezwe. Amri iliyoonyeshwa chini lazima itekelezwe kama mtumiaji 'otrs' kutoka kwenye sheli.

```
linux:~# su otrs
linux:/root$ cd
linux:~$ pwd
/opt/otrs
linux:~$ gpg --gen-key
gpg (GnuPG) 1.4.2; Copyright (C) 2005 Free Software Foundation, Inc.
This program comes with ABSOLUTELY NO WARRANTY.
This is free software, and you are welcome to redistribute it
under certain conditions. See the file COPYING for details.

gpg: directory `/opt/otrs/.gnupg' created
gpg: new configuration file `/opt/otrs/.gnupg/gpg.conf' created
gpg: WARNING: options in `/opt/otrs/.gnupg/gpg.conf' are not yet active during t
his run
gpg: keyring `/opt/otrs/.gnupg/secring.gpg' created
gpg: keyring `/opt/otrs/.gnupg/pubring.gpg' created
Please select what kind of key you want:
  (1) DSA and Elgamal (default)
  (2) DSA (sign only)
  (5) RSA (sign only)
Your selection? 1
DSA keypair will have 1024 bits.
ELG-E keys may be between 1024 and 4096 bits long.
What keysize do you want? (2048)
Requested keysize is 2048 bits
Please specify how long the key should be valid.
  0 = key does not expire
  <n> = key expires in n days
  <n>w = key expires in n weeks
  <n>m = key expires in n months
  <n>y = key expires in n years
Key is valid for? (0)
Key does not expire at all
Is this correct? (y/N) y

You need a user ID to identify your key; the software constructs the user ID
from the Real Name, Comment and Email Address in this form:
  "Heinrich Heine (Der Dichter) <heinrichh@duesseldorf.de>"

Real name: Ticket System
Email address: support@example.com
Comment: Private PGP Key for the ticket system with address support@example.com
You selected this USER-ID:
"Ticket System (Private PGP Key for the ticket system with address support@examp
le.com) <support@example.com>"

Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? 0
You need a Passphrase to protect your secret key.

Passphrase: secret
Repeat passphrase: secret
```

```

We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.
+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.
.....>+++++<+++++.....+++++
  
```

Not enough random bytes available. Please do some other work to give the OS a chance to collect more entropy! (Need 280 more bytes)

```

+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.
+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.+++++.
..+++++>+++++.....>+++++.....>+++++<+++++.....
.....>+++++<+++++.....
.....+++++^^^
  
```

```

gpg: /opt/otrs/.gnupg/trustdb.gpg: trustdb created
gpg: key 7245A970 marked as ultimately trusted
public and secret key created and signed.
  
```

```

gpg: checking the trustdb
gpg: 3 marginal(s) needed, 1 complete(s) needed, PGP trust model
gpg: depth: 0 valid: 1 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 1u
pub 1024D/7245A970 2006-02-03
    Key fingerprint = 2ED5 BC36 D2B6 B055 7EE1 5833 1D7B F967 7245 A970
    uid Ticket System (Private gpg key for ticket system with address
support@example.com) <support@example.com>
sub 2048g/52B97069 2006-02-03
  
```

```
linux:~$
```

Hati: Kusanidi GnuPG.

Kama ilivyoonyeshwa kwenye hati chini, mipangilio chaguo-msingi inaweza kutumika kwa parameta nyingi zinazotakiwa. Thamani za mmiliki wa ufunguo tu ndio zinatakiwa kuingizwa kwa usahihi, na nywila sahihi kuwekwa kwa ajili ya funguo.

3. Kwenye skrini kwa ajili ya mipangilio ya PGP, PGP lazima iamilishwe kwa ajili ya OTRS (chaguo la kwanza). Pia, njia ya kwenda kwenye programu ya gpg lazima isetiwe na kukaguliwa.

Mpangilio unaofwata wa config (PGP::Options) unaweza kuhitaji mabadiliko pia. Kupitia mpangilio huu wa config, parameta ambazo zinatumiwa kwa kila utekelezaji wa gpg kwa mtumiaji wa 'otrs' unaweza kuwekwa bayana. Hasa, mpangilio orodha wa mafailli ya config ya GnuPG ya mtumiaji wa 'otrs' ni muhimu. Kwenye mfano /opt/otrs/.gnupg imetumika. Huu mpangilio orodha ulitengenezwa mapema wakati wa usanidi wa PGP.

Kwa kupitia chaguo linalofwata la usanidi (PGP::Ufunguo::Nywila) inawezekana kubainisha jozi ya Vitambulisho vya funguo na nywila zake kwa ajili ya funguo binafsi. Kwa sababu mawasiliano ya wabia kutoka nje wanaandika kwenye mfumo wa tiketi na ujumbe wao kufanyiwa usimbaji fiche kwa kutumia funguo zako za umma, OTRS inaweza kusimbua fiche huu ujumbe kwa kutumia Kitambulisho/nywila zilizobainishwa hapa.

Jinsi ya kupata kitambulisho cha ufunguo wako binafsi? Kitambulisho cha ufunguo wako binafsi tayari kinaonyeshwa wakati wa uzalishaji funguo (ona hatua 1 hapo juu). Pia inawezekana kupata Kitambulisho kama amri itakayoonyeshwa kwenye hati ifuatayo itatekelezwa kama mtumiaji 'otrs':

```

linux:~# su otrs
linux:/root$ cd
linux:~$ pwd
/opt/otrs
linux:~$ gpg --list-keys
  
```

```
/opt/otrs/.gnupg/pubring.gpg
-----
pub 1024D/7245A970 2006-02-03
uid Ticket System (Private pgp key for ticket system with
address support@example.com) <support@example.com>
sub 2048g/52B97069 2006-02-03

linux:~$
```

Hati: Kupata Kitambulisho cha ufunguo wako binafsi.

Kitambulisho cha ufunguo binafsi kinaweza kupatikana katika mstari uanoanza na "sub". Ni tungo iliyo katika hexadecimal ambayo ina urefu wa herufi nane, katika mfano juu ni "52B97069". Nywila unayotakiwa kuweka bayana kwa ajili ya huu ufunguo katika mfumo wa tiketi ni sawa na uliotolewa wakati wa uzalishaji ufunguo.

Baada ya hii data kuingizwa, kitufe cha ku "sasisha" kinaweza kutumika kuhifadhi mipangilio. OTRS iko tayari kupokea na kusimbua fiche ujumbe uliofanyiwa usimbaji.

4. Hatimaye, agiza ufunguo wa umma wa mteja. Hii inahakikisha kwamba ujumbe uliofanyiwa usimbaji fiche unaweza kutumwa nje kwa huyu mteja. Kuna njia mbili za kugiza ufunguo wa umma wa mteja.

Njia ya kwanza ni kubainisha ufunguo wa umma wa mteja katika kiolesura cha usimamizi wa mteja.

Njia ya pili ni kuweka bayana ufunguo kupitia mipangilio ya PGP, inafikika kutoka kwenye kurasa ya Msimamizi. Katika upande wa kulia wa hii skrini, funguo za umma za wateja zilizoagizwa kutoka nje zinaonyeshwa. Baada ya PGP kuamilishwa na kusanidwa kwa ajili ya OTRS, funguo yako mwenyewe ya umma itaorodheshwa hapa. Kwenye upande wa kushoto wa skrini ya mipangilio ya PGP inawezekana kutafuta funguo. Pia ufunguo mpya wa umma unaweza kupakiwa kwenye mfumo kutoka kwenye faili.

Mafaili yenye ufunguo wa umma ambayo yanahitaji kuagizwa kwenye OTRS inabidi yawe tangamanifu na mafaili ya ufunguo ya GnuPGP. Katika kesi nyingi, ufunguo uliohifadhiwa katika faili ni "ufunguo unaolindwa na ASCII". OTRS inaweza kushughulika na umbizo hili.

4.3. Secure Email with S/MIME

Kwa muonekano wa kwanza, usimbaji fiche kwa S/MIME unaonekana mgumu kulinganisha na PGP. Kwanza inabidi uanzishe Mamlaka ya Uhalalishaji (CA) kwa ajili ya mfumo wa OTRS. Hatua zinazofuata ni kama zile zinazohitajika na PGP: sanidi OTRS, sakinisha hati yako mwenyewe, agiza hati nyingine za umma kama zinavyohitajika, na kadh.

Usanidi wa S/MIME unafanyika nje ya kiolesura cha tovuti cha OTRS kwa asilimia kubwa, na unatakiwa ufanyike kwenye sheli na mtumiaji wa 'otrs'. Usanidi wa MIME chini ya Linux unajikita katika SSL (OpenSSL). Kwahiyo kwanza kabisa kagua kama kifurudhi cha OpenSSL kimesakinishwa kwenye mfumo wako. Kifurushi cha OpenSSL kinajumuisha hati iitwayo CA.pl, ambamo ndani yake hatua za muhimu za utengenezaji wa hati zinaweza kufanyika. Kurahisisha mchakato, tafuta wapi kwenye mfumo wa mafaili hati ya CA.pl imehifadhiwa na ingiza mahali inapopatikana katika kishika nafasi NJIA cha sheli (ona Hati chini).

```
otrs@linux:~$ rpm -ql openssl | grep CA
/usr/share/ssl/misc/CA.pl
otrs@linux:~$ export PATH=$PATH:/usr/share/ssl/misc
otrs@linux:~$ which CA.pl
/usr/share/ssl/misc/CA.pl
otrs@linux:~$ mkdir tmp; cd tmp
```

```
otrs@linux:~/tmp>
```

Hati: Usanidi wa S/MIME.

Hati hapo juu inaonyesha kwamba mpangilio orodha mpya wa muda ~/tmp umetengenezwa, ambapo ndani yake hati itazalishwa.

Kutengeneza hati, fanya operesheni zifuatazo katika tungo amri (tunaamini msimamizi wa OTRS inabidi atengeneze hati ya SSL kwa ajili ya kujaribisha na kujifunza. Kama tayari una hati ya SL iliyothibitishwa kwa ajili ya usimbaji fiche, itumie na ruka hizi hatua):

1. Anzisha Mamlaka yako ya Uhalalishaji kwa ajili ya SSL. unahitaji kuthibitisha maombi ya hati yako ya SSL (ona Hati chini).

```
otrs@linux:~/tmp> CA.pl -newca
CA certificate filename (or enter to create)

Making CA certificate ...
Generating a 1024 bit RSA private key
...+++++
.....+++++
writing new private key to './demoCA/private/cakey.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:DE
State or Province Name (full name) [Some-State]:OTRS-state
Locality Name (eg, city) []:OTRS-town
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Your company
Organizational Unit Name (eg, section) []:
Common Name (eg, YOUR name) []:OTRS Admin
Email Address []:otrs@your-domain.tld
otrs@linux:~/tmp> ls -la demoCA/
total 8
-rw-r--r--  1 otrs otrs 1330 2006-01-08 17:54 cacert.pem
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 certs
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 crl
-rw-r--r--  1 otrs otrs   0 2006-01-08 17:53 index.txt
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 newcerts
drwxr-xr-x  2 otrs otrs  80 2006-01-08 17:54 private
-rw-r--r--  1 otrs otrs  17 2006-01-08 17:54 serial
otrs@linux:~/tmp>
```

Hati: Kuweka Mamlaka ya Uhalalishaji kwa ajili ya SSL.

2. Zalisha maombi ya cheti (ona Hati chini).

```
otrs@linux:~/tmp> CA.pl -newreq
Generating a 1024 bit RSA private key
.....+++++
....+++++
writing new private key to 'newreq.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
```

```
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:DE\keyreturn
State or Province Name (full name) [Some-State]:OTRS-state
Locality Name (eg, city) []:OTRS-town
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Your company
Organizational Unit Name (eg, section) []:
Common Name (eg, YOUR name) []:OTRS admin
Email Address []:otrs@your-domain.tld

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
Request (and private key) is in newreq.pem
otrs@linux:~/tmp> ls -la
total 4
drwxr-xr-x  6 otrs otrs  232 2006-01-08 17:54 demoCA
-rw-r--r--  1 otrs otrs 1708 2006-01-08 18:04 newreq.pem
otrs@linux:~/tmp>
```

Hati: Kutengeneza maombi ya cheti.

3. Kusaini maombi ya hati. Maombi ya hati yanaweza kusainiwa na kuthibitishwa na Mamlaka yako ya Uhalalishaji, au ili kuaminika zaidi kwa kusainiwa na Mamlaka nyingine ya Uhalalishaji iliyothibitishwa. (ona chini).

```
otrs@linux:~/tmp> CA.pl -signreq
Using configuration from /etc/ssl/openssl.cnf
Enter pass phrase for ./demoCA/private/cakey.pem:
Check that the request matches the signature
Signature ok
Certificate Details:
  Serial Number:
    fd:85:f6:9f:14:07:16:c8
  Validity
    Not Before: Jan  8 17:04:37 2006 GMT
    Not After  : Jan  8 17:04:37 2007 GMT
  Subject:
    countryName           = DE
    stateOrProvinceName   = OTRS-state
    localityName          = OTRS-town
    organizationName      = Your Company
    commonName            = OTRS administrator
    emailAddress          = otrs@your-domain.tld
  X509v3 extensions:
    X509v3 Basic Constraints:
      CA:FALSE
    Netscape Comment:
      OpenSSL Generated Certificate
    X509v3 Subject Key Identifier:
      01:D9:1E:58:C0:6D:BF:27:ED:37:34:14:D6:04:AC:C4:64:98:7A:22
    X509v3 Authority Key Identifier:
      keyid:10:4D:8D:4C:93:FD:2C:AA:9A:B3:26:80:6B:F5:D5:31:E2:8E:DB:A8
      DirName:/C=DE/ST=OTRS-state/L=OTRS-town/O=Your Company/
      CN=OTRS admin/emailAddress=otrs@your-domain.tld
      serial:FD:85:F6:9F:14:07:16:C7

Certificate is to be certified until Jan  8 17:04:37 2007 GMT (365 days)
Sign the certificate? [y/n]:y

1 out of 1 certificate requests certified, commit? [y/n]y
Write out database with 1 new entries
Data Base Updated
Signed certificate is in newcert.pem
otrs@linux:~/tmp>
```

Hati: Kusaini maombi ya cheti.

4. Zalisha hati yako mwenyewe, na data zote zinaoendana nazo, kwa kutumia maombi ya hati yaliyosainiwa (ona Hati chini).

```
otrs@linux:~/tmp> CA.pl -pkcs12 "OTRS Certificate"  
Enter pass phrase for newreq.pem:  
Enter Export Password:  
Verifying - Enter Export Password:  
otrs@linux:~/tmp> ls -la  
total 12  
drwxr-xr-x  6 otrs otrs  328 2006-01-08 18:04 demoCA  
-rw-r--r--  1 otrs otrs 3090 2006-01-08 18:13 newcert.p12  
-rw-r--r--  1 otrs otrs 3791 2006-01-08 18:04 newcert.pem  
-rw-r--r--  1 otrs otrs 1708 2006-01-08 18:04 newreq.pem  
otrs@linux:~/tmp>
```

Hati: Kuzalisha cheti kipya.

Sasa kwa kuwa hizi operesheni zimefanyika, kuseti S/MIME lazima kukamilike katika OTRS.

hiki kipande cha kuseti kinafanyika katika ukurasa wa Msimamizi, kuchagua kiungo "SMIME". Ikiwa msaada wa S/MIME wa kawaida kwenye OTRS haujawezeshwa, barakoa itanbainisha hii kwa msimamizi na kutoa kiungo cha kuiwezesha.

Na kundi la SysConfig "Crypt::SMIME", unaweza kuwezesha na kusanidi msaada wa ujumla wa S/MIME.

Hana unweza kuamilisha msaada wa S/MIME, na kufafanua njia za anri ya OpenSSL na mpangilio orodha wa hati. Faili la ufunguo lililo tengenezwa hapo juu lazima lihifadhiwe kwenye mpangilio orodha ulioonyeshwa hapa. La sivyoo OpenSSL haiwezi kulitumia.

Hatua inayofwata inafanywa kwenye usanidi wa S/MIME katika ukurasa wa Msimamizi wa OTRS. Hapa unaweza kuagiza ufunguo binafsi wa (za) mfumo wa OTRS na funguo za umma za mawasiliano ya wabia wengine. Ingiza ufunguo wa umma ambao umetengenezwa mwanzoni mwa kifungu hiki na kuongezwa kwenye OTRS.

Kwa kawaida, funguo zote za umma za S/MIME za mawasiliano ya washiriki zinaweza kuagizwa kwa kutumia kifaa cha usimamizi wa mteja pia.

5. Using External backends

5.1. Customer Data

OTRS inafanya kazi na sifa nyingi za data za mteja kama jina la mtumiaji, anuani ya barua pepe, nambari ya simu, na kadh. Hizi sifa zinaonyeshwa katika mazingira ya mbele ya Wakala na Mteja, na pia inatumika kwenye uthibitisho wa mteja.

Data za mteja zinazotumika au kuonyeshwa kwenye OTRS zinawezekano mkubwa wa kugeuzwa kukufaa. Taarifa ifuatayo hata hivyo inahitajika muda wote kwa ajili ya uthibitisho wa mteja:

- Mtumiaji ingia
- Anwani ya barua pepe
- Kitambulisho cha mteja

Tumia parameta zifuatazo za SysConfig kama unataka kuonyesha taarifa za mteja katika kiolesura cha wakala wako.

```
# Ticket::Frontend::CustomerInfo*
# (show customer info on Compose (Phone and Email), Zoom and
# Queue view)
$self->{'Ticket::Frontend::CustomerInfoCompose'} = 1;
$self->{'Ticket::Frontend::CustomerInfoZoom'} = 1;
```

Hati: parameta za usanidi za SysConfig.

5.2. Customer User Backend

Unaweza kutumia aina mbili za mazingira ya nyuma ya mtumiaji, DB na LDAP. Kama tayari una mazingira mengine ya nyuma ya mteja (mf. SAP), inawezekana pia kuandika moduli ambayo inaitumia.

5.2.1. Hifadhidata (Chaguo-msingi)

The Example below shows the configuration of a DB customer backend, which uses customer data stored in the OTRS database.

Example 4.7. Usanidi wa hifadhidata ya mazingira ya nyuma ya mteja

```
# CustomerUser (customer database backend and settings)
$self->{CustomerUser} = {
  Name => 'Database Datasource',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the required settings
    # DSN => 'DBI:odbc:yourdsn',
    # Type => 'mssql', # only for ODBC connections
    # DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    # User => '',
    # Password => '',
    # Table => 'customer_user',

    # CaseSensitive will control if the SQL statements need LOWER()
    # function calls to work case insensitively. Setting this to
    # 1 will improve performance dramatically on large databases.
    CaseSensitive => 0,
  },
# customer unique id
CustomerKey => 'login',

# customer #
CustomerID => 'customer_id',
CustomerValid => 'valid_id',
CustomerUserListFields => ['first_name', 'last_name', 'email'],
CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
CustomerUserSearchPrefix => '',
CustomerUserSearchSuffix => '*',
CustomerUserSearchListLimit => 250,
CustomerUserPostMasterSearchFields => ['email'],
CustomerUserNameFields => ['title', 'first_name', 'last_name'],
CustomerUserEmailUniqCheck => 1,
# # show not own tickets in customer panel, CompanyTickets
# CustomerUserExcludePrimaryCustomerID => 0,
# # generate auto logins
# AutoLoginCreation => 0,
# AutoLoginCreationPrefix => 'auto',
# # admin can change customer preferences
# AdminSetPreferences => 1,
# # cache time to live in sec. - cache any database queries
# CacheTTL => 0,
# # just a read only source
# ReadOnly => 1,
# Map => [
# note: Login, Email and CustomerID needed!
```



```

# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
link, readonly, http-link-target
[ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
[ 'UserFirstname', 'Firstname',  'first_name', 1, 1, 'var', '', 0 ],
[ 'UserLastname',  'Lastname',  'last_name',  1, 1, 'var', '', 0 ],
[ 'UserLogin',     'Username',  'login',      1, 1, 'var', '', 0 ],
[ 'UserPassword',  'Password',  'pw',         0, 0, 'var', '', 0 ],
[ 'UserEmail',     'Email',     'email',      1, 1, 'var', '', 0 ],

#      [ 'UserEmail',      'Email', 'email',          1, 1, 'var', "[% Env(\"CGIHandle\")
%]?Action=AgentTicketCompose&ResponseID=1&TicketID=[% Data.TicketID %]&ArticleID=[%
Data.ArticleID %]'", 0 ],
      [ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],

#      [ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],
      [ 'UserPhone',      'Phone',      'phone',      1, 0, 'var', '', 0 ],
      [ 'UserFax',         'Fax',        'fax',        1, 0, 'var', '', 0 ],
      [ 'UserMobile',     'Mobile',     'mobile',     1, 0, 'var', '', 0 ],
      [ 'UserStreet',     'Street',     'street',     1, 0, 'var', '', 0 ],
      [ 'UserZip',        'Zip',        'zip',        1, 0, 'var', '', 0 ],
      [ 'UserCity',       'City',       'city',       1, 0, 'var', '', 0 ],
      [ 'UserCountry',    'Country',    'country',    1, 0, 'var', '', 0 ],
      [ 'UserComment',    'Comment',    'comments',   1, 0, 'var', '', 0 ],
      [ 'ValidID',        'Valid',      'valid_id',   0, 1, 'int', '', 0 ],
],
# default selections
Selections => {
  UserTitle => {
    'Mr.' => 'Mr.',
    'Mrs.' => 'Mrs.',
  },
},
};

```

Ukitaka kugeuza data za mteja kukufaa, badili vichwa vya safuwima au ongeza mpya kwenye jedwali la mteja_mtumiaji kwenye hifadhidata ya OTRS. Kama mfano, hati hapa chini inaonyesha jinsi ya kuongeza sehemu mpya kwa ajili ya nambari ya chumba.

```

linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 116 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD room VARCHAR (250);
Query OK, 1 rows affected (0.01 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#

```

Hati: Kuongeza sehemu ya chumba katika jedwali la mteja_mtumiaji.

Sasa ongeza safuwima mpya kwenye mkusanyiko wa RAMANI katika Kernel/Config.pm, kama inavyoonyeshwa katika hati inayofuata.

```

# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[...
[ 'UserRoom',      'Room',      'room',      0, 1, 'var', '', 0 ],

```

Hati: Kuongeza sehemu ya chumba kweye faili Kernel/Config.pm.

Pia inawezekana kuhariri taarifa zote za mteja kupitia kiungo cha mteja kwenye kiolesura cha Wakala.

5.2.1.1. Customer with Multiple IDs (Company Tickets)

Inawezekana kugawia zaidi ya kitambulisho cha mteja kimoja kwa mteja. Hii inakuwa na manufaa kama mteja anatakiwa kufikia tiketi za wateja wengine, mf. msimamizi anataka kuangalia tiketi za wasaidizi wake. Kama mteja anaweza kufikia tiketi za mteja mwingine, kipengele cha tiketi za kampuni cha OTRS kinatumika. Tiketi za kampuni zinaweza kufikiwa kupitia kiungo "Tiketi za Kampuni" katika paneli ya wateja.

Kutumia tiketi za kampuni, safuwima mpya yenye Vitambulisho ambavyo vinaweza kufikiwa na mteja, inabidi viongezwe kwenye jedwali la mteja_mtumiaji katika hifadhidata ya OTRS (ona Hati chini).

```
linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 124 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD customer_ids VARCHAR (250);
Query OK, 1 rows affected (0.02 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#
```

Hati: Kuongeza sehemu ya mteja_vitambulisho kwenye jedwali la mteja_mtumiaji.

Sasa safuwima mpya inabidi iongezwe kwenye mkusanyiko wa RAMANI katika Kernel/Config.pm, kama ilivyoonyeshwa kwenye hati chini.

```
# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[...]
[ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],
```

Hati: Kuongeza sehemu ya Vitambulisho vya MtumiajiMteja kwenye faili Kernel/Config.pm.

Sasa safuwima mpya kwa ajili ya Vitambulisho vingi vya mteja inaweza kuhaririwa kupitia kiolesura cha Wakala, katika kifungu cha usimamizi wa mteja.

To ensure that one customer can access the tickets of other customers, add the IDs of these other users into the new field for the multiple customer IDs. Each ID has to be separated by a semicolon (see Example below).

Example 4.8. Using Company Tickets with a DB Backend

Wateja A,B na C wapo kwenye mfumo wako, na A anataka kufikia tiketi za B na C kupitia paneli ya mteja. B na C hawatakiwi kufikia tiketi za watumiaji wengine.

Kutambua mpangilio huu, badilisha jedwali la mteja_mtumiaji na miunganiko katika Kernel/Config.pm kama ilivyoielezwa hapo juu. Kisha pakia mipangilio ya mteja A kupitia kiungo cha Mteja katika kiolesura cha Wakala au kupitia kurasa ya Msimamizi. Kama

mipangilio imeonyeshwa, ongeza kwenye sehemu ya Vitambulisho vya Wateja thamani "B;C".

5.2.2. LDAP

If you have an LDAP directory with your customer data, you can use it as the customer backend with OTRS, as shown in Example below.

Example 4.9. Usanidi wa LDAP ya mazingira yanyuma ya mteja

```
# CustomerUser
# (customer ldap backend and settings)
$self->{CustomerUser} = {
  Name => 'LDAP Data Source',
  Module => 'Kernel::System::CustomerUser::LDAP',
  Params => {
    # ldap host
    Host => 'bay.csuhayward.edu',
    # ldap base dn
    BaseDN => 'ou=seas,o=csuh',
    # search scope (one|sub)
    SSCOPE => 'sub',
    # The following is valid but would only be necessary if the
    # anonymous user does NOT have permission to read from the LDAP tree
    UserDN => '',
    UserPw => '',
    # in case you want to add always one filter to each ldap query, use
    # this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter =>
    '(objectclass=user)'
    AlwaysFilter => '',
    # if the charset of your ldap server is iso-8859-1, use this:
    SourceCharset => 'iso-8859-1',

    # Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
    Params => {
      port => 389,
      timeout => 120,
      async => 0,
      version => 3,
    },
  },
  # customer unique id
  CustomerKey => 'uid',
  # customer #
  CustomerID => 'mail',
  CustomerUserListFields => ['cn', 'mail'],
  CustomerUserSearchFields => ['uid', 'cn', 'mail'],
  CustomerUserSearchPrefix => '',
  CustomerUserSearchSuffix => '*',
  CustomerUserSearchListLimit => 250,
  CustomerUserPostMasterSearchFields => ['mail'],
  CustomerUserNameFields => ['givenname', 'sn'],
  # show not own tickets in customer panel, CompanyTickets
  CustomerUserExcludePrimaryCustomerID => 0,
  # add an ldap filter for valid users (expert setting)
  CustomerUserValidFilter => '!(description=locked)',
  # administrator can't change customer preferences
  AdminSetPreferences => 0,
  # # cache time to live in sec. - cache any database queries
  # CacheTTL => 0,
  Map => [
    # note: Login, Email and CustomerID are mandatory!
    # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
    link, readonly
    [ 'UserTitle',      'Title',      'title',          1, 0, 'var', '', 0 ],
    [ 'UserFirstname', 'Firstname',  'givenname',     1, 1, 'var', '', 0 ],
    [ 'UserLastname',  'Lastname',  'sn',            1, 1, 'var', '', 0 ],
    [ 'UserLogin',     'Username',  'uid',           1, 1, 'var', '', 0 ],
    [ 'UserEmail',     'Email',    'mail',          1, 1, 'var', '', 0 ],
  ],
}
```

```
# [ 'UserCustomerID', 'CustomerID', 'mail', 0, 1, 'var', '', 0 ],
[ 'UserCustomerIDs', 'CustomerIDs', 'second_customer_ids', 1, 0, 'var', '', 0 ],
[ 'UserPhone', 'Phone', 'telephonenumber', 1, 0, 'var', '', 0 ],
[ 'UserAddress', 'Address', 'postaladdress', 1, 0, 'var', '', 0 ],
[ 'UserComment', 'Comment', 'description', 1, 0, 'var', '', 0 ],
],
};
```

Kama sifa za ziada za mteja zimehifadhiwa kwenye mpangilio orodha wa LDAP yako, kwa mfano jina la meneja, namba ya simu ya mkononi, au idara, na kama unataka kuonyesha taarifa hizi kwenye OTRS, panua mkusanyiko wa RAMANI kwenye Kernel/Config.pm na maingizo kwa sifa hizi, kama ilivyoonyeshwa kwenye hati ifuatayo.

```
# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[... ]
[ 'UserPhone', 'Phone', 'telephonenumber', 1, 0, 'var', '', 0 ],
```

Hati: Kuongeza sehemu mpya kwenye Kernel/Config.pm file.

5.2.2.1. Customer with Multiple IDs (Company Tickets)

Inawezekana kugawia zaidi ya Kitambulisho kimoja cha Mteja kwa mteja, ukiwa unatumia mazingira ya nyuma ya LDAP. Kutumia tiketi za kampuni, sehemu mpya inabidi iongezwe kwenye mpangilio orodha wa LDAP ambayo ina vitambulisho vinavyofikika na mteja.

Kama sehemu mpya kwenye mpangilio orodha wa LDAP imetengenezwa, ingizo jipya inabidi liongezwe kwenye mkusanyiko wa RAMANI katika Kernel/Config.pm, kama ilivyoonyeshwa kwenye hati chini.

```
# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[... ]
[ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],
```

Hati: Kuunganisha sehemu mpya kwenye Kernel/Config.pm file.

Sehemu kwa ajili ya vitambulisho vingi vya mteja inabidi kuhaririwa moja kwa moja katika mpangilio orodha wa LDAP. OTRS inaweza kusoma tu kutoka kwenye LDAP, sio kuandika.

To ensure access by a customer to the tickets of other customers, add the customer IDs of the customers whose tickets should be accessed to the new field in your LDAP directory. Each ID has to be separated by a semicolon (see Example below).

Example 4.10. Kutumia tiketi za Kampuni na mazingira ya nyuma ya LDAP

Wateja A,B na C wapo kwenye mfumo wako, na A anataka kufikia tiketi za B na C kupitia paneli ya mteja. B na C hawatakiwi kufikia tiketi za watumiaji wengine.

Kutambua mpangilio huu, badilisha mpangilio orodha wa LDAP na miunganiko katika Kernel/Config.pm kama ilivyoielezwa juu. Kisha ongeza kwenye sehemu ya Vitambulisho vya wateja thamani "B;C" kwa mteja A katika mpangilio orodha wa LDAP.

5.2.3. Using More than One Customer Backend with OTRS

If you want to utilize more than one customer data source used with OTRS (e.g. an LDAP and a database backend), the CustomerUser config parameter should be expanded with a number, e.g. "CustomerUser1", "CustomerUser2" (see Example below).

Example 4.11. Kutumia zaidi ya mazingira ya nyuma ya mteja ya aina moja na OTRS

Mfano unaofuata wa usanidi unaonyesha matumizi ya mazingira ya nyuma ya mteja ya LDAP na hifadhidata katika OTRS.

```
# 1. Customer user backend: DB
# (customer database backend and settings)
$self->{CustomerUser1} = {
  Name => 'Customer Database',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the
    # required settings
    # DSN => 'DBI:odbc:yourdsn',
    # Type => 'mssql', # only for ODBC connections
    # DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    # User => '',
    # Password => '',
    Table => 'customer_user',
  },
  # customer unique id
  CustomerKey => 'login',
  # customer #
  CustomerID => 'customer_id',
  CustomerValid => 'valid_id',
  CustomerUserListFields => ['first_name', 'last_name', 'email'],
  CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
  CustomerUserSearchPrefix => '',
  CustomerUserSearchSuffix => '*',
  CustomerUserSearchListLimit => 250,
  CustomerUserPostMasterSearchFields => ['email'],
  CustomerUserNameFields => ['title', 'first_name', 'last_name'],
  CustomerUserEmailUniqCheck => 1,
  # # show not own tickets in customer panel, CompanyTickets
  # CustomerUserExcludePrimaryCustomerID => 0,
  # # generate auto logins
  # AutoLoginCreation => 0,
  # AutoLoginCreationPrefix => 'auto',
  # # admin can change customer preferences
  # AdminSetPreferences => 1,
  # # cache time to live in sec. - cache any database queries
  # CacheTTL => 0,
  # # just a read only source
  # ReadOnly => 1,
  Map => [

    # note: Login, Email and CustomerID needed!
    # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
    link, readonly, http-link-target
    [ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
    [ 'UserFirstname', 'Firstname',  'first_name', 1, 1, 'var', '', 0 ],
    [ 'UserLastname',  'Lastname',  'last_name',  1, 1, 'var', '', 0 ],
    [ 'UserLogin',     'Username',  'login',      1, 1, 'var', '', 0 ],
    [ 'UserPassword',  'Password',  'pw',         0, 0, 'var', '', 0 ],
    [ 'UserEmail',     'Email',     'email',      1, 1, 'var', '', 0 ],
    [ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],
    [ 'UserPhone',     'Phone',     'phone',      1, 0, 'var', '', 0 ],
    [ 'UserFax',       'Fax',       'fax',        1, 0, 'var', '', 0 ],
    [ 'UserMobile',    'Mobile',    'mobile',     1, 0, 'var', '', 0 ],
    [ 'UserStreet',    'Street',    'street',     1, 0, 'var', '', 0 ],
    [ 'UserZip',       'Zip',       'zip',        1, 0, 'var', '', 0 ],
    [ 'UserCity',      'City',      'city',       1, 0, 'var', '', 0 ],
    [ 'UserCountry',   'Country',   'country',    1, 0, 'var', '', 0 ],
    [ 'UserComment',   'Comment',   'comments',   1, 0, 'var', '', 0 ],
    [ 'ValidID',       'Valid',     'valid_id',   0, 1, 'int', '', 0 ],
  ],
  # default selections
  Selections => {
    UserTitle => {
```

```

        'Mr.' => 'Mr.',
        'Mrs.' => 'Mrs.',
    },
},
};

# 2. Customer user backend: LDAP
# (customer ldap backend and settings)
$self->{CustomerUser2} = {
    Name => 'LDAP Datasource',
    Module => 'Kernel::System::CustomerUser::LDAP',
    Params => {
        # ldap host
        Host => 'bay.csuhayward.edu',
        # ldap base dn
        BaseDN => 'ou=seas,o=csuh',
        # search scope (one|sub)
        SSCOPE => 'sub',
        # The following is valid but would only be necessary if the
        # anonymous user does NOT have permission to read from the LDAP tree
        UserDN => '',
        UserPw => '',
        # in case you want to add always one filter to each ldap query, use
        # this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter =>
        '(objectclass=user)'
        AlwaysFilter => '',
        # if the charset of your ldap server is iso-8859-1, use this:
        SourceCharset => 'iso-8859-1',
    },

    # Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
    Params => {
        port => 389,
        timeout => 120,
        async => 0,
        version => 3,
    },
},
# customer unique id
CustomerKey => 'uid',
# customer #
CustomerID => 'mail',
CustomerUserListFields => ['cn', 'mail'],
CustomerUserSearchFields => ['uid', 'cn', 'mail'],
CustomerUserSearchPrefix => '',
CustomerUserSearchSuffix => '*',
CustomerUserSearchListLimit => 250,
CustomerUserPostMasterSearchFields => ['mail'],
CustomerUserNameFields => ['givenname', 'sn'],
# show not own tickets in customer panel, CompanyTickets
CustomerUserExcludePrimaryCustomerID => 0,
# add a ldap filter for valid users (expert setting)
# CustomerUserValidFilter => '(!description=locked)',
# admin can't change customer preferences
AdminSetPreferences => 0,
Map => [
    # note: Login, Email and CustomerID needed!
    # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
    link, readonly
    [ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
    [ 'UserFirstname', 'Firstname',  'givenname',  1, 1, 'var', '', 0 ],
    [ 'UserLastname',  'Lastname',  'sn',        1, 1, 'var', '', 0 ],
    [ 'UserLogin',     'Username',  'uid',       1, 1, 'var', '', 0 ],
    [ 'UserEmail',     'Email',    'mail',      1, 1, 'var', '', 0 ],
    [ 'UserCustomerID', 'CustomerID', 'mail',      0, 1, 'var', '', 0 ],
#    [ 'UserCustomerIDs', 'CustomerIDs', 'second_customer_ids', 1, 0, 'var', '', 0 ],
    [ 'UserPhone',     'Phone',    'telephonenumber', 1, 0, 'var', '', 0 ],
    [ 'UserAddress',   'Address',  'postaladdress', 1, 0, 'var', '', 0 ],
    [ 'UserComment',   'Comment',  'description', 1, 0, 'var', '', 0 ],
],
};

```

Inawezekana kuunganisha mpaka mazingira ya nyuma 10 tofauti ya mteja. Tumia kilesura cha usimamizi cha mteja katika OTRS kuona au kuhariri (tukiamini utawala data umewezeshwa) data zote za mteja.

5.2.4. Storing CustomerUser Data in Dynamic Fields

Mara nyingine inaweza kuwa na manufaa kuhifadhi data za MtejaMtumiaji katika sehemu zinazobadilika za tiketi, kwa fano kutengeneza takwimu muhimu kwenye data hizi.

Thamani za sehemu zinazobadilika zinasetiwa tiketi inapotengenezwa au pale mteja wa tiketi anapobadilishwa. Thamani za sehemu zinazobadilika zinachukuliwa kutoka kwenye data za mteja. Hii inafanya kazi kwa mazingira yoye ya nyuma, lakini ni ya manufaa zaidi kwa mazingira aya nyuma ya LDAP.

Kuamilisha hiki kipengele cha hiari cha OTRS, tafadhali amilisha mipangilio "Tiketi::ModuliTukioTuma###930-SehemuInayobadilikaKutokaKwaMtejaMtumiaji" na "SehemuInayobadilikaKutokaKwaMtejaMtumiaji::Kuunganisha". Mpangilio wa mwisho una usanidi ambao ingizo la sehemu ya MtumiajiMteja linatakiwa kuhifadhiwa katika sehemu inayobadilika ya tiketi. Sehemu inabidi ziwepo kwenye mfumo na zinatakiwa kuwezesha kwa ajili ya WakalaTiketiHuruNakala, ili zisetiwe kwa mikono. Hazitakiwa kuwezesha kwa ajili ya WakalaTiketiSimu, WakalaTiketiBaruapepe na WakalaTiketiMteja. Kama zilikuwa, inabidi zitangulie thamani zilizosetiwa kiotomatiki.

5.3. Backends to Authenticate Agents and Customers

OTRS inatoa chaguo la kuthibitisha mawakala na wateja katika mazingira tofauti ya nyuma.

5.3.1. Mazingira ya nyuma ya kuthibitisha Mawakala

5.3.1.1. DB (Chaguo-msingi)

The backend to authenticate agents which is used by default is the OTRS database. Agents can be added and edited via the agent management interface in the Admin page (see Example below).

Example 4.12. Thibitisha mawakala katika mazingira ya nyuma ya DB.

```
$Self->{'AuthModule'} = 'Kernel::System::Auth::DB';
```

5.3.1.2. LDAP

If an LDAP directory has all your agent data stored, you can use the LDAP module to authenticate your users in OTRS (see Example below). This module has only read access to the LDAP tree, which means that you cannot edit your user data via the agent management interface.

Example 4.13. Thibitisha mawakala katika mazingira ya nyuma ya LDAP.

```
# This is an example configuration for an LDAP auth. backend.  
# (Make sure Net::LDAP is installed!)
```

```

$Self->{'AuthModule'} = 'Kernel::System::Auth::LDAP';
$Self->{'AuthModule::LDAP::Host'} = 'ldap.example.com';
$Self->{'AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';
$Self->{'AuthModule::LDAP::UID'} = 'uid';

# Check if the user is allowed to auth in a posixGroup
# (e. g. user needs to be in a group xyz to use otrs)
$Self->{'AuthModule::LDAP::GroupDN'} = 'cn=otrsallow,ou=posixGroups,dc=example,dc=com';
$Self->{'AuthModule::LDAP::AccessAttr'} = 'memberUid';
# for ldap posixGroups objectclass (just uid)
# $Self->{'AuthModule::LDAP::UserAttr'} = 'UID';
# for non ldap posixGroups objectclass (with full user dn)
# $Self->{'AuthModule::LDAP::UserAttr'} = 'DN';

# The following is valid but would only be necessary if the
# anonymous user do NOT have permission to read from the LDAP tree
$Self->{'AuthModule::LDAP::SearchUserDN'} = '';
$Self->{'AuthModule::LDAP::SearchUserPw'} = '';

# in case you want to add always one filter to each ldap query, use
# this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter => '(objectclass=user)'
$Self->{'AuthModule::LDAP::AlwaysFilter'} = '';

# in case you want to add a suffix to each login name, then
# you can use this option. e. g. user just want to use user but
# in your ldap directory exists user@domain.com
# $Self->{'AuthModule::LDAP::UserSuffix'} = '@domain.com';

# Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
$Self->{'AuthModule::LDAP::Params'} = {
    port => 389,
    timeout => 120,
    async => 0,
    version => 3,
};

```

Mipangilio ya usanidi iliyoonyeshwa kwenye hati hapo chini inaweza kutumika kulanishia data zote za mtumiaji kutoka kwenye mpangilio orodha wako wa LDAP kwenda kwenye hifadhidata yako ya OTRS ya ndani. Hii inapunguza idadi ya maombi kwenda kwenye seva yako ya LDAP na inaongeza kasi ya uthibitisho na OTRS. Ulandanishi wa data unafanyika pale wakala anapojithibitisha kwa mara ya kwanza. Hata hivyo hiyo data inaweza kulandanishwa na hifadhidata ya ndani ya OTRS, mpangilio orodha wa LDAP ni mfano wa mwisho wa uthibitisho, kwa hiyo mtumiaji aliye lemaa aliye katika matawi ya LDAP hawezi kujithibitisha kwenye OTRS, hata kama data za akaunti tayari zimehifadhiwa kwenye hifadhidata ya OTRS. Data za wakala kwenye mpangilio orodha wa LDAP haziwezi kuhaririwa kupitia kiolesura cha tovuti cha OTRS, kwa hiyo data inabidi isimamiwe moja kwa moja katika matawi ya LDAP.

```

# defines AuthSyncBackend (AuthSyncModule) for AuthModule
# if this key exists and is empty, there won't be a sync.
# example values: AuthSyncBackend, AuthSyncBackend2
$Self->{'AuthModule::UseSyncBackend'} = 'AuthSyncBackend';

# agent data sync against ldap
$Self->{'AuthSyncModule'} = 'Kernel::System::Auth::Sync::LDAP';
$Self->{'AuthSyncModule::LDAP::Host'} = 'ldap://ldap.example.com/';
$Self->{'AuthSyncModule::LDAP::BaseDN'} = 'dc=otrs, dc=org';
$Self->{'AuthSyncModule::LDAP::UID'} = 'uid';
$Self->{'AuthSyncModule::LDAP::SearchUserDN'} = 'uid=sys, ou=user, dc=otrs, dc=org';
$Self->{'AuthSyncModule::LDAP::SearchUserPw'} = 'some_pass';
$Self->{'AuthSyncModule::LDAP::UserSyncMap'} = {
    # DB -> LDAP
    UserFirstname => 'givenName',
    UserLastname  => 'sn',
    UserEmail     => 'mail',
};
[...];

# AuthSyncModule::LDAP::UserSyncInitialGroups

```



```
# (sync following group with rw permission after initial create of first agent
# login)
$Self->{'AuthSyncModule::LDAP::UserSyncInitialGroups'} = [
  'users',
];
```

Hati: Kulandanisha data za mtumiaji kutoka kwenye mpangilio orodha wa LDAP kwenda kwenye hifadhidata ya OTRS.

Alternatively, you can use LDAP groups to determine group memberships or roles in OTRS. For more information and examples, see `Kernel/Config/Defaults.pm`. Here is an example for synchronizing from LDAP into OTRS groups.

```
# Attributes needed for group syncs
# (attribute name for group value key)
$Self->{'AuthSyncModule::LDAP::AccessAttr'} = 'memberUid';
# (select the attribute for type of group content UID/DN for full ldap name)
# $Self->{'AuthSyncModule::LDAP::UserAttr'} = 'UID';
# $Self->{'AuthSyncModule::LDAP::UserAttr'} = 'DN';

AuthSyncModule::LDAP::UserSyncGroupsDefinition
# (If "LDAP" was selected for AuthModule and you want to sync LDAP
# groups to otrs groups, define the following.)
$Self->{'AuthSyncModule::LDAP::UserSyncGroupsDefinition'} = {
  # your ldap group
  'cn=agent,o=otrs' => {
    # otrs group(s)
    'admin' => {
      # permission
      rw => 1,
      ro => 1,
    },
    'faq' => {
      rw => 0,
      ro => 1,
    },
  },
  'cn=agent2,o=otrs' => {
    'users' => {
      rw => 1,
      ro => 1,
    },
  },
};
```

5.3.1.3. HTTPBasicAuth za Wakala

If you want to implement a "single sign on" solution for all your agents, you can use HTTP basic authentication (for all your systems) and the HTTPBasicAuth module for OTRS (see Example below).

Example 4.14. Halalisha Wakala kwa kutumia HTTPBasic

```
# This is an example configuration for an apache ($ENV{REMOTE_USER})
# auth. backend. Use it if you want to have a single login through
# apache http-basic-auth
$Self->{'AuthModule'} = 'Kernel::System::Auth::HTTPBasicAuth';

# Note:
#
# If you use this module, you should use as fallback
# the following configuration settings if the user is not authorized
# apache ($ENV{REMOTE_USER})
$Self->{'LoginURL'} = 'http://host.example.com/not-authorized-for-otrs.html';
$Self->{'LogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';
```


5.3.1.4. Nusukipenyo

The configuration parameters shown in Example below can be used to authenticate agents against a Radius server.

Example 4.15. Thibitisha mawakala katika mazingira ya nyuma ya Radius.

```
# This is example configuration to auth. agents against a radius server
$self->{'AuthModule'} = 'Kernel::System::Auth::Radius';
$self->{'AuthModule::Radius::Host'} = 'radiushost';
$self->{'AuthModule::Radius::Password'} = 'radiussecret';
```

5.3.2. Authentication Backends for Customers

5.3.2.1. Hifadhidata (Chaguo-msingi)

The default user authentication backend for customers in OTRS is the OTRS database. With this backend, all customer data can be edited via the web interface of OTRS (see Example below).

Example 4.16. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya DB

```
# This is the auth. module against the otrs db
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::DB';
$self->{'Customer::AuthModule::DB::Table'} = 'customer_user';
$self->{'Customer::AuthModule::DB::CustomerKey'} = 'login';
$self->{'Customer::AuthModule::DB::CustomerPassword'} = 'pw';
$self->{'Customer::AuthModule::DB::DSN'} =
  "DBI:mysql:database=customerdb;host=customerdbhost";
$self->{'Customer::AuthModule::DB::User'} = "some_user";
$self->{'Customer::AuthModule::DB::Password'} = "some_password";
```

5.3.2.2. LDAP

If you have an LDAP directory with all your customer data, you can use the LDAP module to authenticate your customers to OTRS (see Example below). Because this module has only read-access to the LDAP backend, it is not possible to edit the customer data via the OTRS web interface.

Example 4.17. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya LDAP

```
# This is an example configuration for an LDAP auth. backend.
# (make sure Net::LDAP is installed!)
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::LDAP';
$self->{'Customer::AuthModule::LDAP::Host'} = 'ldap.example.com';
$self->{'Customer::AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';
$self->{'Customer::AuthModule::LDAP::UID'} = 'uid';

# Check if the user is allowed to auth in a posixGroup
# (e. g. user needs to be in a group xyz to use otrs)
$self->{'Customer::AuthModule::LDAP::GroupDN'} =
  'cn=otrsallow,ou=posixGroups,dc=example,dc=com';
$self->{'Customer::AuthModule::LDAP::AccessAttr'} = 'memberUid';
# for ldap posixGroups objectclass (just uid)
$self->{'Customer::AuthModule::LDAP::UserAttr'} = 'UID';
# for non ldap posixGroups objectclass (full user dn)
$self->{'Customer::AuthModule::LDAP::UserAttr'} = 'DN';
```

```
# The following is valid but would only be necessary if the
# anonymous user does NOT have permission to read from the LDAP tree
$self->{'Customer::AuthModule::LDAP::SearchUserDN'} = '';
$self->{'Customer::AuthModule::LDAP::SearchUserPw'} = '';

# in case you want to add always one filter to each ldap query, use
# this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter => '(objectclass=user)'
$self->{'Customer::AuthModule::LDAP::AlwaysFilter'} = '';

# in case you want to add a suffix to each customer login name, then
# you can use this option. e. g. user just want to use user but
# in your ldap directory exists user@domain.com
#$self->{'Customer::AuthModule::LDAP::UserSuffix'} = '@domain.com';

# Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
$self->{'Customer::AuthModule::LDAP::Params'} = {
    port => 389,
    timeout => 120,
    async => 0,
    version => 3,
};
```

5.3.2.3. HTTPBasicAuth for Customers

If you want to implement a "single sign on" solution for all your customer users, you can use HTTPBasic authentication (for all your systems) and use the HTTPBasicAuth module with OTRS (no login is needed with OTRS any more). See Example below.

Example 4.18. Uthibitisho wa Mteja kwa kutumia HTTPBasic

```
# This is an example configuration for an apache ($ENV{REMOTE_USER})
# auth. backend. Use it if you want to have a single login through
# apache http-basic-auth
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::HTTPBasicAuth';

# Note:
# If you use this module, you should use the following
# config settings as fallback, if user isn't login through
# apache ($ENV{REMOTE_USER})
$self->{'CustomerPanelLoginURL'} = 'http://host.example.com/not-authorized-for-otrs.html';
$self->{'CustomerPanelLogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';
```

5.3.2.4. Nusukipenyo

The settings shown in Example below can be used to authenticate your customers against a Radius server.

Example 4.19. Uthibitisho wa mtumiaji mteja katika mazingira ya nyuma ya Radius

```
# This is an example configuration to auth. customer against a radius server
$self->{'Customer::AuthModule'} = 'Kernel::System::Auth::Radius';
$self->{'Customer::AuthModule::Radius::Host'} = 'radiushost';
$self->{'Customer::AuthModule::Radius::Password'} = 'radiussecret';
```

5.4. Customizing the Customer Self-Registration

Inawezekana kugeuza kukufaa usajili binafsi kwa ajili ya wateja wapya, inafikika kupitia paneli ya customer.pl. Sehemu mpya za hiari au zinazohitajika, kama nambari ya chumba, anwani au hali zinaweza kuongezwa.

Mfano ufwatao unaonyesha jinsi unaweza kubainisha sehemu inayohitajika katika hifadhi data ya mteja, katika kesi hii hifadhi nambari ya chumba cha mteja.

5.4.1. Customizing the Web Interface

Kuonyesha sehemu mpya ya nambari ya chumba katika kiolesura cha tovuti cha customer.pl, faili la .dtl ambalo lina jukumu la muonekano katika hiki kiolesura lazima libadilishwe. Hariri faili la Kernel/Output/HTML/Standard/CustomerLogin.dtl, ongeza sehemu mpya maeneo ya mstari wa 80 (ona Hati chini).

```
[...]
<div class="NewLine">
  <label for="Room">[% Translate("Room{CustomerUser}") | html %]</label>
  <input title="[% Translate("Room Number") | html %]" name="Room" type="text"
  id="UserRoom" maxlength="50" />
</div>
[...]
```

Hati: Kuonyesha sehemu mpya katika kiolesura cha wavuti.

5.4.2. Customer Mapping

Katika hatua inayofuata, muunganiko wa mteja inabidi upanuliwe na ingizo jipya kutoka kwenye nambari mpya. Kuhakikisha kwamba mabadiliko hayapotei baada ya usasishaji, weka mipangilio ya "MtumiajiMteja" kutoka kwenye Kernel/Config/Defaults.pm kwenye Kernel/Config.pm. Sasa badilisha mkusanyiko wa RAMANI na ongeza sehemu mpya ya nambari ya chumba, kama ilivyoonyeshwa kwenye hati chini.

```
# CustomerUser
# (customer database backend and settings)
$self->{CustomerUser} = {
  Name => 'Database Backend',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the
    # required settings
    # DSN => 'DBI:odbc:yourdsn',
    # Type => 'mssql', # only for ODBC connections
    # DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    # User => '',
    # Password => '',
    Table => 'customer_user',
  },
  # customer unique id
  CustomerKey => 'login',
  # customer #
  CustomerID => 'customer_id',
  CustomerValid => 'valid_id',
  CustomerUserListFields => ['first_name', 'last_name', 'email'],
  # CustomerUserListFields => ['login', 'first_name', 'last_name', 'customer_id', 'email'],
  CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
  CustomerUserSearchPrefix => '',
  CustomerUserSearchSuffix => '*',
  CustomerUserSearchListLimit => 250,
  CustomerUserPostMasterSearchFields => ['email'],
  CustomerUserNameFields => ['title', 'first_name', 'last_name'],
  CustomerUserEmailUniqCheck => 1,
  # # show not own tickets in customer panel, CompanyTickets
  # CustomerUserExcludePrimaryCustomerID => 0,
  # generate auto logins
  # AutoLoginCreation => 0,
  # AutoLoginCreationPrefix => 'auto',
  # # admin can change customer preferences
  # AdminSetPreferences => 1,
  # # cache time to live in sec. - cache database queries
  # CacheTTL => 0,
```

```
# # just a read only source
# ReadOnly => 1,
# Map => [
# note: Login, Email and CustomerID needed!
# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
link, readonly, http-link-target
[ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
[ 'UserFirstname', 'Firstname',  'first_name', 1, 1, 'var', '', 0 ],
[ 'UserLastname',  'Lastname',   'last_name',  1, 1, 'var', '', 0 ],
[ 'UserLogin',     'Username',   'login',      1, 1, 'var', '', 0 ],
[ 'UserPassword',  'Password',   'pw',         0, 0, 'var', '', 0 ],
[ 'UserEmail',     'Email',      'email',      1, 1, 'var', '', 0 ],
[ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],
[ 'UserPhone',     'Phone',      'phone',      1, 0, 'var', '', 0 ],
[ 'UserFax',       'Fax',        'fax',        1, 0, 'var', '', 0 ],
[ 'UserMobile',    'Mobile',     'mobile',     1, 0, 'var', '', 0 ],
[ 'UserRoom',      'Room',       'room',       1, 0, 'var', '', 0 ],
[ 'UserStreet',    'Street',     'street',     1, 0, 'var', '', 0 ],
[ 'UserZip',       'Zip',        'zip',        1, 0, 'var', '', 0 ],
[ 'UserCity',      'City',       'city',       1, 0, 'var', '', 0 ],
[ 'UserCountry',   'Country',    'country',    1, 0, 'var', '', 0 ],
[ 'UserComment',   'Comment',    'comments',   1, 0, 'var', '', 0 ],
[ 'ValidID',       'Valid',      'valid_id',   0, 1, 'int', '', 0 ],
],
# default selections
Selections => {
  UserTitle => {
    'Mr.' => 'Mr.',
    'Mrs.' => 'Mrs.',
  },
},
};
```

Hati: Kubadilisha miunganiko ya mkusanyiko.

5.4.3. Customizing the customer_user Table in the OTRS DB

Hatua ya mwisho ni kuongeza nambari mpya ya safuwima ya chumba katika jedwali la mteja_mtumiaji kwenye hifadhidata ya OTRS (ona Kielelezo chini). Katika safuwima hii, maingizo ya nambari ya chumba yatahifadhiwa.

```
linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD room VARCHAR (200);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#
```

Hati: Kuongeza safuwima mpya kwenye jedwali la mteja_mtumiaji.

Now the new field for the room should be displayed in the Customer Information panel if filled, and in the Customer User administration screens. Also, new customers should have to insert their room number if they register a new account.

6. Mipangilio ya tiketi

6.1. Hali za Tiketi

6.1.1. Hali zilizofasiliwa kabla

OTRS inakuruhusu kubadilisha hali ya tiketi iliyofafanuliwa tayari na aina zake, au hata kuongeza mpya. Sifa mbili ni muhimu kwa ajili ya hali: jina la hali na aina ya hali.

Hali chaguo-msingi ya OTRS ni: 'imefungwa kwa mafanikio', 'imefungwa pasipo mafanikio', 'unganishwa', 'mpya', 'wazi', 'inasubiri kufunga otomatiki+', 'inasubiri kufunga otomatiki-', 'inasumbiri kikumbusho' na 'ondolewa'.

6.1.1.1. Mpya

Tiketi huwa katika hali hii kama zimetengenezwa kutoka kwenye barua pepe zinazolingia.

6.1.1.2. Wazi

Hii ndio chaguo-msingi la hali ya tiketi zilizo chini ya foleni na wakala.

6.1.1.3. Kikumbusho kinachosubiri

Baada ya muda wa kusubiri kuisha, mmiliki wa tiketi atapokea kikumbusho cha barua pepe kuhusu tiketi. Kama tiketi haijafungwa, kikumbusho kitatumwa kwa mawakala wote kwenye foleni. Tiketi za ukumbusho zitatumwa tu katika masaa ya biashara, na kurudia kutumwa kila masaa 24 mpaka hali ya tiketi itakapobadilishwa na wakala. Muda uliotumika na tiketi katika hali hii utajumlishwa kwenye mahesabu ya muda wa kupanda.

6.1.1.4. Funga otomatiki inasubiri-

Tiketi katika hali hii zitasetiwa kuwa "Hazijafungwa Kikamilifu" kama muda wa kusubiri umeisha. Muda uliotumiwa na tiketi katika hali hii utaongezwa kwenye mahesabu ya muda wa kupanda.

6.1.1.5. Funga otomatiki inasubiri+

Tiketi katika hali hii zitasetiwa kuwa "Zimefungwa Kikamilifu" kama muda wa kusubiri umeisha. Muda uliotumiwa na tiketi katika hali hii utaongezwa kwenye mahesabu ya muda wa kupanda.

6.1.1.6. Unganishwa

Hii ni hali ya tiketi zilizounganishwa na tiketi nyingine.

6.1.1.7. Imafungwa kwa Mafanikio

Hii ni hali ya mwisho kwa tiketi ambazo zimesuluhishwa kwa mafanikio. Kutegemeana na usanidi wako, unaweza au usiweze kufungua upya tiketi zilizofungwa.

6.1.1.8. Imefungwa Pasipo Mafanikio

Hii ni hali ya mwisho kwa tiketi ambazo HAZIJASULUHISHWA kwa mafanikio. Kutegemeana na usanidi wako, unaweza au usiweze kufungua upya tiketi zilizofungwa.

6.1.2. Kugeuza hali kukufaa

Every state has a name (state-name) and a type (state-type). Click on the States link on the Admin page and press the button "Add state" to create a new state. You can freely

choose the name of a new state. The state types can not be changed via the web interface. The database has to be directly modified if you want to add new types or change existing names. The default state types should typically not be modified as this can yield unpredictable results. For instance, escalation calculations and the unlock feature are based on specific state types.

Jina la hali iliyopo tayari linaweza kubadilishwa, au hali mpya zilizoongezwa kupitia hii skrini. Kama hali "mpya" imebadilishwa kupitia hiki kiolesura cha tovuti, haya mabadiliko pia lazima yafanyiwe usanidi kupitia faili la usanidi Kernel/Config.pm au kupitia kiolesura cha SysConfig. Mipangilio iliyowekwa bayana katika hati chini lazima ibadilishwe kuhakikisha OTRS inafanya kazi na hali iliyobadilishwa kwa ajili ya "mpya".

```
[...]
# PostmasterDefaultState
# (The default state of new tickets.) [default: new]
$self->{PostmasterDefaultState} = 'new';

# CustomerDefaultState
# (default state of new customer tickets)
$self->{CustomerDefaultState} = 'new';
[...]
```

Hati: Kubadilisha mipangilio ya Kernel/Config.pm.

Kama aina mpya ya hali inatakiwa kuongezwa, Jedwali la tiketi_hali_aina katika hifadhidata ya OTRS inahitaji kubadilishwa na programu ya hifadhidata ya mteja, kama ilivyoonyeshwa kwenye hati chini.

```
linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 23 to server version: 5.0.16-Debian_1-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> insert into ticket_state_type (name,comments) values ('own','Own
state type');
Query OK, 1 row affected (0.00 sec)

mysql> quit
Bye
linux:~#
```

Hati: Kurekebisha hifadhidata ya OTRS .

Sasa inawezekana kutumia aina mpya za hali ulizotengeneza. Baada ya hali kuunganishwa na hii aina mpya ya hali, usanidi wa OTRS pia unatakiwa kunadilishwa kuhakikisha hali mpya inatumika. Badilisha machaguo yafuatayo tu kupitia SysConfig:

Tiketi-> Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya >
WakalaTiketiSimu###HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata ya tiketi mpya za simu.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya >
WakalaTiketiSimu###AinaHali - kufafanua hali zitakazopatikana kwa tiketi mpya za simu.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaBaruapepeMpya >
TiketiBaruapepe###HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata ya tiketi mpya za barua pepe.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaBaruapepeMpya > WakalaTiketiBaruapepe###AinaHali - kufafanua hali zinazofuata zitakazopatikana kwa tiketi mpya za barua pepe.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaSimuZinazotoka > WakalaTiketiSimuZinazotoka###Hali - kufafanua chaguo-msingi la hali inayofuata kwa makala mpya za simu.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaSimuZinazotoka > WakalaTiketiSimuZinazotoka###HaliAina - kufafanua hali zinazofuata zitakazopatikana kwa makala mpya za simu.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaHamisha > WakalaTiketiHamisha###Hali - kufafanua chaguo-msingi la hali inayofuata ya kuhamisha tiketi.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaHamisha > WakalaTiketiHamisha###HaliAina - kufafanua hali zinazofuata zinazopatikana za kuhamisha tiketi.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaDunda> HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata baada ya tiketi kudunda.

Tiketi -> Mandhari ya mbele::Wakala::Tiketi::OnaDunda > HaliAina - kufafanua inayopatikana itakayofuata katika skrini ya kudunda.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaNyingi > HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata katika kitendocha mkupuo.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaNyingi > HaliAina - kufafanua hali zinazofuata zitakazopatikana katika skrini ya vitendo vya mkupuo.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaFunga > HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata baada ya kufunga tiketi.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaFunga > HaliAina - kufafanua hali zinazofuata zitakazopatikana katika skrini ya kufunga.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaTunga > HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata kwenye skrini ya Kutunga (jibu).

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaTunga > HaliAina - kufafanua hali zifuatazo zitakazopatikana kwenye skrini ya Kutunga (jibu).

Tiketi -> Mandhari ya mbele::Wakala::Tiketi::OnaMbele > HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata baada ya kupeleka mbele tiketi.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaMbele > HaliAina - kufafanua hali zinazofuata zitakazopatikana kwenye skrini ya Kupeleka mbele..

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaMbele > HaliChaguo-msingi - kufafanua chaguo-msingi la hali inayofuata ya tiketi katika skrini ya nakala huru.

Tiketi -> Mazingira ya mbele::Wakala::Tiketi::OnaMbele > HaliAina - kufafanua kali zinazofuata zitakazopatikana katika skrini ya nakala huru.

Tiketi-> Kiini::MkuuWaPosta> MkuuwapostaHaliChaguo-msingi - kufafanua hali ya tiketi zilizotengenezwa kutoka kwenye barua pepe.

Tiketi-> Kiini::MkuuWaPosta> MkuuwapostaUfuatiliajiHali - kufafanua hali ya tiketi baada ya ufuatiliaji kupokelewa.

Tiketi-> Kiini::MkuuWaPosta> MkuuwapostaUfuatiliajiHaliUmefungwa - kufafanua hali ya tiketi baada ya ufuatiliaji wa tiketi iliyofungwa kupokelewa.

Tiketi -> Kiini::Tiketi > AinaHaliInayoonekana - kufafanua aina za hali ambazo zinaonyeshwa katika maeneo tofauti ya mfumo, kwa mfano katika Muonekanofoleni.

Tiketi-> Kiini::Tiketi > FunguaHaliAina - kufafanua aina za hali kwa ajili ya tiketi zilizo-funguliwa.

Tiketi-> Kiini::Tiketi> KikumbushoKinachosubiriHaliAina - kufafanua aina ya hali kwa ajili ya tiketi za kumbukumbu.

Tiketi -> Kiini::Tiketi > KusubiriHaliOtomatikiAina - kufafanua aina ya hali kwa ajili ya tiketi Otomatiki Zinazosubiri.

Tiketi -> Kiini::Tiketi> HaliBaadaKusubiri - kufafanua hali tiketi imesetiwa baada ya muda Otomatiki wa Kusubiri wa hali iliyosanidiwa kuisha.

6.2. Ticket Priorities

OTRS inakuja na ngazi tano za chaguo-msingi la vipaumbele ambavyo vinaweza kubadilishwa kupitia kiubgo "Vipaumbele" katika ukurasa wa Msimamizi. Wakati wa kutengeneza orodha iliyogeuzwa kukufaa ya vipaumbele, tafadhali weka akilini kwamba zimepangwa kwa alfabeti katika kisanduku cha kuchagua kipaumbele katika kiolesura cha mtumiaji. Pia, OTRS ina agiza tiketi kwa Vitambulisho vya ndani vya hifadhidata katika MuonekanoWaFoleni.

Note

Kama ilivyo kwa vyombo vingine vya OTRS, vipaumbele haviwezi kufutwa, vinalemazwa tu kwa kuseti chaguo Halali kuwa *batili* au *batili-kwa muda*.

Important

Kama kipaumbele kipya kimeongezwa au kama kilichopo kimebadilishwa, unaweza kutaka kubadilisha baadhi ya thamani katika SysConfig:

- Tiketi:Kiini::Mkuu wa posta::MkuuwapostaKipaumbeleChaguo-msingi - inafafanua kipaumbele chaguo-msingi kwa barua pepe zote zinazoingia.
- Tiketi:Mazingira ya mbele::Wakala:Tiketi::OnaSimuMpya:Kipaumbele - inafafanua chaguo-msingi la kipaumbele kwenye skrini ya Tiketi Mpya Simu ya mawakala.
- Tiketi:Mazingira ya mbele::Wakala:Tiketi::OnaBaruapepeMpya:Kipaumbele - inafafanua chaguo-msingi la kipaumbele katika skrini ya Tiketi Mpya Baruapepe ya mawakala.
- Tiketi:Mandhari ya mbele::Mteja:Tiketi::OnaMpya:KipaumbeleChaguo-msingi - inafafanua chaguo-msingi la kipaumbele katika skrini Mpya ya Tiketi katika mazingira yambele ya Mteja.

6.3. Jukumu la Tiketi & Kuangalia Tiketi

Kutoka OTRS 2.1 na kuendelea, inawezekana kumuweka mtu kama mhusika wa tiketi, zaidi ya mmiliki wake. Zaidi, shughuli zote zilizounganishwa na tiketi zinaweza kuangaliwa na mtu zaidi ya mmiliki wa tiketi. Hizi kazi mbili zinatekelezwa na sifa TiketiMhusika na

TiketiMuangalizi, na kuwezesha ugawaji wa kazi na kufanya kazi ndani ya miundo msonge ya makundi.

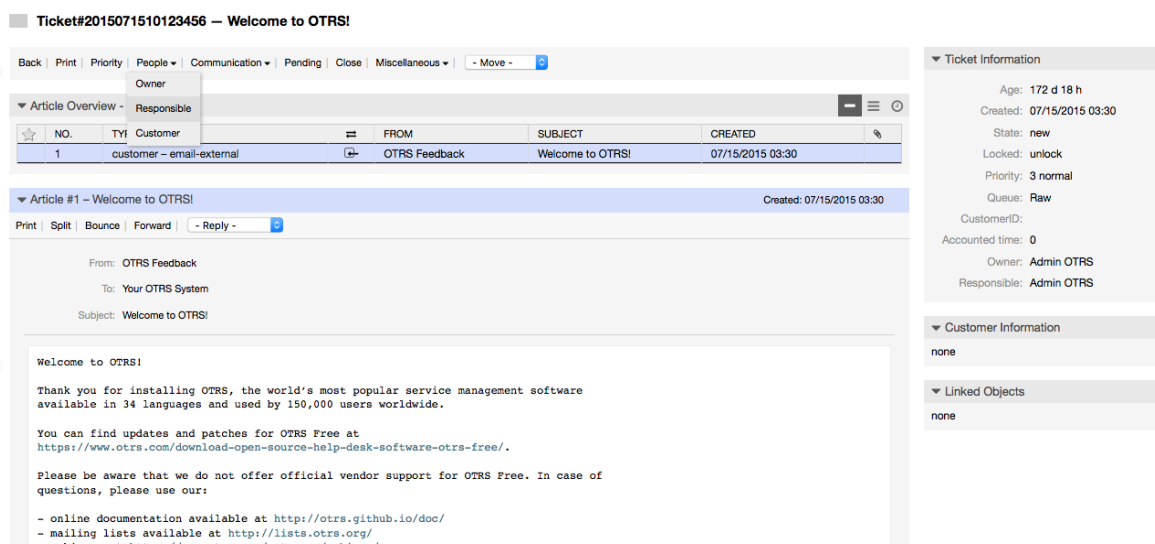
6.3.1. Jukumu la Tiketi

The ticket responsibility feature facilitates the complete processing of a ticket by an agent other than the ticket owner. Thus an agent who has locked a ticket can pass it on to another agent, who is not the ticket owner, in order for the second to respond to a customer request. After the request has been dealt with, the first agent can withdraw the ticket responsibility from the second agent.

Kwa parameta ya usanidi Tiketi::Jukumu, kipengele cha jukumu la tiketi kinaweza kuamili- ishwa. Hii itasababisha viungo vipya 3 kutokea katika menyu ya shughuli za tiketi kwa tiketi iliyokuzwa katika kiolesura cha wakala.

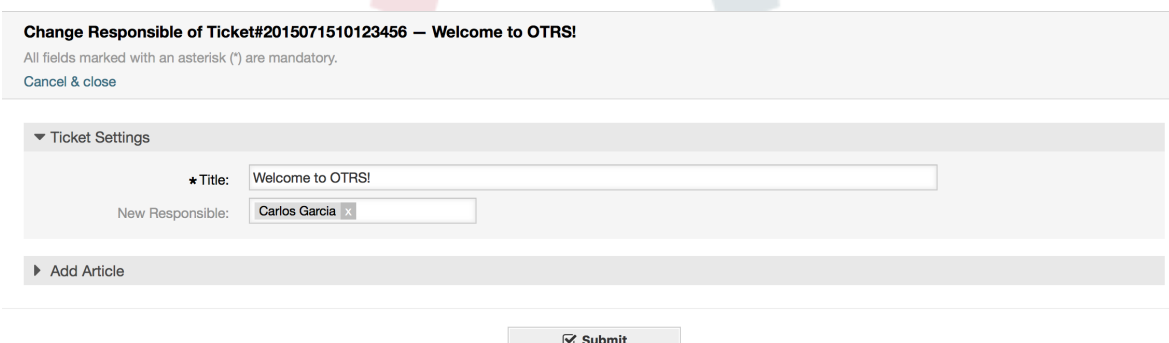
Majukumu ya tiketi yanaweza kugawiwa kwa kuita maudhui ya tiketi na kubofya kwenye kiungo "Jukumu" katika menyu ya shughuli za tiketi kwenye tiketi iliyokuzwa katika kiolesura cha wakala (ona kielelezo chini).

Figure 4.67. Changing the Responsibility of a ticket in its zoomed view



After clicking on "Responsible", a pop-up dialog to change the responsibility of that ticket will open (see figure below). This dialog can also be used to send a message to the new responsible agent.

Figure 4.68. Pop-up dialog to change a ticket's responsibility



Orodha ya tiketi zote ambazo wakala anawajibika, zinaweza kufikiwa kupitia muonekaano wa Majukumu wa kiolesura cha wakala wa OTRS, baada tu ya kipengele cha jukumu la tiketi kuamilishwa.

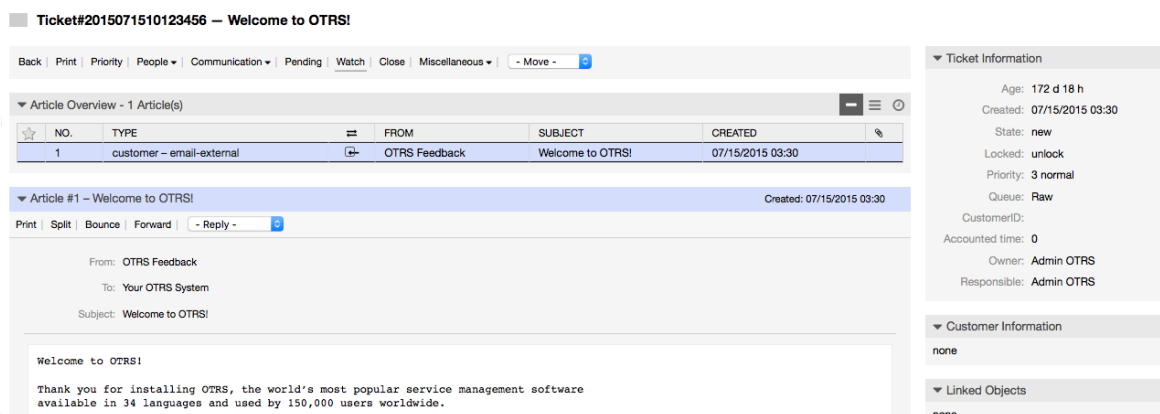
6.3.2. Uangalizi wa tiketi

Kutoka OTRS 2.1 na kuendelea, chagua mawakala kama wasimamizi wanaweza kuangalia baadhi ya tiketi ndani ya mfumo bila kuzichakatisha, kwa kutumia kipengele TiketiMwangualizi.

Kipengele cha MuangaliziTiketi kinaweza kuamilishwa na parameta ya usanidi Tiketi::Muangalizi ambayo inaongeza viungo vipya kwenye mwambaa zana wako wa vitendo. Kwa kutumia Tiketi::MuangaliziKundi, kundi moja au zaidi lenye ruhusa ya kuangalia tiketi linaweza kufafanuliwa.

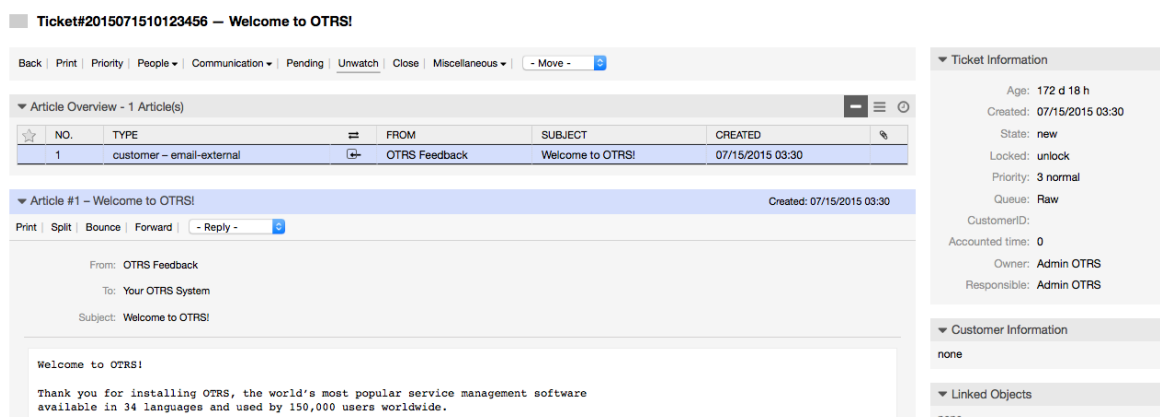
In order to watch a ticket, go to its zoomed view and click on the "Subscribe" link in the ticket activities menu (see figure below).

Figure 4.69. Subscribing to watching a ticket in its zoomed view



If you no longer want to watch a specific ticket, go to its zoomed view and click on the "Unsubscribe" link in the ticket activities menu (see figure below).

Figure 4.70. Unsubscribing from watching a ticket in its zoomed view



The list of all watched tickets can be accessed through the Watched view of the OTRS agent interface (see figure below), as soon as the ticket watcher feature gets activated.

Figure 4.71. Watched tickets view

My Watched Tickets: All

TICKET#	AGE	FROM / SUBJECT	STATE	LOCK	QUEUE	OWNER	CUSTOMERID
2015071510123456	172 d 18 h	OTRS Feedback Welcome to OTRS!	new	unlock	Raw	Admin OTRS	

7. Date and Time Related Functions

7.1. Kuseti masaa, sikuku na majira ya biashara

Baadhi ya kazi katika OTRS, kama upandishaji na kufungua kiotomatiki tiketi, inategemea kwenye usanidi sahihi wa masaa ya biashara, majira ya saa na sikukuu. Unaweza kufafanua hii kupitia Kiolesura cha SysConfig, katika Kiunzi > Kiini::Muda. Unaweza kuweka bayana seti tofauti za masaa ya kazi, sikukuu na majira ya saa kama 'Kalenda' tofauti katika Kiunzi > Kiini::Muda::Kalenda1 kupitia Kiunzi > Kiini::Muda::Kalenda9. Kalenda zinaweza kufafanuliwa na mipangilio ya foleni, au ngazi za SLA. Hii ina maanisha, kwa mfano, unaweza kuweka bayana kalenda yenye masaa ya biashara 5 x 8 kwa SLA yako ya 'Kawaida', lakini ukatengeneza kalenda tofauti ya msaada wa 7 x 24 kwa SLA zako za 'dhahabu'; na pia kuseti kalenda kwa ajili ya foleni yako ya 'Msaada-USA' yenye dirisha tofauti la muda tofauti na lile la foleni yako ya 'Msaada-Japan'. OTRS inaweza kushughulikia mpaka kalenda tofauti 99.

7.1.1. Time zones

OTRS needs to know which time zone should be used to store date and time related data in the database. You can set this in Framework > Core::Time::OTRSTimeZone. The default is UTC and if you set up a new OTRS it is strongly recommended to leave it at this. If you updated from an OTRS older than version 6, you must ensure that OTRSTimeZone is being set to a time zone that matches your previous setup. Otherwise new data will be stored with a different time zone than your existing data. Once you decided on a time zone and data was stored (tickets, etc.), you shouldn't change the time zone anymore because otherwise you would end up with data stored in different time zones.

You can set a default time zone for new agents and customer users via Framework > Core::Time::UserDefaultTimeZone. This time zone will be used for all users that don't have selected a time zone in their preferences.

7.1.2. Masaa ya Biashara

Set up the working hours for your system in SysConfig Framework > Core::Time::TimeWorkingHours, or for your specific calendar in the calendar's configuration. OTRS can handle a granularity of one hour. Checking the marks in the boxes 8, 9, 10 ... 17 corresponds with business hours of 8:00 AM - 6:00 PM.

Katika masaa ya biashara tu ndio tiketi zinaweza kupanda, taarifa za tiketi zilizopandishwa na tiketi zinazosubiri zinatumwa, na tiketi zinafunguliwa.

7.1.3. Fixed Date Holidays

Sikukuu ambazo ziko kwenye tarehe funge kila mwaka, kama Mwaka mpya au tarehe nne ya Julai, zinaweza kubainishwa katika MudaSikukuuSiku, au katika sehemu husika kwa ajili ya kalenda 1-9

Tiketi hazitapandishwa wala kufunguliwa katika siku zilizofafanuliwa kama MudaSikuZaSikukuu.

Note

Kwa chaguo-msingi OTRS inasafirishwa na sikukuu za *German* zimesakinishwa.

7.1.4. Floating Holidays

Sikuku kama Pasaka ambazo hazima tarehe maalumu ya mwaka lakini badala yake zinabadilika kila mwaka, zinaweza kubainishwa kwenye MudaSikuZaSikukuuMaraMoja.

Tiketi hazitapandishwa na hazitafunguliwa katika tarehe zilizofafanuliwa katika MudaSikuZaSikukuuMaraMoja

Note

OTRS haisafirishwi na sikukuu yoyote ya Wakati-Mmoja ikiwa imesakinishwa. Hii ina maanisha unatakiwa kuongeza sikukuu, kama Pasaka au Sikuku ya Shukrani, kwenye mfumo wakati wa kusanidi OTRS.

7.2. Ufunguaji Otomatiki

Tiketi zilizofungwa zinaweza kufunguliwa kiotomatiki na mfumo. Hiki kipengele kinaweza kuwa cha muhimu, kwa mfano, wakala amefunga tiketi ambazo zinatakiwa kuchakatishwa, lakini hawezi kuzifanyia kazi kwa sababu fulani, tuseme yuko nje ya ofisi kwa dharura. Kipengele otomatiki cha kufungua kinafungua tiketi baada ya muda fulani kuhakikisha hakuna tiketi zilizofungwa zitakazosahaulika, hivyo kuruhusu mawakala wengine kuzichakatisha.

The amount of time before a ticket is unlocked can be specified in the queue settings for every queue. The command `bin/otrs.Console.pl Maint::Ticket::Unlock`, which is executed periodically as a cron job, performs the automated unlocking of tickets.

Taarifa kuhusu tiketi zilizofunguliwa zinatamwa nje kwa wale mawakala wenye foleni zilizosetiwa tiketi zilizofunguliwa kwenye 'Foleni zangu', na wame amilisha taarifa kwenye tiketi zilizofunguliwa katika mapendeleo yao binafsi.

Tiketi zitafunguliwa kama masharti yote yafuatayo yamefikiwa:

- Kuna *muda wa mwisho wa kufungua* umefafanuliwa kwenye foleni ambayo tiketi imo.
- Tiketi imesetiwa kuwa *imefungwa*.
- Hali ya tiketi ni *wazi*.

Muda wa kufungua utasetiwa upya kama wakala akiongeza makala mpya ya nje kwenye tiketi. Inaweza kuwa ya aina yoyote kati ya zifuatazo: *barua pepe-nje*, *simu*, *faksi*, *sms*, au *notisi-nje*.

Pia, kama makala ya mwisho katika tiketi imetengenezwa na wakala, na mteja akaongeza nyingine, aidha kwa kupitia majibu ya tovuti au barua pepe, muda wa kufungua utasetiwa upya.

Tukio la mwisho ambalo lita seti upya muda wa kufungua ni pale tiketi imegawiwa kwa wakala mwingine.

8. Customizing the PDF Output

Hiki kifungu kinashughulikia machaguo yanayoweza kusanidiwa kwa ajili ya matokeo ya PDF kwenye OTRS.

If you use the Print action from anywhere within the OTRS interface, it will generate a formatted PDF file.

You can adjust the look of the files generated by OTRS by creating your own logo and adding it to PDF::LogoFile. You can use PDF::PageSize to define the standard page size of the generated PDF file (DIN-A4 or Letter), and also PDF::MaxPage to specify the maximum number of pages for a PDF file, which is useful if a user generates a huge output file by mistake.

9. Takwimu

The OTRS statistics module holds features to track operational statistics and generates custom reports associated with OTRS usage. The OTRS system uses the term "statistic" generically to refer to a single report presenting various indicators.

Note

For **OTRS Business Solution™** customers, there is also a reports generator available. Here "report" refers to a collection of several statistics in one PDF document that can be easily configured and automatically generated and distributed. Please find more details in the **OTRS Business Solution™** manual.

Proper configuration of the OTRS statistics module is associated with a multitude of requirements and considerations. These include the various OTRS modules to be evaluated, user permission settings, indicators to be calculated and their complexity levels, ease of configuration of the statistics module, speed and efficiency of calculations, and support of a rich set of output variants.

Statistical elements, i.e. files which supplement the functionality of the statistics module for specific requirements, can be integrated for calculating complex statistics.

9.1. Statistics Configuration and Usage

When signed on as an agent, the statistics module can be opened by selecting "Reports" and then "Statistics" in the main menu.

9.1.1. Mapitio

Selecting the "Statistics" link in the navigation bar, and then the submenu link "Overview", calls up the Overview screen. The Overview screen presents a list of all pre-configured reports the agent can use (see figure below).

Figure 4.72. Overview of the standard statistics.

Statistics » Overview

STAT#	TITLE	OBJECT	EXPORT	DELETE	RUN
10001	List of open tickets, sorted by time left until escalation deadline expires	Ticketlist	📄	🗑️	🔄 Run now
10002	List of open tickets, sorted by time left until response deadline expires	Ticketlist	📄	🗑️	🔄 Run now
10003	List of open tickets, sorted by time left until solution deadline expires	Ticketlist	📄	🗑️	🔄 Run now
10004	List of the most time-consuming tickets	Ticketlist	📄	🗑️	🔄 Run now
10005	List of tickets closed last month	Ticketlist	📄	🗑️	🔄 Run now
10006	List of tickets closed, sorted by response time.	Ticketlist	📄	🗑️	🔄 Run now
10007	List of tickets closed, sorted by solution time	Ticketlist	📄	🗑️	🔄 Run now
10008	List of tickets created last month	Ticketlist	📄	🗑️	🔄 Run now
10009	New Tickets	TicketAccumulation	📄	🗑️	🔄 Run now
10010	Changes of status in a monthly overview	StateAction	📄	🗑️	🔄 Run now
10011	Overview about all tickets in the system	TicketAccumulation	📄	🗑️	🔄 Run now

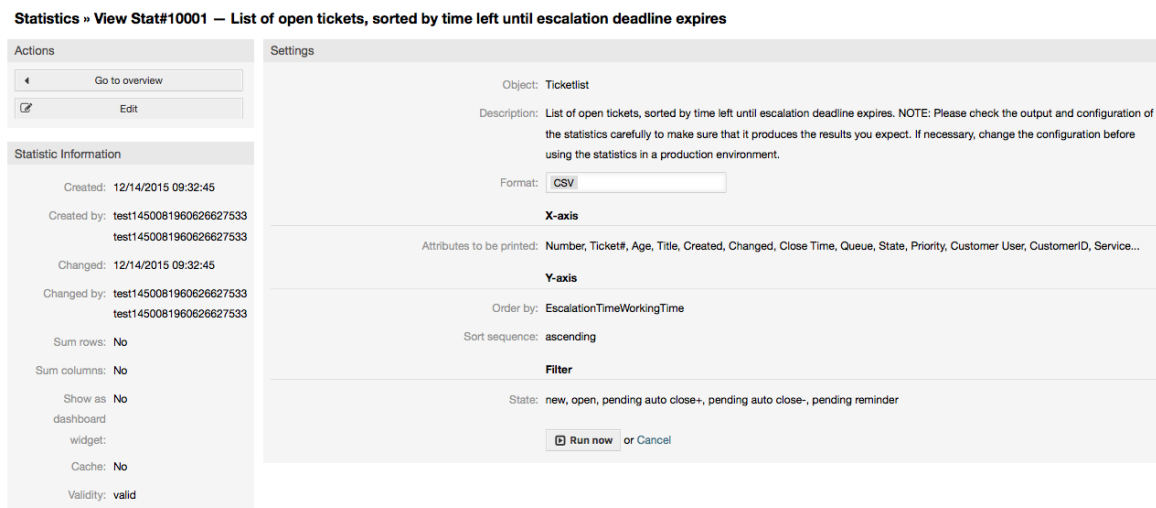
When the statistics module is installed, it comes preloaded with a few sample statistics imported into the system. These are shown as a list on the overview page. If the overview

list extends to more than a single page, the agent can browse through the different pages. The list of statistics can be sorted as desired, by clicking the desired column header in the list. To generate a particular statistic, click on the statistic's "Run now" link.

9.1.2. Generation

The view user interface provides the stat's configuration settings (see figure below).

Figure 4.73. Viewing a specific statistic.



Configuration settings for a particular statistic can be set within the range of options in the View screen. Either the statistic creator or any others with the appropriate permissions can make the settings.

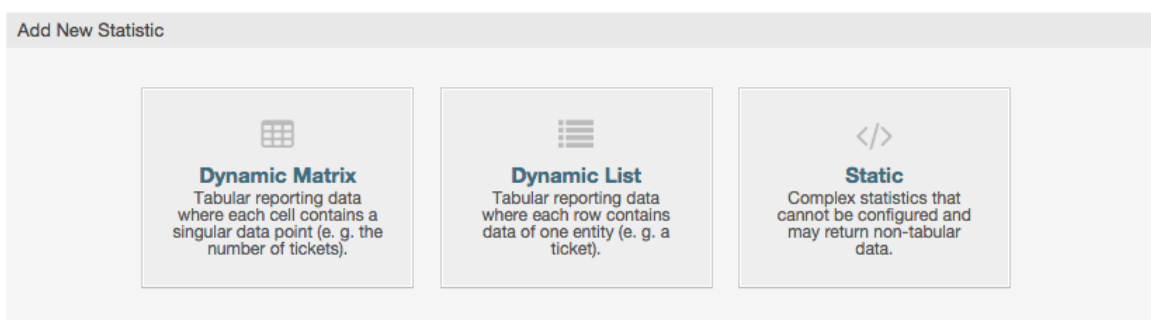
Pressing the "Start" button (at the bottom of the screen) is the last step to generate the statistic.

9.1.3. Usanidi

Agents with write rights can edit an existing report configuration by calling up the edit user interface of the statistics module. Alternately, they may create a new report.

There are four possible steps in the configuration of a statistic: the general specification data, configuring the x-axis, y-axis and possible data filters for the reported data (or restrictions). Let's create a new statistic as an example by clicking the "Add" button in the overview screen. Our goal will be to get an overview of how many tickets with very high priority are in every queue (x-axis) and state (y-axis).

Figure 4.74. Adding a new statistic, first step.



At the beginning we have to select the type of statistic we want to add. Three types are available:

Dynamic Matrix Statistics

This type of statistics will generate a matrix of computed values (e.g. new tickets per day of month and queue). All value cells in the matrix have the same type (number, average time, etc.). Values are computed from entities in the system (e.g. tickets). Some matrix statistics support a summation column and/or row (only useful for certain data).

Dynamic List Statistics

This kind of statistic will generate a table where every line (not cell) represents an entity in the system (e. g. a ticket). The columns in this row are usually configurable (x-axis, see below) and contain the data of this object (e. g. ticket attributes). All value cells in one column have the same type.

Static Statistics

This kind of statistic is not very much configurable and usually used for very special and/or complex computations.

So let's select "Dynamic Matrix" for our example. Then the "General Specifications" configuration will appear below the statistic type selection.

Figure 4.75. Adding a new statistic, second step.

General Specification

★ Title:

★ Description:

★ Object type:

★ Permissions:
You can select one or more groups to define access for different agents.

★ Result formats:

Create summation row:
Generate an additional row containing sums for all data columns.

Create summation column:
Generate an additional column containing sums for all data rows.

Cache results:
Stores statistics result data in a cache to be used in subsequent views with the same configuration.

Validity:
If set to invalid end users can not generate the stat.

Create Statistic

or

After providing a title and description for the new statistic, we have to select the statistics backend that we want to use. This is the actual backend module which is responsible to collect and analyze the data for our statistic. In our case we'll select "TicketAccumulation".

By configuring permission groups, we can facilitate a restriction of the groups (and therefore, agents) who can later view and generate the pre-configured statistics. Thus the var-

ious statistics can be allocated to the different departments and work groups who need them. It is possible to allocate one statistic to various groups.

Example 4.20. Default statistics permission group

The "stats" group was selected. The report is viewable for all users having at least ro rights for the "stats" group. This access is available by default.

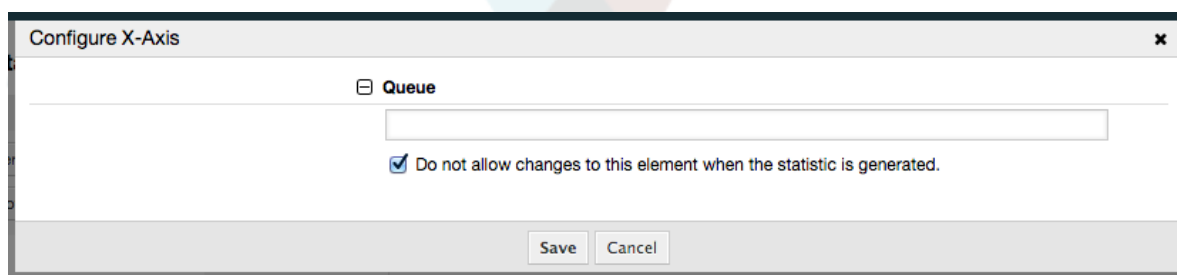
Example 4.21. Customized statistics permission group

A group named "sales" was selected. All users with ro rights for the "sales" group can see the stat in the view mode and generate it. However, the report will not be available for viewing by other users.

Additionally, possible output formats can be selected. Here we can just keep all output formats and choose the one to use when actually generating the statistic. Let's save the statistic now.

The next screen will indicate the next step with a highlighted button: we should configure the x-axis. By clicking the button, a dialog will appear where we can select the element to be used for the x-axis. In our case that will be the queue:

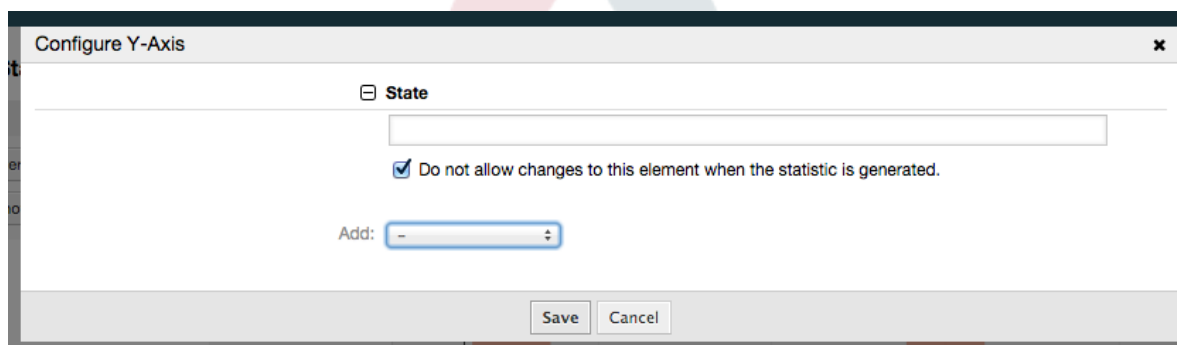
Figure 4.76. Configuring the x-axis of a statistic.



We can optionally limit the queues to be shown by selecting some in the queue field. With the checkbox we can control if the agent who generates the statistic can make changes to the queue selection. We'll keep the defaults and press "Save".

Now we can configure the y-axis in the same way: select the state field.

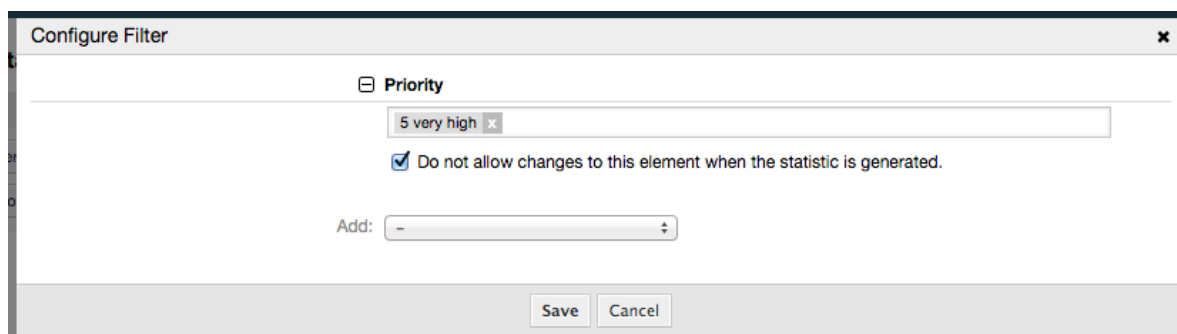
Figure 4.77. Configuring the y-axis of a statistic.



Here it is possible to select one element or two. In the first case, every value of the element will be one element on the y-axis. If two elements are selected, their permutations will be the elements on the value series. For example you could select "state" and "priority", and the resulting elements will be "new - 1 very low", "new - 2 low", ... "open - 1 very low" and so on. Let's just use the state and press "Save".

Now in the last step we could add data filters to only report tickets belonging to a certain customer, with certain priorities and so on. We'll add a filter for very high priority tickets:

Figure 4.78. Configuring the data filter of a statistic.



Now press "Save" again. The configuration is finished.

You may already have noted that in the configuration dialog there is a preview area where we can check the effect of our configuration settings.

Figure 4.79. Configuring the data filter of a statistic.



Note

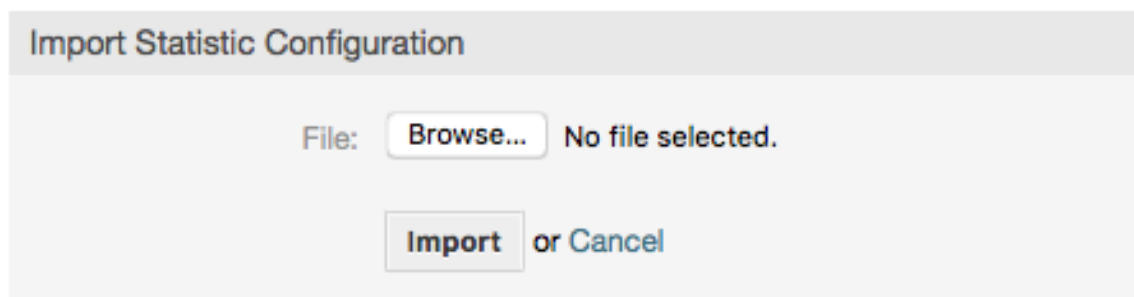
Please note that the preview uses random data and does not consider data restrictions.

The statistic is configured. By pressing the "Run now" button we can go to the View screen where the desired output format can be selected and the statistic can be generated in the different formats.

9.1.4. Agiza

The Import user interface can be accessed by pressing the "Import" button on the Overview screen. "rw" permissions for the statistics module are required.

Figure 4.80. Statistics import



Facilitates the import of reports, and when combined with the export function of the module, is a very handy functionality. Stats can be created and tested conveniently on test systems, then imported into the production system.

9.2. Statistics System Administration

Hii sehemu inatoa maelezo kuhusu kazi na majukumu ya Msimamizi wa OTRS anayehusika na moduli ya takwimu.

9.2.1. Mipangilio ya ruhusa, Makundi na Foleni

The default configuration of the module registration gives all agents with "stats" group permissions access to the statistics module.

Ufikivu kuendana na mipangilio ya ruhusa:

- *rw*. Allows configuring statistics.
- *ro*. Permits generating pre-configured statistics.

Msimamizi wa OTRS anaamua kama mawakala wenye haki za kuzalisha ripoti zilizosani-diwa kabla wanapewa haki za kusoma tu kwenye kundi la "takwimu", au kama makundi yao husika yanaongezwa katika moduli ya usajili kwenye SysConfig.

9.2.2. SysConfig Settings

The SysConfig groups Framework:Core::Stats and Framework:Frontend::Agent::Stats contain all configuration parameters for the basic set-up of the statistics module. Moreover, the configuration parameter `$Self->{'Frontend::Module'}->{'AgentStats'}` controls the arrangement and registration of the modules and icons within the statistics module.

9.2.3. Generating Statistics on the Command Line

Statistics can be generated on the command line with the command `bin/otrs.Console.pl Maint::Stats::Generate`. As an example, see the command line call in the following script.

```
shell> bin/otrs.Console.pl Maint::Stats::Generate --number 10004 --target-directory /tmp
Generating statistic number 10004...
Writing file /tmp/List_of_the_most_time-consuming_tickets_Created_2015-09-08_14-51.csv.
Done.
```

A report from the statistic configuration "Stat#10004" is generated and saved as a CSV file in the /tmp directory.

The generated report can also be sent as an e-mail. More information can be called up with the command in the script below.

```
shell> bin/otrs.Console.pl Maint::Stats::Generate --help
```

It usually does not make sense to generate reports manually via the command line, as the statistics module has a convenient graphical user interface. However, generating reports manually does make sense when combined with a cron job.

Imagine the following scenario: On the first day of every month, the heads of department want to receive a report for the past month. By combining a cron job and command line call the reports can be sent to them automatically by e-mail.

10. Sehemu zinazobadilika

10.1. Utangulizi

Sehemu inayobadilika ni sehemu ya aina maalumu katika OTRS, iliyotengenezwa kupanua taarifa iliyohifadhiwa katika makala au tiketi. Hizi makala si funge kwenye mfumo na zinaweza kutokea kwenye skrini maalumu tu, zinaweza kuwa za lazima au si za lazima, na uwasilishwaji wake kwenye skrini unategemeana na aina ya sehemu iliyofafanuliwa wakati wa utengenezaji wake kulingana na data inayoshikiliwa na sehemu. Kwa mfano, kuna sehemu za kushikilia nakala, tarehe, chaguo la vitu, na kadh.

Dynamic fields are the evolution of TicketFreeText, TicketFreeKey, TicketFreeTime, ArticleFreeText and ArticleFreeKey fields that were commonly used in OTRS 3.0 and before. The limitation of these "Free Fields" was that they can be defined up to 16 (text or dropdown) fields and 6 time fields for a ticket and 3 (text or dropdown) fields for each article only, not more.

Sasa kwa kutumia sehemu zinazobadilika kikomo katika nambari ya sehemu kwa tiketi au makala kimeondolewa, unaweza kutengeneza sehemu nyingi zinazobadilika unazotaka aidha kwa tiketi au makala. Na zaidi ya hapo, kiunzi nyuma ya sehemu zinazobadilika kinaandaliwa kushughulikia sehemu zilizogeuzwa kukufaa kwa ajili ya vitu vingine kuachana na tiketi na makala tu.

Kiunzi hiki ambacho kinashughulikia sehemu zinazobadilika kimetengenezwa kwa kutumia mbinu ya moduli, ambapo kila aina ya sehemu inayobadilika inaweza kuonekana kama moduli ya programu-jalizi kwa ajili ya kiunzi. Hii inamaanisha aina mbali mbali ya sehemu zinazobadilika zinaweza kupanuliwa kirahisi kwa kutumia moduli za umma za OTRS, vifaa vya nyongeza vya vipengele vya OTRS, maendeleo yaliyogeuzwa kukufaa ya OTRS, na maendeleo mengine yaliyogeuzwa kukufaa.

Aina zifuatazo za sehemu zinazobadilika zimejumuishwa kwenye toleo hili:

- Nakala (nakala ya mstari mmoja)
- Eneo la nakala (nakala za mistari mingi)
- Kisanduku tiki
- Kunjuzi (chaguo moja, thamani nyingi)
- Uchaguzi anuwai (uchaguzi nyingi, thamani nyingi)
- Tarehe
- Tarehe / Muda

10.2. Usanidi

Kwa kawaida, upakuaji mpya wa OTRS haujumuishi sehemu zozote zinazobadilika. Ukita-ka kutumia sehemu hizo katika tiketi au makala inakubidi uzitengeneze.

Usanidi wa sehemu zinazobadilika umegawanyika katika nyanja mbili, kuongeza sehemu mpya inayobadilika au kusimamia iliyopo unahitaji kwenda paneli ya "Msimamizi" kwenye kiungo "Sehemu Zinazobadilika". Kuonyesha, kuonyesha kwa ulazima au kuficha sehemu inayobadilika katika skrini moja unahitaji kubadilisha mipangilio ya OTRS katika skrini ya "SysConfig".

10.2.1. Kuongeza Sehemu Inayobadilika

Click on the "Admin" button located in the navigation bar, then click on the "Dynamic Fields" link inside "Ticket Settings" box located in the lower center of the screen. The dynamic fields overview will display as follows:

Figure 4.81. Skrini ya mapitio ya Sehemu zinazobadilika, wazi

Dynamic Fields Management - Overview

Actions

Ticket

Add new field for object: Ticket

Article

Add new field for object: Article

Hint

To add a new field, select the field type from one of the object's list, the object defines the boundary of the field and it can't be changed after the field creation.

Dynamic Fields List 1-2 of 2

NAME	LABEL	ORDER	TYPE	OBJECT	VALIDITY	DELETE
ProcessManagementProcessID	Process	1	ProcessID	Ticket	valid	
ProcessManagementActivityID	Activity	2	ActivityID	Ticket	valid	

Tambua kwamba hii skrini itabadilika kadiri uongezavyo sehemu zinazobadilika kuorodhesha sehemu zote zinazobadilika. Hii skrini inaweza tayari kuwa na baadhi ya sehemu kama usanikishaji ulirekebisha kutoka toleo la zamani la OTRS.

Vitendo kwenye ufito wa pembeni kushoto kwa skrini vinaelezea uwezekano wa aina mbili: Makala na Tiketi, kila moja ina uchaguzi kunjuzi wa sehemu zinazobadilika.

Note

Usanikishaji wa kifurushi cha OTRS unaweza kuongeza vitu katika ufito wa pembeni.

Utaratibu wa kawaida wa kutengenza sehemu zinazobadilika ni:

- Click on the desired dynamic field object dropdown in the Actions side bar.
- Bofya kwenye aina ya sehemu inayobadilika unayotaka kuongeza kutoka kwenye orodha.
- Jaza usanidi
- Hifadhi

Maongezi ya usanidi wa sehemu zinazobadilika yamegawanywa katika sehemu mbili, upande wa juu ni wa kawaida baina ya sehemu zote na upande wa chini unaweza kuwa tofauti kwa aina moja ya sehemu inayobadilika kwenda nyingine.

Mipangilio ya ujumla ya sehemu zinazobadilika:

- Jina: Lazima, kipekee, herufi na nambari tu zinaruhusiwa,

Hili ni jina la ndani la sehemu, linatumika kwa mfano kuonyesha au kuficha sehemu katika skrini. Mabadiliko yoyote ya jina la sehemu (haishauriwi) inahitaji usasishaji kwa mikono wa mipangilio ya "SysConfig" ambapo sehemu ina rejea.

- Lebo: Lazima

Hili ndio jina la sehemu litakaloonyeshwa kwenye skrini, ina msaada kwa tafsiri.

Note

Tafsiri za lebo inabidi ziongezwe kwa mikono kwenye mafaili ya utafsiri wa lugha.

- Oda ya sehemu: Lazima.

Inafafanua oda tegemezi ambayo sehemu itaonyeshwa kwenye skrini, kwa chaguo-msingi kila sehemu mpya ina sehemu ya mwisho, mabadiliko katika huu mpangilio utaathiri oda ya sehemu nyingine zinazobadilika zilizotengenezwa.

- Uhalali: Lazima.

Sehemu inayobadilika batili haitaonyeshwa katika skrini yoyote, hata kama imesanidiwa kuonyeshwa.

- Aina ya sehemu: Lazima, Soma tu.

Inaonyesha aina ya sehemu iliyochaguliwa.

- Aina ya kitu: Lazima, Soma tu.

Inaonyesha upeo wa sehemu.

Note

Kuonyesha mipangilio ya kila aina maalumu ya sehemu sehemu chache zitaongezwa kwenye mfano wetu. Hizi sehemu mpya zitafanyiwa marejeo kwenye vifungu vya mbele.

For the following examples all the dynamic fields will be created for the Ticket object. If you need to create a dynamic field for Article object, just choose the field from the Article dropdown list.

Table 4.6. Sehemu zifuatazo zitaongezwa kwenye mfumo:

Jina	Lebo	Aina
Sehemu1	Sehemu yangu 1	Nakala
Sehemu2	Sehemu yangu 2	Eneo la nakala
Sehemu3	Sehemu yangu 3	Kisanduku tiki
Sehemu4	Sehemu yangu 4	Kunjuzi
Sehemu5	Sehemu yangu 5	Chaguanyingi
Sehemu6	Sehemu yangu 6	Tarehe
Sehemu7	My Field 7	Tarehe / Muda

10.2.2. Nakala ya Usanidi wa Sehemu Inayobadilika

Sehemu inayobadilika ya Nakala inatumika kuhifadhi tungo ya mstari mmoja.

Nakala ya mpangilio wa sehemu inayobadilika:

- Thamani ya chaguo-msingi: Hiari.

Hii ni thamani ya kuonyeshwa kwa kawaida kwenye shrini za kuhariri (kama Simu Npya ya Tiketi au Tunga Tiketi)

- Onyesha kiungo: Hiari.

Kama imesetiwa, thamani ya sehemu itabadilishwa kuwa kiungo kinachobonyezeka kwa ajili ya skrini za kuonyesha (kama kuza tiketi au mapitio).

Kwa mfano, kama "Onyesha kiungo" imesetiwa kuwa "http://www.otrs.com", kubofya kwenye thamani ya sehemu kitafanya kivinjari chako kufungua ukurasa wa tovuti wa OTRS.

Note

The use of [% Data.NameX | uri %] in the Set link value, where NameX is the name of the field, will add the field value as part of the link reference.

Figure 4.82. Maongezi ya usanidi wa Nakala ya Sehemu inayobadilika.

Dynamic Fields - Ticket: Add Text Field

Actions

Go back to overview

General

★ **Name:** Validity:

Must be unique and only accept alphabetic and numeric characters.

★ **Label:** Field type:

This is the name to be shown on the screens where the field is active.

★ **Field order:** Object type:

This is the order in which this field will be shown on the screens where is active.

Text Field Settings

Default value: This is the default value for this field.

Show link: Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens. Example: http://some.example.com/handle?query={% Data.Field1 | uri %}

Check RegEx: Here you can specify a regular expression to check the value. The regex will be executed with the modifiers xms. Example: ^[0-9]\$

Add RegEx:

or

10.2.3. Usanidi wa Eneo la nakala ya Sehemu Zina-zobadilika

Eneo la nakala ya sehemu zinazobadilika hutumika kuhifadhi tungo za mstari zaidi ya mmoja

Mpangiio wa sehemu zinazobadilika za eneo la nakala

- Idadi ya safu: Hiari, namba kamili.

Inatumika kufafanua urefu wa sehemu kwenye skrini za kuhariri (kama Simu Mpya ya Tiketi au Tunga Tiketi).

- Idadi ya safu: Hiari, namba kamili.

Hii thamani inatumika kufafanua upana wa sehemu kwenye skrini za kuhariri.

- Thamani ya chaguo-msingi: Hiari.

Hii ni thamani itakayo onyeshwa kwa kawaida kwenye skrini za kuhariri (inaweza kuwa nakala ya zaidi ya mstari mmoja).

Figure 4.83. Usanidi wa maongezi ya sehemu zinazobadilika za eneo la nakala

Dynamic Fields - Ticket: Change Textarea Field

Actions

Go back to overview

General

★ **Name:** Field2
Must be unique and only accept alphabetic and numeric characters.

★ **Label:** My field 2
This is the name to be shown on the screens where the field is active.

★ **Field order:** 4
This is the order in which this field will be shown on the screens where is active.

Validity: valid

Field type: Textarea

Object type: Ticket

Textarea Field Settings

Number of rows: 10
Specify the height (in lines) for this field in the edit mode.

Number of cols: 60
Specify the width (in characters) for this field in the edit mode.

Default value: Any
 value

This is the default value for this field.

Check RegEx: Here you can specify a regular expression to check the value. The regex will be executed with the modifiers xms.
Example: ^[0-9]\$

Add RegEx:

Submit or Cancel

10.2.4. Usanidi wa Sehemu Inayobadilika ya Kisanduku tiki

Sehemu inayobadilika ya kisanduku tiki inatumika kuhifadhi thamani ya kweli au uongo, inayowakilishwa na boksi lenye tiki au lisilo na tiki.

Mipangilio ya sehemu inayobadilika ya kisanduku tiki:

- Thama ya Kawaida: Lazima.

Hii ndiyo thamani ya kuonyeshwa kwa chaguo-msingi katika skrini za kuhariri (kama Tiketi Mpya ya Simu au Unda Tiketi), thamani chaguo-msingi la hii sehemu ni uchaguzi uliofungwa ambao unaweza kutikiwa au kutotikiwa.

Figure 4.84. Usanidi wa maongezi wa sehemu inayobadilika ya kisanduku tiki

Dynamic Fields - Ticket: Add Checkbox Field

Actions

Go back to overview

General

★ **Name:** Field3
Must be unique and only accept alphabetic and numeric characters.

★ **Label:** My field 3
This is the name to be shown on the screens where the field is active.

★ **Field order:** 5
This is the order in which this field will be shown on the screens where is active.

Validity: valid

Field type: Checkbox

Object type: Ticket

Checkbox Field Settings

Default value: Unchecked

This is the default value for this field.

Submit or Cancel

10.2.5. Usanidi wa Kikunjuzi cha Sehemu Inayobadilika

Kikunjuzi cha sehemu inayobadilika kinatumika kuhifadhi thamani moja, kutoka kwenye orodha iliyofungwa.

Mipangilio ya sehemu kunjuzi inayobadilika:

- Thamani zinazowezezana: Lazima.

Orodha ya thamani za kuchagua. Kama ikitumika, thamani mpya ni muhimu kubainisha Ufunguo (thamani ya ndani) na Thamani (thamani ya kuonyeshwa).

- Thamani ya chaguo-msingi: Hiari.

Hii ndiyo thamani ya kuonyeshwa kwa chaguo-msingi katika skrini za kuhariri (kama Tiketi Mpya ya Simu au Unda Tiketi), thamani chaguo-msingi la hii sehemu ni uchaguzi uliofungwa kama ulivyofafanuliwa na thamani Ziwezekanazo.

- Ongeza sehemu tupu: Lazima, (Ndio/Hapana).

Kama hili chaguo limeamilishwa thamani ya ziada inafafanuliwa kuonyesha "-" katika orodha ya thamani ziwezekanazo. Hii thamani maalumu ni tupu ndani

- Tafsiri thamani: Lazima, (Ndio/Hapana).

Huu mpangilio unatumika kuweka alama thamani zinazoweza kutafsiriwa za hii sehemu. Thamani zinazoonyeshwa tu ndio zita tafsiriwa, thamani za ndani hazita athiriwa, utafsiri wa thamani inabidi uongezwe kwa mikono kwenye mafaili ya lugha.

- Onyesha kiungo: Hiari.

Kama imeseetiwa, thamani ya sehemu itabadilishwa kuwa kiungo kinachobonyezeka kwa ajili ya skrini za kuonyesha (kama kuza tiketi au mapitio).

Kwa mfano, kama "Onyesha kiungo" imeseetiwa kuwa "<http://www.otrs.com>", kubofya kwenye thamani ya sehemu kitafanya kivinjari chako kufungua ukurasa wa tovuti wa OTRS.

Note

The use of [% Data.NameX | uri %] in the Set link value, where NameX is the name of the field, will add the field value as part of the link reference.

Figure 4.85. Maongezi ya usanidi wa Kikunjuzi cha Sehemu inayobadilika

Dynamic Fields - Ticket: Add Dropdown Field

Actions

Go back to overview

General

★ **Name:** Field4 Validity: valid

Must be unique and only accept alphabetic and numeric characters.

★ **Label:** My field 4 Field type: Dropdown

This is the name to be shown on the screens where the field is active.

★ **Field order:** 6 Object type: Ticket

This is the order in which this field will be shown on the screens where is active.

Dropdown Field Settings

Possible values:

★ Key: 1	★ Value: Option 1	<input type="checkbox"/>
★ Key: 2	★ Value: Option 2	<input type="checkbox"/>
★ Key: 3	★ Value: Option 3	<input type="checkbox"/>

Add value:

Default value:

This is the default value for this field.

Add empty value: No

Activate this option to create an empty selectable value.

Tree View: No

Activate this option to display values as a tree.

Translatable values: No

If you activate this option the values will be translated to the user defined language. Note: You need to add the translations manually into the language translation files.

Show link:

Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens. Example: <https://some.example.com/handle?query={% Data.Field1 | uri %}>

Submit or Cancel

10.2.6. Uteuzi Anuwai wa Usanidi wa Sehemu Inayobadilika

Uteuzi Anuwai wa sehemu inayobadilika unatumika kuhifadhi thamani anwai, kutoka kwenye orodha iliyofungwa.

Mipangilio ya sehemu inayobadilika ya uteuzi anuwai:

- Thamani zinazowezezana: Lazima.

Orodha ya thamani za kuchagua. Wakati wa kuongeza vifaa vya nyongeza kwenye orodha, ni muhimu kubainisha Ufunguo (thamani ya ndani) na Thamani (thamani ya kuonyeshwa).

- Thamani ya chaguo-msingi: Hiari.

Hii ndiyo thamani ya kuonyeshwa kwa chaguo-msingi katika skrini za kuhariri (kama Tiketi Mpya ya Simu au Unda Tiketi), thamani chaguo-msingi la hii sehemu ni uchaguzi uliofungwa kama ulivyofafanuliwa na thamani Ziwezekanazo.

- Ongeza sehemu tupu: Lazima, (Ndio/Hapana).

Kama hili chaguo limeamilishwa thamani ya ziada inafafanuliwa kuonyesha "-" katika orodha ya thamani ziwezekanazo. Hii thamani maalumu ni tupu ndani

- Tafsiri thamani: Lazima, (Ndio/Hapana).

Huu mpangilio unatumika kuweka alama thamani zinazoweza kutafsiriwa za hii sehemu. Thamani zinazoonyeshwa tu ndio zita tafsiriwa, thamani za ndani hazita athiriwa, utafsiri wa thamani inabidi uongezwe kwa mikono kwenye mafaili ya lugha.

Figure 4.86. Maongezi ya usanidi wa Uteuzi Anuwai wa Sehemu inayobadilika

Dynamic Fields - Ticket: Add Multiselect Field

Actions

Go back to overview

General

★ **Name:** Field5 Validity: valid

Must be unique and only accept alphabetic and numeric characters.

Field type: Multiselect

★ **Label:** My field 5 Object type: Ticket

This is the name to be shown on the screens where the field is active.

★ **Field order:** 7

This is the order in which this field will be shown on the screens where is active.

Multiselect Field Settings

Possible values:

★ Key: A	★ Value: Option A	<input type="checkbox"/>
★ Key: B	★ Value: Option B	<input type="checkbox"/>
★ Key: C	★ Value: Option C	<input type="checkbox"/>

Add value:

Default value:

This is the default value for this field.

Add empty value:

Activate this option to create an empty selectable value.

Tree View:

Activate this option to display values as a tree.

Translatable values:

If you activate this option the values will be translated to the user defined language.
Note: You need to add the translations manually into the language translation files.

Submit or Cancel

10.2.7. Usanidi wa Sehemu Inayobadilika ya Tarehe

Sehemu inayobadilika ya Tarehe inatumika kuhifadhi thamani ya tarehe (Siku, Mwezi na Mwaka).

Mipangilio ya sehemu inayobadilika ya tarehe:

- Chaguo-msingi la utofauti wa tarehe: Hiari, Namba kamili.

Idadi ya sekunde (hasi au chanya) kati ya tarehe ya sasa na tarehe iliyochaguliwa kuonyeshwa kwa chaguo-msingi katika skrini za kuhariri (kama Tiketi Mpya Simu au Unda Tiketi).

- Define years period: Mandatory, (Yes / No).

Used to set a defined number of years in the past and the future based on the current date of the year select for this field. If set to Yes the following options are available:

- Miaka ya nyuma: Hiari, Namba kamili chanya.

Fafanua idadi ya miaka ya nyuma kutoka siku ya sasa kuonyesha chaguo la mwaka kwa hii sehemu inayobadilika katika skrini za kuhariri.

- Miaka ya mbeleni: Hiari, Namba kamili chanya.

Fafanua idadi ya miaka ya mbeleni kutoka siku ya sasa kuonyesha katika chaguo la mwaka kwa hii sehemu inayobadilika katika skrini za kuhariri.

- Onyesha kiungo: Hiari.

Kama imeseetiwa, thamani ya sehemu itabadilishwa kuwa kiungo kinachobonyezeka kwa ajili ya skrini za kuonyesha (kama kuza tiketi au mapitio).

For example, if "Show link" is set to "http://www.otrs.com", clicking on the filed value will make your browser to open the OTRS web page.

Note

The use of [% Data.NameX | uri %] in the Set link value, where NameX is the name of the field will add the field value as part of the link reference.

Figure 4.87. Maongezi ya usanidi wa Tarehe ya Sehemu inayobadilika

Dynamic Fields - Ticket: Add Date Field

Actions

← Go back to overview

General

★ Name: Validity:
Must be unique and only accept alphabetic and numeric characters.

★ Label: Field type:
This is the name to be shown on the screens where the field is active.

★ Field order: Object type:
This is the order in which this field will be shown on the screens where is active.

Date Field Settings

Default date difference:
The difference from NOW (in seconds) to calculate the field default value (e.g. 3600 or -60).

Define years period:
Activate this feature to define a fixed range of years (in the future and in the past) to be displayed on the year part of the field.

Show link:
Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens.
 Example: http://some.example.com/handle?query={% Data.Field1 | uri %}

Restrict entering of dates:
Here you can restrict the entering of dates of tickets.

or

10.2.8. Usanidi wa Tarehe / Muda wa Sehemu Inayobadilika

Sehemu inayobadilika ya Tarehe / Muda inatumika kuhifadhi thamani ya tarehe muda (Dakika, Masaa, Siku, Mwezi na Mwaka).

Mipangilio ya sehemu inayobadilika ya tarehe / muda:

- Chaguo-msingi la utofauti wa tarehe: Hiari, Namba kamili.

Idadi ya sekunde (hasi au chanya) kati ya tarehe ya sasa na tarehe iliyochaguliwa kuonyeshwa kwa chaguo-msingi katika skrini za kuhariri (kama Tiketi Mpya Simu au Unda Tiketi).

- Define years period: Mandatory, (Yes / No).

Used to set a defined number of years in the past and the future based on the current date of the year select for this field. If set to Yes the following options are available:

- Miaka ya nyuma: Hiari, Namba kamili chanya.

Fafanua idadi ya miaka ya nyuma kutoka siku ya sasa kuonyesha chaguo la mwaka kwa hii sehemu inayobadilika katika skrini za kuhariri.

- Miaka ya mbeleni: Hiari, Namba kamili chanya.

Fafanua idadi ya miaka ya mbeleni kutoka siku ya sasa kuonyesha katika chaguo la mwaka kwa hii sehemu inayobadilika katika skrini za kuhariri.

- Onyesha kiungo: Hiari.

Kama imeseetiwa, thamani ya sehemu itabadilishwa kuwa kiungo kinachobonyezeka kwa ajili ya skrini za kuonyesha (kama kuza tiketi au mapitio).

For example, if "Show link" is set to "http://www.otrs.com", clicking on the filed value will make your browser to open the OTRS web page.

Note

The use of [% Data.NameX | uri %] in the Set link value, where NameX is the name of the field will add the field value as part of the link reference.

Figure 4.88. Maongezi ya usanidi wa Tarehe / Muda wa Sehemu inayobadilika

Dynamic Fields - Ticket: Add Date / Time Field

Actions

Go back to overview

General

★ Name: Validity:
Must be unique and only accept alphabetic and numeric characters.

Field type:

★ Label:
This is the name to be shown on the screens where the field is active.

Object type:

★ Field order:
This is the order in which this field will be shown on the screens where is active.

Date / Time Field Settings

Default date difference:
The difference from NOW (in seconds) to calculate the field default value (e.g. 3600 or -60).

Define years period:
Activate this feature to define a fixed range of years (in the future and in the past) to be displayed on the year part of the field.

Show link:
Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens.
 Example: http://some.example.com/handle?query={% Data.Field1 | uri %}

Restrict entering of dates:
Here you can restrict the entering of dates of tickets.

or

10.2.9. Kuhariri sehemu inayobadilika

Skrini ya mapitio ya sehemu inayobadilika iliyojazwa (na mifano iliyopita) inatakiwa ionekane kama:

Figure 4.89. Skrini ya mapitio ya sehemu zinazobadilika iliyojazwa na data za sampuli

Dynamic Fields Management - Overview

Actions

Ticket

Add new field for object: Ticket

Article

Add new field for object: Article

Hint

To add a new field, select the field type from one of the object's list, the object defines the boundary of the field and it can't be changed after the field creation.

Dynamic Fields List 1-9 of 9

NAME	LABEL	ORDER	TYPE	OBJECT	VALIDITY	DELETE
ProcessManagementProcessID	Process	1	ProcessID	Ticket	valid	
ProcessManagementActivityID	Activity	2	ActivityID	Ticket	valid	
Field1	My field 1	3	Text	Ticket	valid	<input type="button" value="🗑"/>
Field2	My field 2	4	Textarea	Ticket	valid	<input type="button" value="🗑"/>
Field3	My field 3	5	Checkbox	Ticket	valid	<input type="button" value="🗑"/>
Field4	My field 4	6	Dropdown	Ticket	valid	<input type="button" value="🗑"/>
Field5	My field 5	7	Multiselect	Ticket	valid	<input type="button" value="🗑"/>
Field6	My field 6	8	Date	Ticket	valid	<input type="button" value="🗑"/>
Field7	My field 7	9	Date / Time	Ticket	valid	<input type="button" value="🗑"/>

Kubadilisha au kuhariri sehemu inayobadilika lazima uwe na sehemu moja iliyofafanuliwa, chagua sehemu ambayo tayari imejazwa kutoka kwenye skrini ya mapitio ya sehemu zinazobadilika na sahihisha mipangilio.

Note

Sio sehemu zote zinazobadilika zinaweza kubadilishwa, aina ya Sehemu na aina ya Kitu zimefungwa kutoka kwenye machaguo ya sehemu na haziwezi kubadilishwa.

Haishauriwi kubadilisha jina la ndani la sehemu, lakini lebo inaweza kubadilishwa mda wowote. Kama jina la ndani limebadilishwa mipangilio yote ya "SysConfig" ambayo ina marejeo kwenye sehemu hiyo yanahitaji kusasishwa na pia mapendeleo ya mtumiaji (kama imefafanuliwa).

10.2.10. Kuonyesha Sehemu Inayobadilika kwenye Skrini

Kuonyesha sehemu inayobadilika kwenye skrini fulani kuna masharti mawili ya lazima:

1. Sehemu inayobadilika lazima iwe halali.
2. Sehemu inayobadilika lazima isetiwe kuwa 1 au 2 kwenye skrini ya usanidi.

Fuata hatua hizi kuonyesha sehemu inayobadilika katika skrini

- Kuwa na uhakika kwamba sehemu inayobadilika imesetiwa kuwa halali, unaweza kuona uhalali wa sehemu kutoka kwenye skrini ya mapitio ya sehemu inayobadilika. Seti kuwa halali kwa kuhariri sehemu kama ikihitajika.
- Fungua "sysconfig" na chagua "Tiketi" kutoka kwenye orodha kunjuzi katika mwambaa upande wa Vitendo ulio katika upande wa kushoto wa skrini.

Note

Pia unaweza kutafuta "SehemuInayobadilika" katika kisanduku cha kutafuta juu au ufunguo wa "sysconfig" moja kwa moja kama unaujua.

- Tambua mpangilio kundi dogo kwa skrini unayoitafula na kibonyeze. Kwa mfano "Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya".
- Tafuta mpangilio uanoishia na "###SehemuInayobadilika". Kwa mfano "Tiketi::Mazingira ya mbele::WakalaTiketiSimu###SehemuInayobadilika".
- Kama mpangilio uko tupu au hauna jina linalotakiwa la sehemu inayobadilika, bofya kwenye kitufe "+" kuongeza ingizo jipya. Kwa mfano Ufunguo: Sehemu1, Maudhui: 1.

Kama mpangilio tayari una orodha ya jina la sehemu inayobadilika kuwa na uhakika kwamba imesetiwa kuwa "1" ili kuonyesha hiyo sehemu au kuwa "2" kuonyesha kwa ulazima.

- Save the configuration by clicking on the "Update" button at the bottom of the screen and navigate to the screen where you want the field to be displayed.

10.2.10.1. Onyesha Mifano

Ifuatayo ni mifano ya usanidi wa "sysconfig" kuonyesha au kuficha sehemu zinazobadilika katika skrini tofauti.

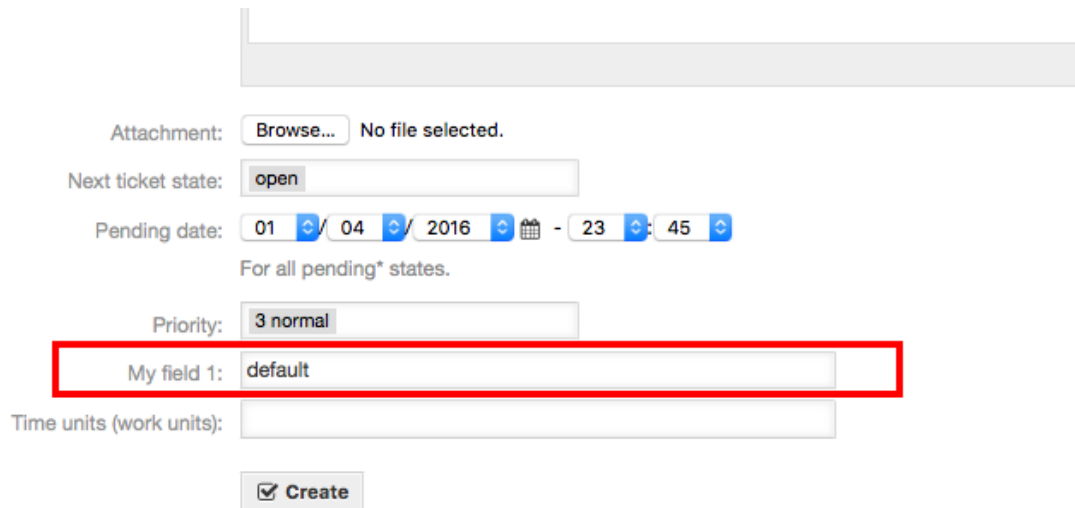
Example 4.22. Amilisha Sehemu1 katika Simu Mpya Tiketi Skrini.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya
- *Mpangilio:* Tiketi::Mazingira ya mbele::WakalaTiketiSimu###SehemuInayobadilika

- *Thamani:*

Ufunguo Sehemu1	Maudhui 1
---------------------------	---------------------

Figure 4.90. Field1 in New Phone Ticket Screen



Attachment: No file selected.

Next ticket state:

Pending date: 01 / 04 / 2016 - 23 : 45

For all pending* states.

Priority: 3 normal

My field 1: default

Time units (work units):

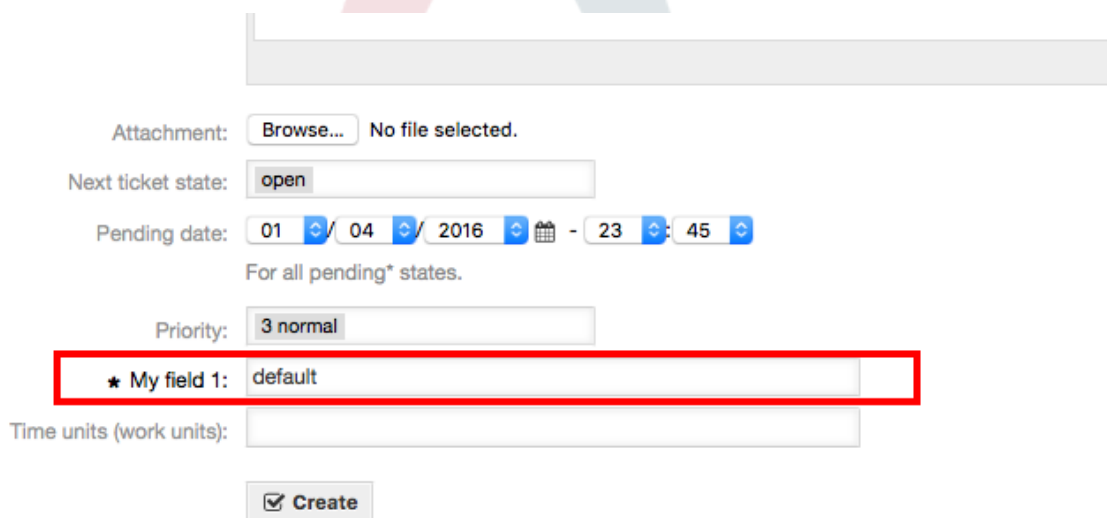
Create

Example 4.23. Amilisha Sehemu1 katika Simu Mpya Tiketi Skrini kwa ulazima.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya
- *Mpangilio:* Tiketi::Mazingira ya mbele::WakalaTiketiSimu###SehemuInayobadilika
- *Thamani:*

Ufunguo Sehemu1	Maudhui 2
---------------------------	---------------------

Figure 4.91. Field1 in New Phone Ticket Screen as mandatory



Attachment: No file selected.

Next ticket state:

Pending date: 01 / 04 / 2016 - 23 : 45

For all pending* states.

Priority: 3 normal

*** My field 1: default**

Time units (work units):

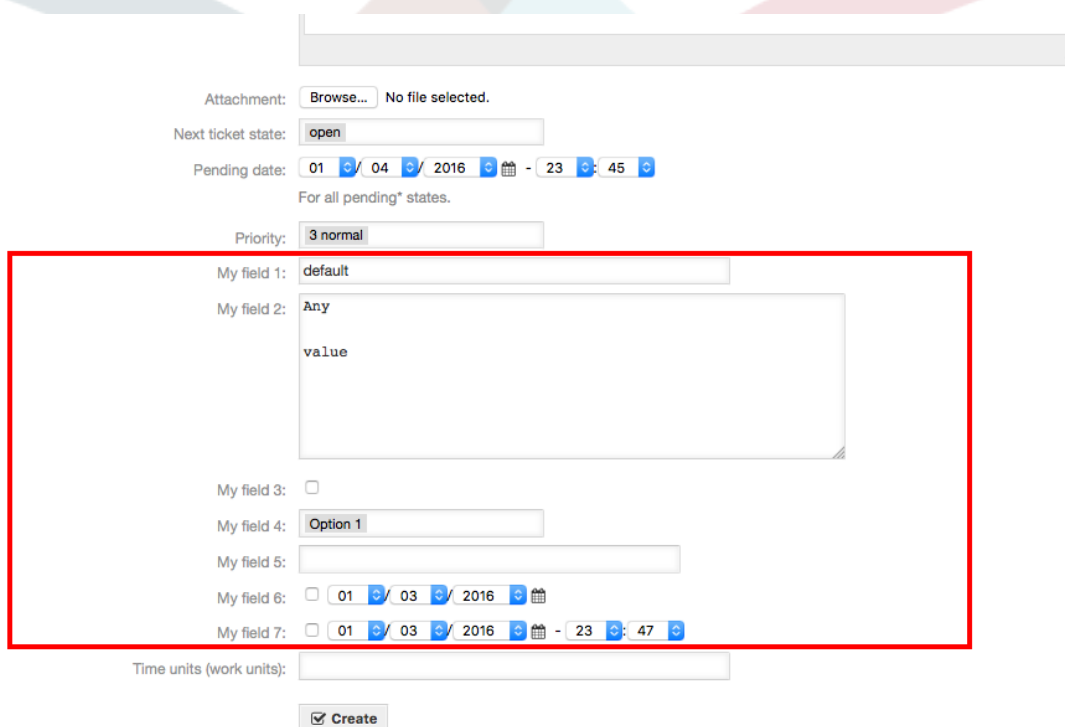
Create

Example 4.24. Amilisha sehemu mbali mbali katika Simu Mpya Tiketi Skrini.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya
- *Mpangilio:* Tiketi::Mazingira ya mbele::WakalaTiketiSimu###Sehemulnayobadilika
- *Thamani:*

Ufunguo	Maudhui
Sehemu1	1
Sehemu2	1
Sehemu3	1
Sehemu4	1
Sehemu5	1
Sehemu6	1
Sehemu7	1

Figure 4.92. Several fields in New Phone Ticket Screen as mandatory



Attachment: No file selected.

Next ticket state:

Pending date: 01 / 04 / 2016 - 23 : 45

For all pending* states.

Priority: 3 normal

My field 1:

My field 2:
value

My field 3:

My field 4:

My field 5:

My field 6: 01 / 03 / 2016

My field 7: 01 / 03 / 2016 - 23 : 47

Time units (work units):

Create

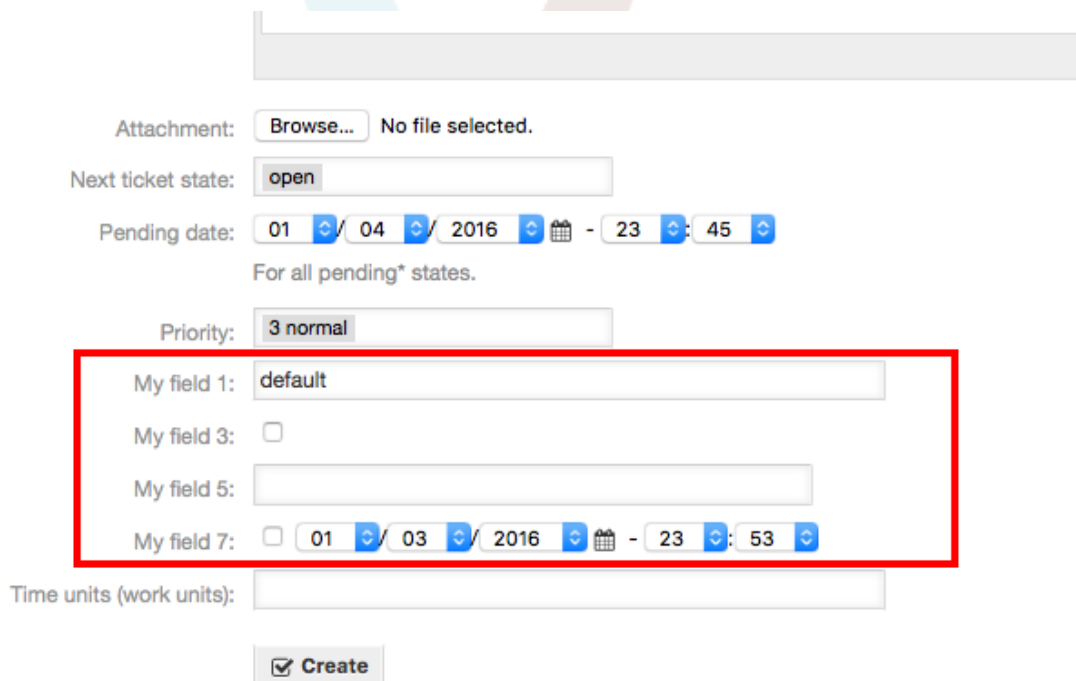
Example 4.25. Lemaza baadhi ya sehemu katika Simu Mpya Tiketi Skrini.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Mazingira ya mbele::Wakala::Tiketi::OnaSimuMpya
- *Mpangilio:* Tiketi::Mazingira ya mbele::WakalaTiketiSimu###Sehemulnayobadilika

- *Thamani:*

Ufunguo	Maudhui
Sehemu1	1
Sehemu2	0
Sehemu3	1
Sehemu4	0
Sehemu5	1
Sehemu6	0
Sehemu7	1

Figure 4.93. Some deactivated fields in New Phone Ticket Screen as mandatory

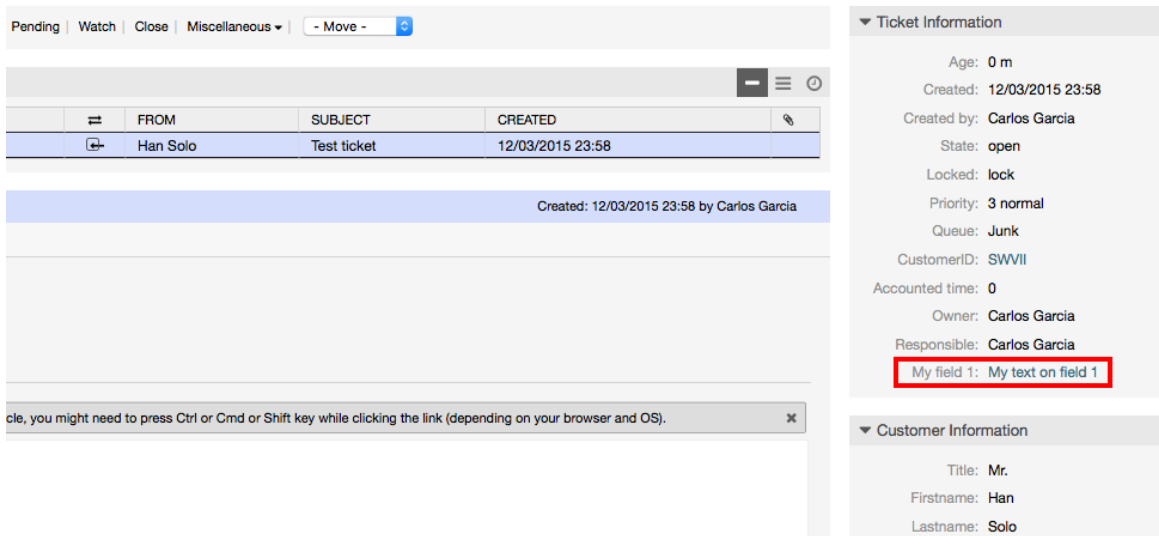


Example 4.26. Amilisha Sehemu1 katika Skrini Kuza Tiketi.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Mazingira ya mbele::Wakala::Tiketi::OnaKuza
- *Mpangilio:* Tiketi::Mazingira ya mbele::WakalaTiketiKuza###SehemuInayobadilika
- *Thamani:*

Ufunguo	Maudhui
Sehemu1	1

Figure 4.94. Field1 in Ticket Zoom Screen



Pending | Watch | Close | Miscellaneous ▾ | - Move - ▾

	FROM	SUBJECT	CREATED
	Han Solo	Test ticket	12/03/2015 23:58

Created: 12/03/2015 23:58 by Carlos Garcia

Ticket Information
 Age: 0 m
 Created: 12/03/2015 23:58
 Created by: Carlos Garcia
 State: open
 Locked: lock
 Priority: 3 normal
 Queue: Junk
 CustomerID: SWVII
 Accounted time: 0
 Owner: Carlos Garcia
 Responsible: Carlos Garcia
My field 1: My text on field 1

Customer Information
 Title: Mr.
 Firstname: Han
 Lastname: Solo

Example 4.27. Amilisha Sehemu1 katika Mapitio ya Skrini Ndogo za Tiketi.

- *Umbo:* Kundi. Tiketi
- *Kudni-dogo:* Mazingira ya mbele::Wakala::TiketiMapitio
- *Mpangilio:* Tiketi::Mazingira ya mbele::MapitioMadogo###SehemuNayobadilika
- *Thamani:*

Ufunguo	Maudhui
Sehemu1	1

Figure 4.95. Field1 in Ticket Overview Small Screen

QueueView: Junk

My Queues (2) Junk (1) Raw (1)

All tickets 2 Available tickets 1

	TICKET#	▲AGE	FROM / SUBJECT	STATE	LOCK	QUEUE	MY FIELD 1	OWNER	CUSTOMERID
<input type="checkbox"/>	2016010354000013	11 m	Han Solo Test ticket	open	lock	Junk	My text on field 1	Carlos Garcia	SWVII

This setting affects: Escalation View, Locked View, Queue View, Responsible View, Status View, Service View and Watch View screens.

10.2.11. Kuweka Thamani Chaguo-msingi kwa kutumia Moduli ya Tukio la Tiketi

Tukio la tiketi (mf. TengenezaTiketi) linaweza kuchochea thamani kusetiwa kwa sehemu fulani, kama sehemu bado haina thamani.

Note

Kwa kutumia njia hii thamani chaguo-msingi, haionekani katika skrini za kuhariri (mf. Simu Mpya Tiketi) kwa kuwa thamani imesetiwa baada ya utengenezaji wa tiketi.

Kuamilisha hiki kipengele ni muhimu kuwezesha mpangilio ufwatao: "Tiketi::TukioModuliTuma###TiketiSehemulnayobadilikaChaguo-msingi".

Example 4.28. Amilisha Sehemu1 katika kitendo cha TengenezaTiketi.

- *Umbo:* Kundi. Tiketi
- *Kundi-dogo:* Kiini::TiketiSehemulnayobadilikaChaguo-msingi
- *Mpangilio:* Tiketi::TiketiSehemulnayobadilikaChaguo-msingi###Elementi1

Note

Huu usanidi unaweza kusetiwa katika moja ya tiketi 16::TiketiSehemulnayobadilikaChaguo-msingi###Mipangilio ya elementi.

Kama zaidi ya sehemu 16 zinahitajika kuaanzishwa faili la XML kililogeuzwa kukufaa lazima liwekwe kwenye mpangilio orodha \$OTRS_HOME/Kernel/Config/files kuendeleza kipengele hiki.

- *Thamani:*

Ufunguo	Maudhui
Kitendo	TengenezaTiketi
Jina	Sehemu1
Thamani	thamani mpya

10.2.12. Seti thamani ya chaguo-msingi kwa Upendeleo wa mtumiaji

Chaguo-msingi la sehemu inayobadilika inaweza kubadilishwa na thamani ziliyofafanuliwa na mtumiaji zilizohifadhiwa kwenye mapendeleo ya mtumiaji.

Kutumia njia hii, thamani ya chaguo-msingi la hiyo sehemu litaonyeshwa kwenye skrini yoyote ambapo sehemu hiyo imeamilishwa (kama sehemu tayari haina thamani nyingine).

Mipangilio ya "sysconfig" ya "MapendeleoMakundi###Sehemulnayobadilika" inayopatikana katika Kundi dogo la "Mazingira ya mbele::Wakala::Mapendeleo". Huu mpangilio ni mfano wa jinsi ya kutengeneza ingizo katika skrini ya Mapendeleo ya Mtumiaji kuseti thamani ya chaguo-msingi la sehemu inayobadilika pweke kwa ajili ya mtumiaji aliyechaguliwa. Kiwango cha juu cha huu mpangilio ni inaruhusu matumizi ya sehemu moja tu inayobadilika. Kama sehemu mbili au zaidi zitatumia hiki kipengele, ni muhimu kutengeneza usanidi wa faili la XML uliogeuzwa kukufaa kuongeza mipangilio zaidi inayofanana na huu.

Note

Remember, if more settings are added in a new XML each setting name needs to be unique in the system and different than "PreferencesGroups###DynamicField". For example: PreferencesGroups###101-DynamicField-Field1, PreferencesGroups###102-DynamicField-Field2, PreferencesGroups###My-Field1, PreferencesGroups###My-Field2, etc.

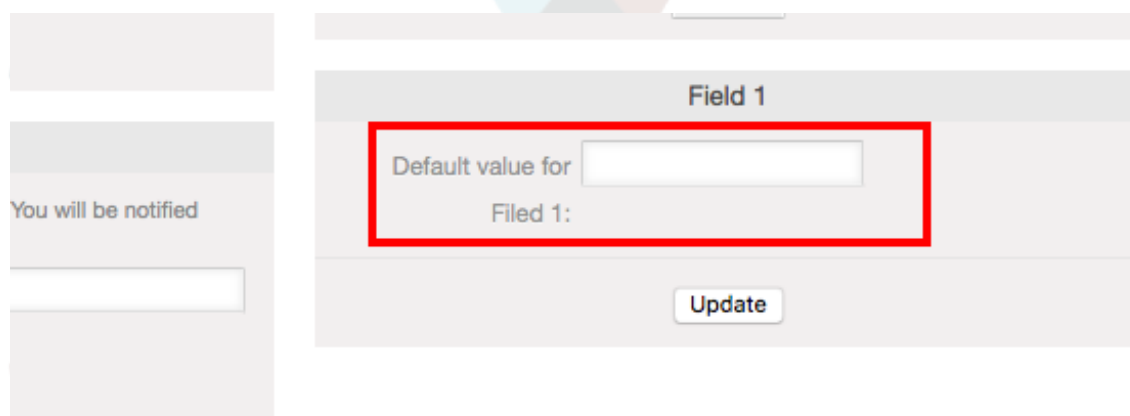
Example 4.29. Amilisha Sehemu1 katika mapendeleo ya Mtumiaji.

- *Umbo:* Kundi. Tiketi

- *Kundi-dogo*: Mazingira ya mbele::Wakala::Mapendeleo
- *Mpangilio*: MakundiMapendeleo###101-Sehemulnayobadilika-Sehemu1
- *Thamani*:

Ufunguo	Maudhui
Kitendo	TengenezaTiketi
Amilifu	1
fungu	Ingizo
Safuwima	Mipangilio mingine
Data:	[% Env("UserDynamicField_Field1") %]
Ufunguo:	Sehemu yangu 1
Lebo:	Chaguo-msingi kwa: Sehemu yangu 1
Moduli:	Kiini::Matokeo::HTML::MapendeleoUjumla
MapendeleoUfunguo:	MtumiajiSehemulnayobadilika_Sehemu1
Kipaumbele:	7000

Figure 4.96. Field1 in User preferences screen



11. Kiolesura cha Ujumla

Kiolesura cha Ujumla cha OTRS kina matabaka mengi ya viunzi ambavyo vinaruhusu OTRS kuwasiliana na mifumo mingine kupitia huduma ya tovuti. Haya mawasiliano yanweza kuwa ya pande mbili.

- *OTRS kama Mtoaji*: OTRS inakuwa kama seva inasikiliza maombi kutoka kwenye Mfumo wa Nje, inachakatisha taarifa, kufanya vitendo vilivyoombwa, na kujibu maombi.
- *OTRS kama Muombaji*: OTRS inakuwa kama mteja inakusanya taarifa, kutuma maombi kwa Mifumo ya Nje, na kusubiri majibu.

11.1. Matabaka ya Kiolesura cha Ujumla

Kiolesura cha Ujumla kimetengenezwa katika moduli ya tabaka, kuwa rahisi kubadilika na kugeuza kukufaa.

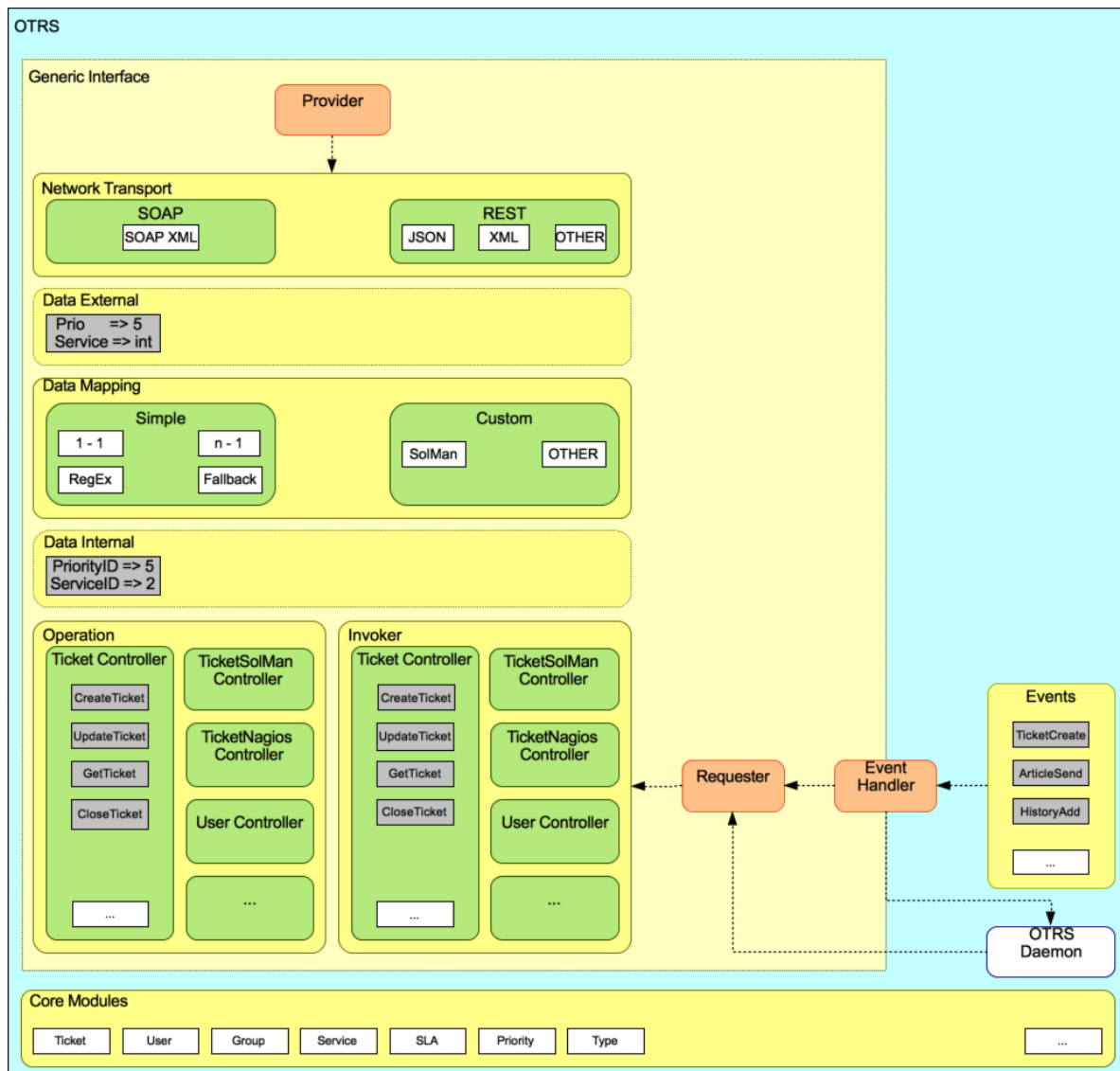
Tabaka ni seti ya mafaili, ambayo inadhhibiti jinsi Kiolesura cha Ujumla kinavyotekeleza sehemu tofauti za huduma ya tovuti. Kwa kutumia usanidi sahihi, mtu anaweza kujenga huduma tofauti za tovuti kwa Mifumo tofauti ya Nje bila kutengeneza moduli mpya.

Note

Kama Mfumo wa Nje hauna usaidizi kwa furushi la moduli za sasa za Kiolesura cha Ujumla, moduli maalumu zinahitaji kutengenezwa kwa ajili ya hiyo huduma maalumu ya tovuti.

Orodha ya moduli zilizotolewa za Kiolesura cha Ujumla zilizosafirishwa na OTRS zita sasishwa na kuongezwa.

Figure 4.97. The graphical interface layers



11.1.1. Usafirishaji wa Mtandao

Hili tabaka lina jukumu la mawasiliano sahihi na Mfumo wa Mbali. Inapokea maombi na kutengeneza majibu ikiwa kama mtoaji, na kutengeneza maombi na kupokea majibu ikiwa kama muombaji.

Mawasiliano ya mtoaji yanashughulikiwa na kishiko kipya cha seva ya wavuti kiitwacho "nph-genericinterface.pl".

Requester communication could be initiated during an event triggered by a Generic Interface module or any other OTRS module. This event is caught by the event handler

and depending on the configuration the event will be processed directly by the requester object or delegated to the Scheduler (a separated daemon designed to process tasks asynchronously).

11.1.2. Kuunganisha data

Tabaka hili lina jukumu la kutafsiri muundo wa data kati ya OTRS na Mfumo wa Mbali (tabaka la data za ndani na data za nje). Kwa kawaida Mifumo ya Mbali ina muundo tofauti wa data kufananisha na OTRS (ikijumuisha thamani tofauti na majina tofauti ya hizo thamani), na hapa umuhimu wa hili tabaka unaonekana kubadilisha taarifa inayopokelewa kuwa kitu ambacho OTRS inaweza kuelewa na kwa upande mwingine kutuma taarifa kwa kila Mfumo wa Mbali kwa kutumia kamusi zao za data.

Example: "Kipaumbele" (OTRS) kinaweza kuitwa "Prio" katika mfumo wa mbali na inaweza kuwa thamani "1 Chini" (OTRS) inatakiwa kuunganishwa na "Taarifa" kwenye mfumo wa mbali.

11.1.3. Mdhibiti

Wadhibiti ni mkusanyiko wa Operesheni zinazofanana au Wachochezi. Kwa mfano, mdhibiti wa Tiketi anaweza kuwa na operesheni za kawaida za tiketi. Wadhibiti wa kawaida wanaweza kutekelezeka, kwa mfano mdhibiti "TiketiNjeKampuni" ambayo inaweza kuwa na kazi sawa na mdhibiti wa kawaida wa Tiketi, lakini ana kiolesura tofauti cha data, au majina ya kazi (ili kukabiliana na majina ya Mfumo wa Mbali) au kanuni tofauti kabisa.

Kazi moja ya Kiolesura cha Ujumla inaweza kuwa kulandanisha taarifa za Mfumo mmoja wa Mbali unaoweza kuongea na Mfumo mwingine wa Mbali unaofanana tu. Katika kesi hii wadhibiti wapya inabidi watengenezwe na Operesheni na Wachochezi inabidi waige tabia za Mfumo wa Mbali ili kiolesura ambacho OTRS itaonyesha kifanane na kiolesura cha Mfumo wa Mbali.

11.1.4. Operesheni (OTRS kama mtoaji)

Operesheni ni kitendo kimoja kinachoweza kufanywa ndani ya OTRS. Operesheni zote zina kiolesura cha kuundia programu za ngamizi kinachofanana, zinapokea data katika parameta moja maalumu, na kurudisha muundo wa data wenye hali ya mafanikio, ujumbe wa kasoro zilizotokea na kurudisha data.

Kwa kawaida operesheni zinatumia data (za ndani) ambazo tayari zimeunganika kuita moduli viini na kufanya vitendo kama: Tengeneza Tiketi, Sasisha Mtumiaji, Batilisha Foleni, Tuma Taarifa, na kadh. Operesheni ina ufikivu kamili kwenye API ya OTRS kufanya kitendo hicho.

11.1.5. Mchochezi (OTRS kama muombaji)

Mchochezi ni kitendo ambacho OTRS inafanya dhidi ya Mfumo wa Mbali. Wachochezi wanatumia moduli za kiini cha OTRS kuchakatisha na kukusanya taarifa zote zinazotakiwa kutengeneza maombi. Taarifa zikiwa tayari inabidi ziunganishwe na umbizo la Mfumo wa Mbali ili zitumwe kwenda kwenye Mfumo wa Mbali, hiyo itachakatisha taarifa itatekeleza kitendo na kutuma majibu, ili aidha kuchakatisha mafanikio au kushughulikia makosa.

11.2. Mtiririko wa Mawasiliano ya Kiolesura cha Ujumla

Kiolesura cha Ujumla kina mtiririko uliofafanuliwa kutekeleza vitendo kama mtoaji na muombaji.

Mtiririko huu unaelezewa hapa chini:

11.2.1. OTRS kama mtoaji

11.2.1.1. Maombi ya Mbali:

1. Maombi ya HTTP

- OTRS inapokea maombi ya HTTP na kuzipitisha kwenye matabaka.
- Moduli ya mtoaji ndiyo ina mamlaka ya kutekeleza na kusimamia vitendo hivi.

2. Usafirishaji wa Mtandao

- Moduli ya usafirishaji wa mtandao inasimbua fiche mzigo wa data na kutofautisha jina la operesheni kutoka kwenye data nyingine.
- Jina la operesheni na data za operesheni zinarudishwa kwa mtumaji.

3. Data za Nje

- Data kama zilivyotumwa kutoka kwenye mfumo wa mbali (hili siyo tabaka linalotegemea moduli).

4. Kuunganisha

- Data inabadilishwa kutoka muundo wa Mfumo wa Nje na kuwa muundo wa mfumo wa ndani wa OTRS kama ilivyobainishwa katika usanidi wa muunganiko wa operesheni hii (Muunganiko wa maombi ya data zinazolingia).
- Data ambazo tayari zimebadilishwa zinarudishwa kwa mtoaji.

5. Data za Ndani

- Data kama zilivyobadilishwa na kuandaliwa kupelekwa kwenye operesheni (Hili siyo tabaka la moduli).

6. Operesheni

- Inapokea na kuthidbitisha data.
- Inafanya udhibiti ufikivu wa mtumiaji.
- Inatekeleza vitendo.

11.2.1.2. Majibu ya OTRS:

1. Operesheni

- Inarudisha matokeo ya data kwa mtoaji.

2. Data za Ndani

- Data kama zilivyorudishwa kutoka kwenye operesheni.

3. Kuunganisha

- Data inabadilishwa kurudi kuwa ya Mfumo wa nje kama ilivyobainishwa katika usanidi wa muunganiko (Muunganiko wa majibu ya data zinazotoka).
- Data ambazo tayari zimebadilishwa zinarudishwa kwa mtoaji.

4. Data za nje

- Data kama ilivyobadilishwa na kuandaliwa kupitishwa kwenye Usafirishaji wa Mtandao kama majibu.

5. Usafirishaji wa Mtandao

- Inapokea data tayari katika umbizo la mfumo wa mbali.
- Inatengeneza majibu halali kwa hii aina ya usafirishaji wa mtandao.

6. Majibu ya HTTP

- Majibu yanatumwa kwa mteja wa huduma ya tovuti.
- Kama kukiwa na kosa, kosa linatumwa kwa mfumo wa mbali (mf. kosa la SOAP, kosa la HTTP, na kadhalika).

11.2.2. OTRS kama Muombaji

11.2.2.1. Maombi ya OTRS:

1. Kishiko Tukio Kichochezi

- Kwa kutegemea usanidi wa huduma za mtandao itaamua kama maombi yatakuwa landanifu au solandanifu.
 - Landanifu
 - Simu ya moja kwa moja inapigwa kwa Muombaji ili kutengeneza ombi jipya na kulipitisha kwenye matabaka.
 - Solandanifu
 - Create a new Generic Interface (Requester) task for the OTRS Daemon (by delegating the request execution to the Scheduler Daemon, the user experience could be highly improved, otherwise all the time needed to prepare the request and the remote execution will be added to the OTRS Events that trigger those requests).
 - In its next cycle the OTRS daemon process reads the new task and creates a call to the Requester that will create a new request and then passes it through the layers.

2. Mchochezi

- Inapokea data kutoka kwenye kitendo.
- Inathibitisha data zilizopokelewa (kama itahitajika).
- Inaita moduli ili kusaidia data (kama itahitajika).
- Rudisha maombi ya muundo wa data au tuma ishara ya kusitisha mawasiliano kwa muombaji, kusitisha mawasiliano kwa nia njema.

3. Data za Ndani

- Data kama ilivyopitishwa kwa mchochezi (Hii siyo tabaka linalotegemea moduli).

4. Kuunganisha

- Data zinabadilishwa kuwa muundo wa Mfumo wa nje kama ilivyobainishwa katika usanidi wa muunganiko. (Muunganiko wa majibu ya data zinazotoka) .

- Data ambayo imekwisha badilishwa inarudishwa kwa muombaji.

5. *Data za Nje*

- Data kama ilivyobadilishwa na kuandaliwa kwa kutuma kwa mfumo wa mbali.

6. Usafirishaji wa Mtandao

- Inapokea jina la operesheni ya mbali na data ambazo tayari zimekwisha badilishwa umbizo kuwa lile la mfumo wa mbali kutoka kwa muombaji.
- Inatengeneneza maombi halali ya usafirishaji wa mtandao.
- Sends the request to the remote system and waits for the response.

11.2.2.2. Majibu ya Mbali:

1. Usafirishaji wa mtandao

- Inapokea majibu na kusimbua fiche mzigo wa data.
- Inarudisha data kwa muombaji.

2. *Data za Nje*

- Data as received from the Remote System.

3. Kuunganisha

- Data inabadilishwa kutoka kwenye muunda wa Mfumo wa Nje kuwa muundo wa ndani wa OTRS kama ilivyobainishwa kwenye usanidi wa muunganiko wa operesheni hii (Muunganiko wa majibu ya data zinazotoka).
- Data ambayo imekwisha badilishwa inarudishwa kwa muombaji.

4. *Data za Ndani*

- Data kama ilivyobadilishwa na tayari kupitishwa kurudi kwa muombaji.

5. Mchochezi

- Inapokea data zilizorudishwa
- Inashughulikia data inayohitajika na mchochezi maalumu (inajumuisha ushughulikiaji wa makosa kama yapo).
- Rudisha matokeo ya Mchochezi na data kwa Muombaji.

6. Event Handler or OTRS Daemon

- Receives the data from the Requester. In the case of the OTRS Daemon this data might contain information to create a task in the future.

11.3. Huduma za Tovuti

Huduma ya Tovuti ni njia ya mawasiliano kati ya mifumo miwili, katika kesi yetu ni OTRS na Mifumo ya Mbali.

The heart of the Web Service is its configuration, where it is defined what actions the web service can perform internally (Operation), what actions the OTRS request can perform

Remote System (Invokers), how data is converted from one system to the other (Mapping), and over which protocol the communication will take place (Transport).

The Generic Interface is the framework that makes it possible to create Web Services for OTRS in a predefined way, using already made building blocks that are independent from each other and interchangeable.

11.4. Kiolesura Michoro cha Huduma za Tovuti

Kiolesura michoro cha huduma za tovuti ni kifaa kinachoruhusu kutengeneza usanidi wa huduma za tovuti changamano katika kiolesura ambacho ni rahisi kutumika. Inaruhusu ku:

- Tengeneza na Kufuta huduma za tovuti.
- Kuagiza na Kuhamisha usanidi (katika umbizo la YAML) kwa huduma za tovuti zilizopo.
- Ona, rudisha na Hamisha usanidi wa zamani wa huduma za tovuti zilizopo katika skrini ya Historia ya Huduma za Tovuti.
- Fuatilia batli zote za mawasiliano kwa kila huduma ya tovuti kwenye skrini ya kueua.

11.4.1. Mapitio ya Huduma za Tovuti

Kiungo cha "Huduma za Tovuti" kwenye skrini kuu ya kiolesura cha Msimaizi (kwenye boksi la Usimamizi wa Mfumo) Inatuongoza kwenye skrini ya mapitio ya huduma za tovuti, ambapo unaweza kusimamia usanidi wa huduma zako za tovuti. Unaweza kuongeza huduma mpya au kubadilisha usanidi kwa zilizopo kutoka kwenye skrini hii.

Kila skrini ya usanidi wa huduma za tovuti katika upande wa juu ina staili ya uabiri njia ya "makombo ya mikate". Huu uabiri unasaidia kujua kwa usahihi tupo upande gani wa usanidi wa huduma za tovuti, na pia inasaidia mtumiaji kurukia upande wowote wa mchakato wa usanidi muda wowote (kitendo hiki hakitahifadhi mabadiliko yoyote).

Note

Kutengeneza huduma mpya ya tovuti bofya kitufe "Ongeza huduma ya tovuti", na utoe taarifa zinazotakiwa.

Figure 4.98. Web services overview

GenericInterface Web Service Management - Overview

You are here: > Web Services

NAME	DESCRIPTION	REMOTE SYSTEM	PROVIDER TRANSPORT	REQUESTER TRANSPORT	VALIDITY
Webservice one	First webservice	Any description	HTTP::SOAP	HTTP::SOAP	valid
Webservice two	-	-	-	-	valid

11.4.2. Ongeza Huduma ya Tovuti

Sehemu inayohitajika katika upande huu ni "Jina" la huduma ya tovuti ambalo linatakiwa kuwa la kipekee kwenye mfumo na halitakiwi kuachwa wazi. Sehemu nyingine ambazo pia ni muhimu kwa usanidi kama "Kizingiti cha kueua" na "uhalali" lakini hizi sehemu tayari zina chaguo-msingi kwa kila orodha.

Thamani chaguo-msingi la "Eua Kizingiti" ni "Eua". Zikiwa zimesanidiwa kwa mpangilio huu batli zote za mawasiliano zinasajiliwa kwenye hifadhidata. Kila Kizingiti cha kueua kinachofwata kina udhibiti zaidi na kinapuuza batli za mawasiliano ya oda ya chini zaidi ya iliyosetiwa kwenye mfumo.

Kizingiti cha viwango vya kueua (kutoka chini kwenda juu)

- Eua
- Maelezo
- Notisi
- Kasoro

Pia inawezekana kufafanua itifaki ya usafirishaji wa mtandao kwa "OTRS kama mtoaji" na "OTRS kama mwombaji".

Bofya kwenye kitufe "Hifadhi" kusajili huduma mpya ya tovuti kwenye hifadhidata au bofya "Katisha" kuchana na operesheni hiyo. Sasa utarudishwa kwenye skrini ya mapitio ya huduma za tovuti.

Kama tayari una faili la usanidi wa huduma za tovuti katika umbizo la YAML unaweza ku bofya kwenye kitufe "Agiza huduma ya tovuti" upande wa kushoto wa skrini. Kwa maelezo zaidi ya uagizaji wa huduma za tovuti tafadhali angalia kifungu kinachofuata "Badiisha Huduma za Tovuti".

Note

Kubadilisha au kuongeza maelezo ya huduma ya tovuti, bofya kwenye jina la huduma ya tovuti kwenye skrini ya mapitio ya huduma za tovuti.

Figure 4.99. Web services add

GenericInterface Web Service Management - Add

You are here: [Web Services](#) > [New Web service](#)

Actions

Go to overview

Import web service

Hint

After you save the configuration you will be redirected again to the edit screen. If you want to return to overview please click the "Go to overview" button.

General

Name: Debug threshold:

Description: Validity:

Remote system:

OTRS as provider

In provider mode, OTRS offers web services which are used by remote systems.

Settings

Network transport:

Operations

Operations are individual system functions which remote systems can request.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
No data found.				

OTRS as requester

In requester mode, OTRS uses web services of remote systems.

Settings

Network transport:

Invokers

Invokers prepare data for a request to a remote web service, and process its response data.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
No data found.				

Save

or

11.4.3. Badilisha Huduma ya Tovuti

Katika skrini hii una seti kamili ya fomula saidizi kushughulikia kila kipande cha huduma ya wavuti. Upande wa kushoto katika safuwima ya kitendo unaweza kupata vitufe ambavyo vitakuruhusu kufanya vitendo vyote vinavyowezekana kwenye huduma ya wavuti:

- Nakili huduma ya tovuti.
- Hamisha huduma ya tovuti
- Agiza huduma ya tovuti
- Historia ya usanidi
- Futa huduma ya tovuti
- Anaye eua.

Note

"Historia ya usanidi" na "Anaye eua" itapelekea kwenye skrini tofauti.

11.4.3.1. Nakala ya Huduma ya Tovuti

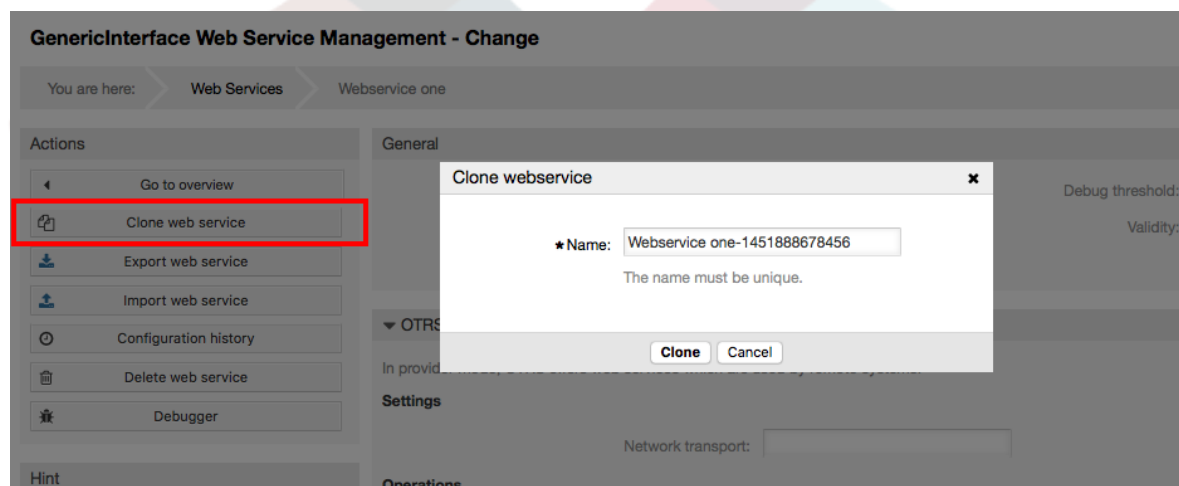
Kutengeneza nakala ya huduma ya tovuti, unahitaji ku bofya kitufe cha "Nakili huduma ya tovuti". Maongezi yatatoka ambapo unawea kutumia jina la lililopo au kuseti jina jipya kwa (nakala) ya huduma ya tovuti.

Note

Kumbuka kwamba jina la huduma ya mtandao lazima liwe la kipekee kwenye mfumo.

Bofya kitufe cha "Nakili" kutengeneza nakala ya huduma ya tovuti au "Katisha" kufunga maongezi.

Figure 4.100. Nakala ya huduma ya tovuti



11.4.3.2. Hamisha Huduma ya Tovuti

Kitufe cha "Hamisha huduma za tovuti" kinakupa nafasi ya kuweka usanidi wa huduma ya tovuti ya sasa kwenye faili la YAML, kulipakua na kuhifadhi katika mfumo wako wa mafaili. Hii inakuwa na manufaa pale unapotaka kuhamisha huduma za tovuti kutoka seva moja kwenda nyingine, kwa mfano kutoka kwenye mazingira ya kupima kwenda mazingira ya uzalishaji.

Warning

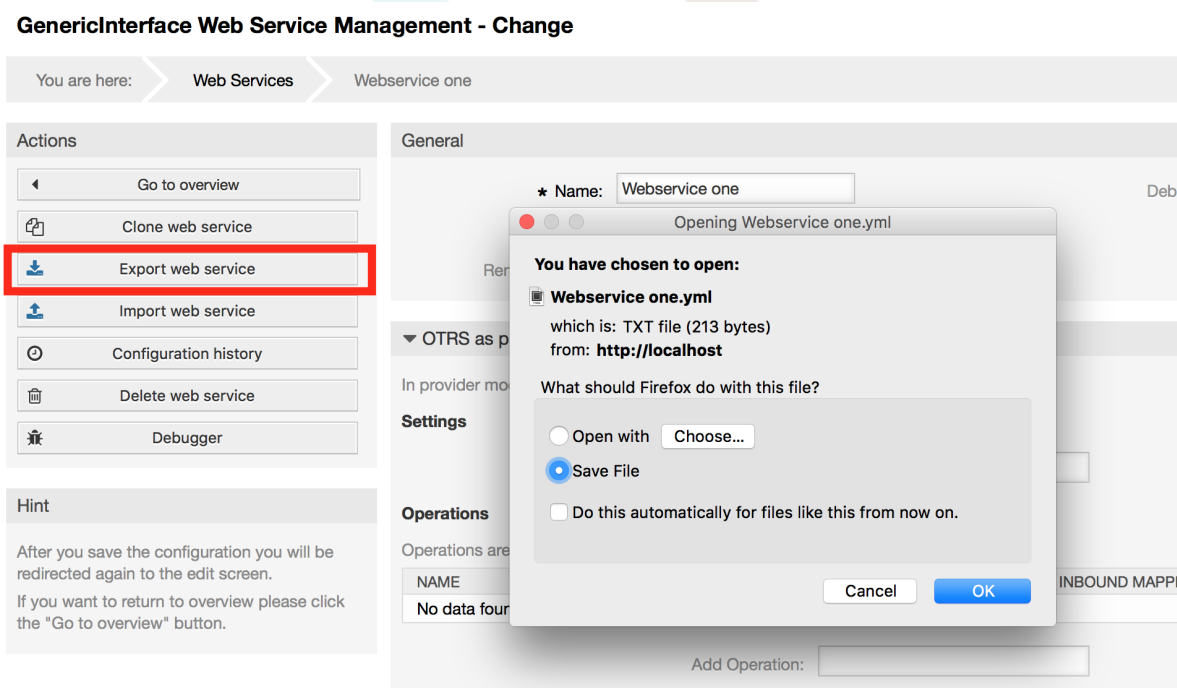
Nywila zote zilizohifadhiwa katika usanidi wa huduma ya tovuti zitahamishwa katika umbizo la nakala wazi.

Baada tu ya kubofya kitufe cha "Hamisha huduma ya tovuti" maongezi ya kuhifadhi ya kivinjari yatatokea, kama vile ukibofya kiungo cha kupakua kwenye kurasa za tovuti.

Note

Kila kivinjari katika kila mfumo endeshi kina skrini yake ya kuhifadhi maongezi na aina. Kutegemeana na kivinjari na usanidi inawezekana kwamba hakuna maongezi yanayo onyeshwa na faili linahifadhiwa kwenye mpangilio orodha chaguo-msingi katika mfumo wako wa faili. Tafdhali pitia nyaraka ya kivinjari chako kwa maelekezo zaidi kama inahitajika.

Figure 4.101. Web services export



11.4.3.3. Agiza huduma ya tovuti

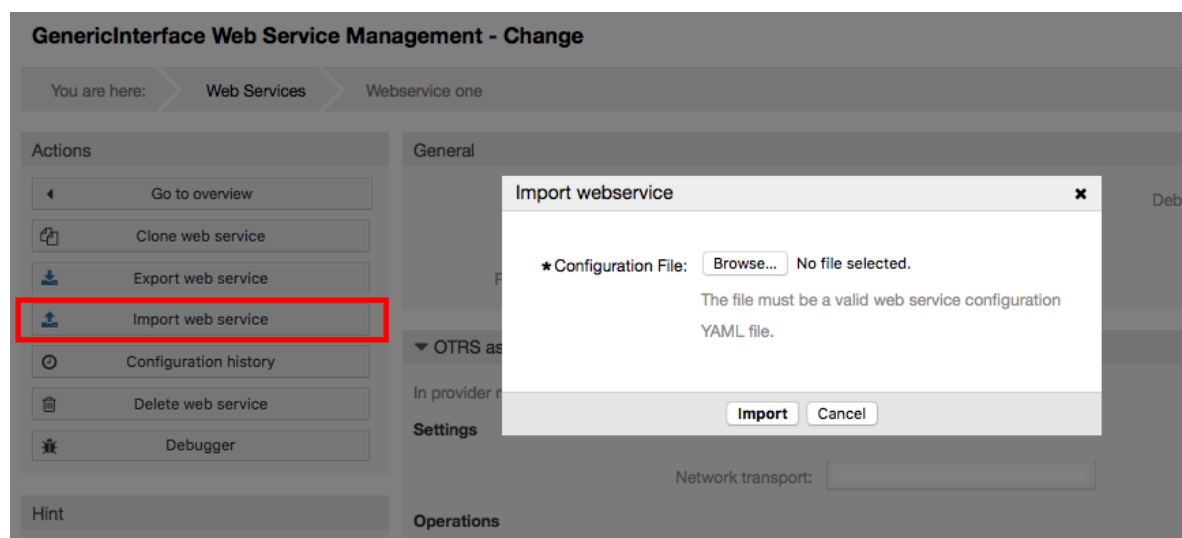
Faili halali la YAML la usanidi wa huduma ya tovuti linatakiwa kutumia kipengele cha agiza huduma ya tovuti. Bofya kitufe cha "Agiza huduma ya tovuti", tafuta faili la usanidi au toa njia kamili kwenye boksi la maingizo.

Bofya kitufe "Agiza" kutengeneza huduma mpya ya tovuti kutoka kwenye faili au "Katisha" kufunga maongezi.

Note

Jina la huduma ya tovuti litachukuliwa kutoka kwenye jina la faili la usanidi (mf. kama jina la faili ni HudumaTovutiYangu.yml hivyo basi huduma ya tovuti itaitwa HudumaTovutiYangu). Kama kuna huduma ya tovuti iliyosajiliwa kwenye mfumo kwa jina sawa na unayotaka kuagiza, mfumo utakupeleka kwenye skrini ya kubadilisha huduma ya tovuti ili kukuwezesha kubadilisha jina la huduma ya tovuti uliyoagiza.

Figure 4.102. Web services import



11.4.3.4. Historia ya Huduma ya Tovuti

Kila mabadiliko ya usanidi wa huduma ya tovuti inatengeneza ingizo jipya kwenye historia ya huduma ya tovuti (kama jarida). Skrini ya historia ya huduma ya tovuti inaonyesha orodha ya matoleo yote ya usanidi wa huduma ya tovuti. Kila safu mlalo (toleo) kwenye "Orodha ya Historia ya Usanidi" inawakilisha mojawapo ya marekebisho kwenye historia ya huduma ya tovuti.

Bofya kwenye moja ya safu mlalo kuonyesha usanidi mzima kama ulivyo kwa tarehe / muda huo. Usanidi utaonyeshwa kwenye sehemu "Undani wa Historia" ya skrini. Hapa pia unaweza kuhamisha toleo la usanidi wa huduma ya tovuti au kurejesha hilo toleo kwenye usanidi uliopo wa huduma za tovuti.

Kipengele "Hamisha usanidi wa huduma ya tovuti" kina tabia sawa na "Hamisha huduma ya tovuti" kwenye skrini ya kubadilisha huduma ya tovuti. Kwa maelezo zaidi nenda kwenye hiyo sehemu.

Kama mabadiliko kwenye usanidi wa huduma ya tovuti iliyopo hayafanyi kazi kama ilivyo-otegemewa na sio rahisi kurudisha hali kabla ya mabadiliko, bofya kitufe "Rudisha usanidi wa huduma ya tovuti". Hii itafungua maongezi yatakayokuuliza kama una uhakika unataka kurudisha usanidi wa huduma ya tovuti. Bofya "Rudisha usanidi wa huduma ya tovuti" kwenye haya maongezi kubadili usanidi uliopo na toleo lililochaguliwa, au bofya "Katisha" kufunga maongezi.

Warning

Kumbuka kwamba nywila zote zilizohofadhiwa katika usanidi wa huduma ya tovuti zita hamishwa katika umbizo la nakala wazi.

Please be careful when you restore a configuration because this process is irreversible.

Figure 4.103. Web service history

GenericInterface Configuration History for Web Service Webservice one

You are here: > Web Services > Webservice one > History

Actions

Go back to Web Service

Hint

Here you can view older versions of the current web service's configuration, export or even restore them.

Configuration History List

VERSION	CREATE TIME
11	2016-01-04 14:25:30
10	2016-01-04 14:25:26
9	2016-01-04 14:25:13
8	2016-01-04 14:25:10
7	2016-01-04 14:24:54

Select a single configuration version to see its details.

History Details: Version 11, 2016-01-04 14:25:30

Export web service configuration | Restore web service configuration

```

---
Debugger:
  DebugThreshold: debug
  TestMode: '0'
Description: First webservice
Provider:
  Operation:
    CreateTicket:
      Description: ''
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketCreate
    GetTicket:
      Description: ''
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketGet
    SearchTicket:
      Description: ''
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketSearch
    UpdateTicket:
      Description: ''
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketUpdate
  Transport:
    Config:
      Authentication: {}
      Types: HTTP::SOAP
    RemoteSystem: Any description
  Requester:
    Transport:
      Config:
        Authentication: {}
        Type: HTTP::REST
  
```

11.4.3.5. Futa Huduma ya Tovuti

Wakati mwingine ni lazima kufuta huduma ya tovuti kabisa. Kufanya hivi unabonyeza kitufe "Futa huduma ya tovuti" na maongezi mapya yatatokea kukuuliza uthibitisho.

Bofya "Futa" kuthibitisha uondoaji wa huduma ya tovuti au "Katisha" kufunga maongezi.

Warning

Kufuta huduma ya tovuti hakubadiliki, tafadhali kuwa makini wakati wa kufuta huduma ya tovuti.

Figure 4.104. Futa huduma ya tovuti

GenericInterface Web Service Management - Change

You are here: > Web Services > Webservice one

Actions

- Go to overview
- Clone web service
- Export web service
- Import web service
- Configuration history
- Delete web service
- Debugger

General

Name: Webservice one

Delete webservice ✕

Do you really want to delete this web service?

In provider mode, OTRS offers web services which are used by remote systems.

Settings

Network transport:

11.4.3.6. Kieuaji cha Huduma ya Tovuti

Anaye eua anahifadhi batli ya huduma ya tovuti. Katika skrini ya kueua unaweza kufwatilia mawasiliano yote ya huduma za tovuti kwa aidha aina za mtoaji au muombaji.

Hii skrini ikionyeshwa orodha ya maombi inaanza kupakuliwa. Baada ya orodha kujaa unaweza kuchagua moja ya safu mlalo (hii ina maana mlolongo wa mawasiliano) kukagua undani wake. Maelezo haya yatatokea kwenye boksi chini.

Unaweza kupunguza orodha ya mawasiliano kwa kutumia kichujio upande wa kulia wa skrini. Unaweza kuchuja na:

- Aina ya mawasiliano (mtoaji au mpokeaji)
- Tarehe: kabla na / au baada tarehe fulani
- Anuani ya IP ya mbali
- A combination of all

Baada ya mpangilio wa kichujio kusetiwa, bonyeza kitufe cha "Onyesha Upya" na orodha mpya itaonyeshwa inayofikia vigezo vya utafutaji wako.

Note

Kutegemea na vigezo vya utafutaji kwa vichujio orodha mpya inaweza isitoe matokeo yoyote.

Upande wa kushoto wa skrini chini ya safuwima ya kitendo unaweza kuchagua "Rudi nyuma kwenye huduma ya tovuti" au futa batli ya anaye eua kwa kubonyeza kitufe "Futa". Hii itafungua maongezi yanayo kuuliza kuthibitisha kufuta batli. Bofya "Futa" katika kitufe cha maongezi kufanya kitendo au bofya "Sitisha" kufunga maongezi.

Kwenye sehemu ya "Undani wa maombi" unaweza kuona maelezo yote ya mawasiliano yaliyochaguliwa. Hapa unaweza kufuatilia mtiririko mzima na kukagua kasoro zozote au kuthibitisha mafanikio ya majibu.

Figure 4.105. Web service debugger

GenericInterface Debugger for Web Service WebserviceOne

You are here: > Web Services > WebserviceOne > Debugger

Provider	Date	IP
Provider	2016-01-04 19:09:51	127.0.0.1
Provider	2016-01-04 19:10:57	127.0.0.1
Provider	2016-01-04 19:11:20	127.0.0.1
Provider	2016-01-04 19:11:20	127.0.0.1
Provider	2016-01-04 19:13:36	127.0.0.1
Provider	2016-01-04 19:14:14	127.0.0.1

Filter by type:

Filter from: 01 / 13 / 2015

Filter to: 01 / 04 / 2016

Filter by remote IP:

Limit: 100

Select a single request to see its details.

Request Details

Communication sequence started (2016-01-04 19:14:14, debug)

Received data by provider from remote system (2016-01-04 19:14:14, debug)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:tic="http://www.otrs.org/TicketConnector/">
  <soapenv:Header/>
  <soapenv:Body>
    <tic:TicketGet>
      <!--You have a CHOICE of the next 3 items at this level-->
      <!--Optional:-->
      <UserLogin></UserLogin>
      <!--Optional:-->
      <CustomerUserLogin?</CustomerUserLogin>
      <!--Optional:-->
      <SessionID>14j19y84EBwLGPpeEVCs81U0N6kaeRpx</SessionID>
      <ChallengeToken>L0JUK0RgS76kdWYQh5zTnrLdeYQG8yg</ChallengeToken>
      <!--Optional:-->
      <Password>test</Password>
      <!--1 or more repetitions:-->
      <TicketID>1</TicketID>
      <!--Optional:-->
      <OperationType>TicketGet</OperationType>
      <!--Optional:-->
      <DynamicFields?</DynamicFields>
      <!--Optional:-->
      <Extended?</Extended>
      <!--Optional:-->
      <AllArticles?</AllArticles>
      <!--Optional:-->
      <ArticleSenderType?</ArticleSenderType>
      <!--Optional:-->
      <ArticleOrder?</ArticleOrder>
      <!--Optional:-->
      <ArticleLimit?</ArticleLimit>
      <!--Optional:-->
      <Attachments?</Attachments>
    </tic:TicketGet>
  </soapenv:Body>
</soapenv:Envelope>
```

Detected operation 'TicketGet' (2016-01-04 19:14:14, debug)

No data provided

Incoming data before mapping (2016-01-04 19:14:14, debug)

```
$VAR1 = {
  'AllArticles' => '?',
  'ArticleLimit' => '?',
  'ArticleOrder' => '?',
  'ArticleSenderType' => '?',
  'Attachments' => '?',
  'ChallengeToken' => 'L0JUK0RgS76kdWYQh5zTnrLdeYQG8yg',
  'CustomerUserLogin' => '?',
  'DynamicFields' => '?',
  'Extended' => '?',
  'OperationType' => 'TicketGet',
  'Password' => 'test',
  'SessionID' => '14j19y84EBwLGPpeEVCs81U0N6kaeRpx',
  'TicketID' => '1',
  'UserLogin' => ''
};
```

Outgoing data before mapping (2016-01-04 19:14:15, debug)

Returning provider data to remote system (HTTP Code: 200) (2016-01-04 19:14:15, debug)

```
<?xml version="1.0" encoding="UTF-8"?><soap:Envelope soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
```

11.4.3.7. Badili Usanidi wa Huduma ya Tovuti

Tukirudi kwenye skrini ya kubadilisha huduma ya tovuti, sasa tutafanya mapitio ya upande wake wa kulia. Hapa tuna uwezo wa kubadili data zote za ujumla za huduma ya tovuti kama jina, maelezo, kizingiti cha kueua, na kadhalika. Pia kuna sehemu nyingine mbili chini zinazoturuhusu kubadili parameta maalumu za aina za mawasilinao "OTRS kama Mtoaji" na "OTRS kama Muombaji".

Usanidi wa huduma ya tovuti unahitaji kuhifadhiwa katika kila hatua. Hii inamaanisha kama mpangilio umebadilishwa, viungo vya kwenda kwa sehemu nyingine za ndani za usanidi vitalemazwa kukulazimisha wewe kuhifadhi usanidi wa ngazi uliyopo. Baada ya kuhifadhi viungo vilivyo lemazwa vitawezeshwa tena kukuwezesha kuendelea na usanidi.

Katika kifungu "OTRS kama mtoaji" inawezekana kuseti au kusanidi itifaki ya usafirishaji wa mtandao. Mazingira ya nyuma ya usafirishaji mtandao yaliyosajiliwa tu ndiyo

yanaonyeshwa kwenye orodha. Kusanidi usafirishaji wa mtandao bofya kwenye kifufe cha "Sanidi". Pia inawezekana kuongeza operesheni mpya katika boksi hili. Kufanya hivi chagua moja ya operesheni zilizopo kutoka kwenye orodha "Ongeza Operesheni". Hii itakupeleka kwenye skrini ya kusanidi operesheni. Baada ya kuhifadhi operesheni mpya itaorodheshwa kwenye jedwali juu.

"OTRS kama muombaji" ni sawa na iliyopita, lakini badala ya "operesheni" unaweza kuongeza wachochezi hapa.

Bofya kitufe "Hifadhi" kuhifadhi na kuendelea na usanidi wa huduma za tovuti, "Hifadhi na maliza" kuhifadhi na kurudi kwenye skrini ya mapitio ya huduma za tovuti, au "Sitisha" kupuuza mabadiliko ya ngazi za usanidi wa sasa na kurudi kwenye skrini ya mapitio ya huduma za tovuti.

Figure 4.106. Web services change

GenericInterface Web Service Management - Change

You are here: Web Services > Webservice one

Actions

- Go to overview
- Clone web service
- Export web service
- Import web service
- Configuration history
- Delete web service
- Debugger

Hint

After you save the configuration you will be redirected again to the edit screen. If you want to return to overview please click the "Go to overview" button.

General

Name: Webservice one Debug threshold: Debug

Description: First webservice Validity: valid

Remote system: Any description

OTRS as provider

In provider mode, OTRS offers web services which are used by remote systems.

Settings

Network transport: HTTP:SOAP [Configure](#)

Operations

Operations are individual system functions which remote systems can request.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
CreateTicket	-	Ticket::TicketCreate	-	-
GetTicket	-	Ticket::TicketGet	-	-
SearchTicket	-	Ticket::TicketSearch	-	-
UpdateTicket	-	Ticket::TicketUpdate	-	-

Add Operation:

OTRS as requester

In requester mode, OTRS uses web services of remote systems.

Settings

Network transport: HTTP:REST [Configure](#)

Invokers

Invokers prepare data for a request to a remote web service, and process its response data.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
No data found.				

Add Invoker:

Save

[Save](#) or [Save and finish](#) or [Cancel](#)

Note

Kama skrini nyingine za ujumla za Kiolesura cha usanidi kwa mfano Usafirishaji wa Mtandao, Operesheni, Mchochezi na Muunganiko, skrini ya usanidi (ongeza) wa awali itaonyesha machaguo mawili: "Hifadhi" na "Sitisha". Usanidi ukirudiwa, chaguo jipya "Hifadhi na Maliza" litaonekana. Tabia ya kipengele hiki imafafanuliwa chini.

"Hifadhi" itahifadhi usanidi wa ngazi uliyopo kwa sasa kwenye hifadhidata na itarudi kwenye skrini iliyopita kufanya mapitio ya mabadiliko uliyofanya au kufanya usanidi wa mipangilio ya ndani.

"Hifadhi na Maliza" itahifadhi usanidi wa ngazi uliyopo kwa sasa kwenye hifadhidata na itarudi kwenye skrini iliyopita kwenye mfumo wa viwango wa usanidi (kwa ngazi ya juu inayofuata ya usanidi)

"Katisha" itapuuza mabadiliko yoyote ya usanidi kwa ngazi uliyopo na itarudi kwenye skrini iliyopita kwenye mfumo wa viwango wa usanidi.

11.4.3.7.1. Usafirishaji Mtandao wa Mtoaji wa Huduma ya Tovuti

In future the list of available network transports will be increased. Currently only "HTTP::SOAP" and "HTTP::REST" transports are available. Each transport has different configuration options to setup and they might use different frontend modules to configure them.

Ni rahisi kusanidi itifaki "HTTP::SOAP" kama mtoaji. Kuna mipangilio miwili tu: "Nafasiyajina" na "Upeo wajuu wa urefu wa ujumbe". Hizi sehemu zinahitajika. Ya kwanza ni URI kuzipa njia za SOAP maudhui, kupunguza utata, na ya pili ni sehemu ambayo unaweza kuweka bayana ukomo wa juu wa ukubwa (katina baiti) kwa ujumbe wa SOAP ambao OTRS itachakatisha.

Figure 4.107. Web service provider network transport (HTTP::SOAP)

GenericInterface Transport HTTP::SOAP for Web Service Webservice one

You are here: > Web Services > Webservice one > Provider Transport HTTP::SOAP

Actions

Go back to web service

Network transport

Properties

Type: HTTP::SOAP

★ Namespace:
 URI to give SOAP methods a context, reducing ambiguities.
 e.g urn:otrs-com:soap:functions or http://www.otrs.com/GenericInterface/actions

★ Request name scheme:
 Select how SOAP request function wrapper should be constructed.
 'FunctionName' is used as example for actual invoker/operation name.
 'FreeText' is used as example for actual configured value.

★ Response name scheme:
 Select how SOAP response function wrapper should be constructed.
 'FunctionName' is used as example for actual invoker/operation name.
 'FreeText' is used as example for actual configured value.

★ Maximum message length:
 Here you can specify the maximum size (in bytes) of SOAP messages that OTRS will process.

Sort options:

Add new first level element: Add

Outbound sort order for xml fields (structure starting below function name wrapper) - see documentation for SOAP transport.

Save or Save and finish or Cancel

For "HTTP::REST" the configuration might be a bit more complicated, as it grows dynamically for each configured operation by adding: "Route mapping for Operation '<OperationName>':" and "Valid request methods for Operation '<OperationName>':" settings to the default transport settings "Maximum message length:" and "Send Keep-Alive:"

- Route mapping for Operation '<OperationName>':

In this setting a resource path is set. This path must be defined according to the needs of the web service considering that the path in conjunction with the HTTP request method determines the Generic Interface operation to be executed.

Path can contain variables in the form of '<VariableName>' each path string that fits on the position of the variable name will be added to the request payload using the variable name defined in this setting.

Mifano:

Route mapping: /Resource

- Valid requests:

<http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource>

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource?Param1=One`

- Invalid requests:

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource?Param1=One`

Route mapping: `/Resource/:ID`

- Valid requests:

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/1`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/1?Param1=One`

In both cases ID = 1 will be sent to the operation as part of the payload. In the second case also Param1 = One will be added, depending on the HTTP request method other parameters will be added if they come as a JSON string in the request header.

- Invalid requests:

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource?Param1=One`

Route mapping: `/Resource/OtherResource/:ID/:Color`

- Valid requests:

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource/1/Red`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource/123/Blue?Param1=One`

In the first example ID = 1 and Color = Red, while in the second ID = 123 and Color = Blue.

- Invalid requests:

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/1`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource/1`

`http://localhost/otrs/nph-genericinterface.pl/Webservice/Test/Resource/OtherResource/1?Param1=One`

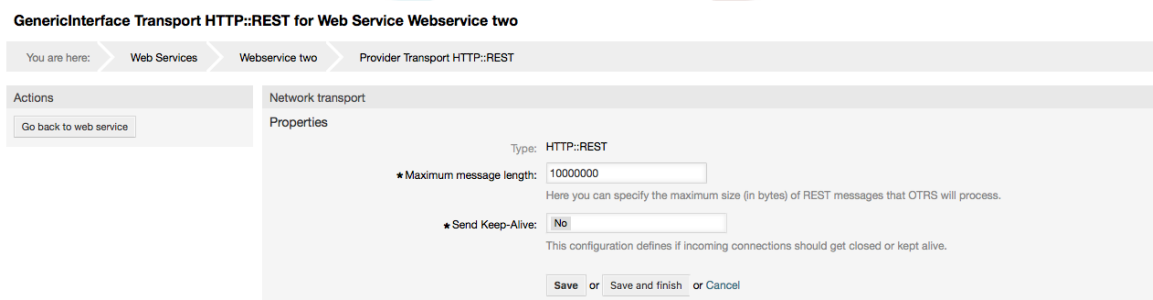
In the first example the part of the path `'/OtherResource'` is missing as well as the `:Color` variable, on the second example just `:Color` variable is missing.

- Valid request methods for Operation `'<OperationName>'`:

The HTTP request methods to determine the operation to use together with the route mapping, possible options: CONNECT, DELETE, GET, HEAD, OPTIONS, PATCH, POST, PUT and TRACE.

Totally different operations can share exactly the same mapping path, but the request method must be unique for each operation, in order to determine correctly the operation to use on each request.

Figure 4.108. Web service provider network transport (HTTP::REST)



11.4.3.7.2. Operesheni ya Huduma ya Tovuti

The actions that can be performed when you are using OTRS as a provider are called "Operations". Each operation belongs to a controller. Controllers are collections of operations or invokers, normally operations from the same controller need similar settings and share the same configuration dialog. But each operation can have independent configuration dialogs if needed.

Name, Description, Backend, and Mappings are fields that normally appear on every operation, other special fields can appear in non default configuration dialogs to fulfill specific needs of the operation.

Kawaida kuna sehemu mbili za usanidi wa miunganiko katika kila operesheni, moja kwa data zinazolingia nyingine kwa data zinazotoka. Unaweza kuchagua aina nyingi za miunganiko (mazingira ya nyuma) kwa kila mwelekeo wa muunganiko, kwa kuwa usanidi wake ni huru kutoka kwa mwingine na pia kutoka kwa mazingira ya nyuma ya operesheni. Zoezi la kwaida na linalofaamika ni operesheni kutumia aina sawa ya miunganiko katika kesi zote mbili (na usanidi uliogeuzwa). Usanidi kamili wa muunganiko unafanyika katika skrini tofauti ambayo inategemea na aina ya muunganiko.

Mazingira ya nyuma ya operesheni yamejazwa tayari na haiwezekani kuhariri. Utaona parameta hii ukichagua operesheni katika skrini ya kuhariri huduma ya wavuti. Sehemu hiyo inatoa taarifa.

In the left part of the screen on the action column you have the options: "Go back to web service" (discarding all changes since the last save) and "Delete". If you click on the last one, a dialog will open and ask you if you like to remove the operation. Click on "Delete" button to confirm the removal of the operation and its configuration or "Cancel" to close the delete dialog.

Figure 4.109. Web service operation

Change Operation CreateTicket of Web Service Webservice one

You are here: > Web Services > Webservice one > Change operation CreateTicket

Actions

◀ Go back to web service

🗑 Delete

Operation Details

★ Name:
The name is typically used to call up this web service operation from a remote system.

Description:

Mapping for incoming request data:
The request data will be processed by this mapping, to transform it to the kind of data OTRS expects.

Operation backend:
This OTRS operation backend module will be called internally to process the request, generating data for the response.

Mapping for outgoing response data:
The response data will be processed by this mapping, to transform it to the kind of data the remote system expects.

or or

11.4.3.7.3. Usafirishaji Mtandao wa Muombaji wa Huduma ya Tovuti

Usanidi wa usafirishaji mtandao wa muombaji ni sawa na usanidi wa mtoaji. Kwa Muombaji usafirishaji mtandao wa "HTTP::SOAP" kuna sehemu nyingi zaidi kusetiwa.

Kuachana na "Pointiyamwisho" (URI ya kiolesura cha huduma ya tovuti ya Mfumo wa Mbali kukubali maombi) na "Jinanafasi" ambazo ndiyo sehemu zinazotakiwa, unaweza pia kubainisha:

- Usimbaji (kama utf-8, latin1, iso-8859-1, cp1250, na kdhalika) kwa ajili ya ujumbe wa SOAP.
- SOAPAction Header: you can use this to send an empty or filled SOAPAction header. Set to "No" and the SOAPAction header on the SOAP message will be an empty string, or set to "Yes" to send the SOAP action in Namespace#Action format and define the separator (typically "/" for .Net web services and "#" for the REST).
- Uthibitisho: kuseti utaratibu wa uthibitisho, seti kuwa "-" ili kutokutumia uthibitisho wowote au chagua moja kutoka kwenye orodha na sehemu za undani zitatokea.

Note

Currently only the "BasicAuth" (HTTP) authentication mechanism is implemented. You can decide whether or not to use it depending on the Remote System configuration. If used, you must provide the User Name and the Password to access the remote system.

Warning

Ukitoa nywila kwa ajili ya uthibitisho na baada ya kutuma huduma ya mtandao kwenda kwenye faili la YAML hii nywila itaonyeshwa na kuandikwa kwenye tungo ya nakala wazi ndani ya faili la YAML. Kuwa makini nayo na chukua tahadhari kama ikihitajika.

Figure 4.110. Web service requester network transport (HTTP::SOAP)

GenericInterface Transport HTTP::SOAP for Web Service Webservice one

You are here: > Web Services > Webservice one > Requester Transport HTTP::SOAP

Actions

Go back to web service

Network transport

Properties

Type: HTTP::SOAP

★ Endpoint:
 URI to indicate a specific location for accessing a service.
 e.g. http://local.otrs.com:8000/Webservice/Example

★ Namespace:
 URI to give SOAP methods a context, reducing ambiguities.
 e.g. urn:otrs-com:soap:functions or http://www.otrs.com/GenericInterface/actions

★ Request name scheme:
 Select how SOAP request function wrapper should be constructed.
 'FunctionName' is used as example for actual invoker/operation name.
 'FreeText' is used as example for actual configured value.

★ Response name scheme:
 Select how SOAP response function wrapper should be constructed.
 'FunctionName' is used as example for actual invoker/operation name.
 'FreeText' is used as example for actual configured value.

Encoding:
 The character encoding for the SOAP message contents.
 e.g. utf-8, latin1, iso-8859-1, cp1250, Etc.

SOAPAction:
 Set to "Yes" to send a filled SOAPAction header.
 Set to "No" to send an empty SOAPAction header.

SOAPAction separator:
 Character to use as separator between name space and SOAP method.
 Usually .Net web services uses a "/" as separator.

Authentication:
 The authentication mechanism to access the remote system.
 A "-" value means no authentication.

Proxy Server:
 URI of a proxy server to be used (if needed).
 e.g. http://proxy_hostname:8080

Proxy User:
 The user name to be used to access the proxy server.

Proxy Password:
 The password for the proxy user.

Use SSL Options:
 Show or hide SSL options to connect to the remote system.

Sort options:

Add new first level element: Add

Outbound sort order for xml fields (structure starting below function name wrapper) - see documentation for SOAP transport.

Save or Cancel

In the case of HTTP::REST, this configuration also grows dynamically depending on the configured invokers by adding "Controller mapping for Invoker '<InvokerName>':" and "Valid request command for Invoker '<InvokerName>':" for each invoke. Authentication and SSL options are similar to the ones in HTTP::SOAP

- Mwenyeji

The host name or IP Address and port of the remote system, if no port is specified, port 80 is used by default.

- Controller mapping for Invoker '<InvokerName>':

In this setting a resource path is set. This path must be defined according to the needs of the remote web service and following its definition.

Path can contain variables in the form of '<VariableName>' for each variable name that matches the current data (to be sent), will be replaced by the corresponding data value. This matched variable names and values will be removed from the current data. Depending on the HTTP request command the remaining data could be sent as a JSON string in the request body or as query parameters within the URI.

Mifano:

For data: Var1 = One, Var2 = Two, Var3 = Three and Var4 = Four.

Controller mapping: /Resource

- After Replacements:

/Resource

- Remaining Data:

Var1 = One, Var2 = Two, Var3 = Three and Var4 = Four

Controller mapping: /Resource/:Var1

- After Replacements:

/Resource/One

- Remaining Data:

Var2 = Two, Var3 = Three and Var4 = Four

Controller mapping: /Resource/:Var1?Param1=:Var2&Var3=:Var3

- After Replacements:

/Resource/One?Param1=Two&Var3=Three

- Remaining Data:

Var4 = Four

- Valid request command for Invoker '<InvokerName>':

This determine the HTTP request method to use, possible options: CONNECT, DELETE, GET, HEAD, OPTIONS, PATCH, POST, PUT and TRACE. If no command is selected, Default command is used.

- Sharti chaguo-msingi

Used as a fall-back for all Invokers without a defined request command.

Figure 4.111. Web service provider network transport (HTTP::REST)

GenericInterface Transport HTTP::REST for Web Service Webservice one

You are here: > Web Services > Webservice one > Requester Transport HTTP::REST

Actions

Go back to web service

Network transport

Properties

Type: HTTP::REST

* Host:
 Remote host URL for the REST requests.
 e.g https://www.otrs.com:10745/api/v1.0 (without trailing backslash)

* Controller mapping for Invoker 'InvokerOne':
 The controller that the invoker should send requests to. Variables marked by a ':' will get replaced by the data value and passed along with the request. (e.g. /Ticket/:TicketID?UserLogin=:UserLogin&Password=:Password).

Valid request command for Invoker 'InvokerOne':
 A specific HTTP command to use for the requests with this Invoker (optional).

Default command:
 The default HTTP command to use for the requests.

Authentication:
 The authentication mechanism to access the remote system.
 A "-" value means no authentication.

Use SSL Options:
 Show or hide SSL options to connect to the remote system.

Save or Save and finish or Cancel

11.4.3.7.4. Mchochezi wa Huduma ya Wavuti

The actions that can be performed when you are using OTRS as a requester are called "Invokers". Each invoker belongs to a controller (controllers are collections of operations or invokers). Usually invokers from the same controller need similar settings and share the same configuration dialogs. Each invoker can have independent configuration dialogs if needed.

Name, Description, Backend, and Mappings are fields that normally appear on every invoker. Additionally the list of event triggers and other special fields can appear on non default configuration dialogs to fulfill special needs of the invoker.

Kwa kawaida kuna sehemu mbili za usanidi wa muunganiko kwa kila mchochezi, moja kwa data zinazolingia na nyingine kwa data zinazotoka. Unaweza kuchagua aina tofauti za miunganiko (mazingira ya nyuma) kwa kila mwelekeo, kwa kuwa usanidi wake ni huru kutoka kwa nyenzake na huru kutoka mazingira ya nyuma ya mchochezi. Zoezi la kawaida na linalofahamika ni mchochezi kutumia aina moja ya muunganiko kwa kesi zote mbili, na usanidi uliogeuzwa. Usanidi kamili wa miunganiko unafanywa kwenye skrini tofauti, ambayo inategemea aina ya muunganiko.

Mazingira ya nyuma ya mchochezi yamejazwa tayari na haiwezekani kuhariri. Utaona parameta hii ukichagua mchochezi katika skrini ya kuhariri huduma ya wavuti. Sehemu hiyo inatoa taarifa.

Event triggers are events within OTRS such as "TicketCreate", "ArticleSend", etc. These can act as triggers to execute the invoker. Each invoker needs to have at least one event trigger registered, or the invoker will be useless, because it will never be called. The asynchronous property of the event triggers define if the OTRS process will handle the invoker or if it will be delegated to the OTRS Daemon.

Note

The OTRS Daemon is a separate set of process that executes tasks in the background. Using this the OTRS process itself will not be affected if the Remote System takes a long time to respond, if it is not available or if there are network problems. If you don't use the OTRS Daemons using web services can make OTRS slow or non-responsive. Therefore it is highly recommend to use asynchronous event triggers as often as possible.

Kuongeza kichochezi cha tukio, kwanza chagua familia ya tukio kutoka kwenye orodha ya kwanza, kisha jina la tukio katika orodha ya pili, kisha seti sifa solandanifu (kama haijatikiwa ina maanisha kichochezi cha tukio kitakuwa sio solandanifu) na mwisho bofya kitufe cha kujumlisha. Kichochezi kipya cha matukio kitakuwa kimetengenezwa na kiawekwa kwenye orodha ya wachochezi "Vichochezi vya Matukio".

To delete an Event trigger, simply locate the event trigger to be deleted in the "Event Triggers" list and click on the trash icon at the end of the row. This will open a dialog that asks you if you are sure to delete the event trigger. Click "Delete" to remove the event trigger from the list, or "Cancel" to close the dialog.

Kwenye upande wa kushoto wa skrini katika safuwima ya vitendo una machaguo: "Rudi nyuma kwenye huduma za wavuti" (puuza maadiliko yote kuanzia uhifadhi wa mwisho) na "Futa". Kama ukibofya kitufe cha mwisho maongezi yatatokea na kukuuliza kama ungependa kuondoa mchochezi. Bofya kitufe cha "Futa" kuthibitisha uondoaji wa mchochezi na usanidi wake au "Sitisha" kufunga maongezi.

Figure 4.112. Web service invoker

Change Invoker InvokerOne of Web Service Webservice one

You are here: > Web Services > Webservice one > Change Invoker InvokerOne

Actions

Go back to web service

Delete

Invoker Details

Name: InvokerOne
The name is typically used to call up an operation of a remote web service.

Description: User for remote ticket creation

Invoker backend: Ticket::TicketCreate
This OTRS invoker backend module will be called to prepare the data to be sent to the remote system, and to process its response data.

Mapping for outgoing request data: Simple
The data from the invoker of OTRS will be processed by this mapping, to transform it to the kind of data the remote system expects.

Mapping for incoming response data: XSLT
The response data will be processed by this mapping, to transform it to the kind of data the invoker of OTRS expects.

Event Triggers:

EVENT	ASYNCHRONOUS	DELETE
TicketCreate	Yes	<input type="button" value=""/>

This invoker will be triggered by the configured events.

Add Event Trigger: Ticket EscalationResponseTimeNotifyBefore Asynchronous

To add a new event select the event object and event name and click on the "+" button.
Asynchronous event triggers are handled by the OTRS Scheduler Daemon in background (recommended).
Synchronous event triggers would be processed directly during the web request.

Save or Save and finish or Cancel

11.4.3.7.5. Kuunganisha Huduma za Wavuti

There are cases where you need to transform the data from one format to another (map or change data structure), because normally a web service is used to interact with a Remote System, that is highly probable that is not another OTRS system and / or could not understand the OTRS data structures and values. In these cases some or all values have to be changed, and sometimes even the names of the values (keys) or even the complete structure, in order to match with the expected data on the other end. To accomplish this task the Generic Interface Mapping Layer exists.

Kila Mfumo wa Mbali una muundo wake wa data na inawezekana kutengeneza moduli mpya za muunganiko kwa kila kesi (mf. kuna moduli ya muunganiko maalumu kwa SAP Meneja Usuluhishi inayosafirishwa na OTRS), lakini sio ya lazima. Muunganiko wa moduli::Rahisi inatakiwa kukidhi mahitaji mengi ya muunganiko.

Note

Wakati Muunganiko::Rahisi haukidhi mahitaji yote ya muunganiko kwa huduma ya wavuti, moduli mpya ya muunganiko inatakiwa itengenezwe. Kujifunza zaidi

kuhusu kutengeneza moduli mpya ya muunganiko tafadhali pitia Mwongozo wa Maendeleo wa OTRS.

Hii moduli inakupa nafasi ya kuseti thamani chaguo-msingi za kuunganisha kwa kila ufunguo au thamani kwa mawasiliano yote ya data.

Mwanzo wa skrini utaona kifungu cha kawaida ambapo unaweza kuseti sheria chaguo-msingi ambazo zitafanya kazi kwa funguo na thamani zote ambazo hazijaunganishwa. Kuna machaguo matatu yanayopatikana, haya machaguo yameorodheshwa chini:

- Weka (acha bila kubadilisha): haigusi funguo au thamani kwa njia yoyote.
- Puuza (dondosha jozi ya ufunguo/thamani): hii ikitumika katika ufunguo inafuta ufunguo na thamani, kwa sababu ufunguo ukifutwa pia na thamani yake husika inafutwa pia. Hii ikitumika kwa hii thamani, thamani tu ndiyo inafutwa, kuacha ufunguo, hiyo sasa itahusishwa na ufunguo ulio tupu.
- Unganisha Kwenda (tumia ufunguo uliotolewa au thamani kama chaguo-msingi): funguo zote na / au thamani bila sheria ya miunganiko, zitatumia hii kama chaguo-msingi, ukichagua hili chaguo sehemu mpya ya nakala itatokea kuweka hii kama chaguo-msingi.

Kubofya kwenye kitufe "+" kwa ufunguo mpya wa muunganiko, itaonyesha boksi jipya kwa usanidi wa muunganiko mmoja. Unaweza kuongeza funguo nyingi za muunganiko kadri ya mahitaji yako. Bonyeza tena kwenye kitufe "+" na boksi jipya la muunganiko litaonekana chini ya lililokuwepo. Kutoka kwenye haya maboksi ya muunganiko unaweza kufafanua muunganiko wa ufunguo mmoja, na machaguo yanayofwata:

- Thamni halisi(moja au nyingi): tungo ya ufunguo wa zamani itabadilishwa kuwa mpya kama ufunguo wa zamani utafanania kabisa.
- Regular expression: the key string will be replaced following a regular expression rule.

Kubonyeza kitufe cha thamani mpya ya kuunganisha "+" itaonyesha safu mlalo mpya kwa ajili ya thamani ya kuunganisha. Hapa inawezekana pia kufafanua sheria kwa kila thamani ya kuunganishwa ikiwa na machaguo yale yale kama ya ramani ya ufunguo (Thamani halisi na Usemi wa kawaida). Unaweza kuongeza thamani nyingi kwenye muunganiko kama inavyohitajika, na kama unataka kufuta moja wapo, bonyeza tu kwenye kitufe "-" kwa kila safu mlalo ya muunganiko.

Kufuta kifungu (boksi) muunganiko kamili wa ufunguo inawezekana, bonyeza tu katika kitufe "-" kilicho kwenye upande wa juu kulia wa kila boksi unalotaka kufuta.

Kama unahitaji kufuta kikamilifu usanidi wa muunganiko: rudi nyuma katika operesheni husika au skrini ya mchochezi, angalia mwelekeo wa muunganiko unaouchagua kabla na seti thamani yake kuwa "-", na hifadhi usanidi kufanya mabadiliko.

Figure 4.113. Web service mapping

GenericInterface Mapping Simple for Web Service Webservice one

You are here: Web Services > Webservice one > Operation CreateTicket > Simple Mapping for Outgoing Data

Actions

Mapping Simple

Default rule for unmapped keys:
 This rule will apply for all keys with no mapping rule.

Default rule for unmapped values:
 This rule will apply for all values with no mapping rule.

New key map:

▼ Mapping for Key KeyNew

Key mapping: * Map key: matching the: * to new key:

Value mapping: * Map value: matching the: * to new value:

* Map value: matching the: * to new value:

New value map:

or or

11.5. Kiolesura cha Tungo Amri cha Huduma ya Tovuti.

The bin/otrs.Console.pl Admin::WebService::* commands were developed in order to create basic, but fast and powerful tools to work with web service configurations. They give you the ability to perform the following actions:

- Ongeza: kutengeneza huduma za tovuti kwa kutumia faili la YAML kama chanzo cha usanidi.
- Sasisha: kubadilisha huduma ya tovuti iliyopo, usanidi unaweza kubadilishwa kwa kutumia faili la YAML tofauti au lililoboreshwa.
- Dump: to save the current web service configuration to a file.
- Orodha: kupata orodha nzima ya huduma za tovuti zilizosajiliwa kwenye mfumo.
- Futa: kufuta huduma ya tovuti kutoka kwenye mfumo. Kuwa makini ukiitumia, kwa sababu kitendo hiki hakiwezi kubadilishwa.

Mfano: Kutengeneza usanidi mpya wa huduma ya mtandao:

```
shell> bin/otrs.Console.pl Admin::WebService::Add --name <webservice_name> --source-path /path/to/yaml/file
```

11.6. Usanidi wa Huduma za Tovuti

Kutoka kwenye usanifu wake huduma za tovuti zilionekana kuweza kutumika kutoa mfumo mmoja wa OTRS kwenda mwingine, mf. kutoka kwenye mazingira ya majaribio au usanifu kwenda kwenye mazingira ya uzalishaji. Kwa hiyo ilihitajika kuwa na njia rahisi ya kupata usanidi wa huduma za tovuti kutoka kwenye hifadhidata, na kuhamishia kwenye nyingine. Kufanikisha kazi hii Kiolesura cha Ujumla kinatumia mafaili ya YAML kama msingi wa usanidi wa huduma za tovuti.

Kwanini YAML? YAML ni lugha ya dhulisho mabadiliko iliyoundwa kuwa rafiki kwa binadamu kuandika na kusoma (ni rahisi kuelewa zaidi ya JSON) , haina baadhi ya vikwazo vya XML

kama lebo za tarakimu, ni wazi, ya kawaida, na ni kamili zaidi kuhifadhi usanidi mzima wa huduma ya tovuti.

Note

Kujifunza zaidi kuhusu YAML tafadhali tembelea <http://www.yaml.org/>.

ufuatao ni mfano wa usanidi wa huduma ya tovuti katika muundo wa YAML:

```
---
Debugger:
  DebugThreshold: debug
Description: This an example of a web service configuration
Provider:
  Operation:
    CloseIncident:
      Description: This is a test operation
      MappingInbound: {}
      MappingOutbound: {}
      RemoteSystemGuid: ''
      Type: Test::Test
    Test:
      Description: This is a test operation
      MappingInbound:
        Config:
          KeyMapDefault:
            MapTo: ''
            MapType: Keep
          KeyMapExact:
            Prio: Priority
          ValueMap:
            Priority:
              ValueMapExact:
                Critical: 5 Very High
                Information: 1 Very Low
                Warning: 3 Normal
            ValueMapDefault:
              MapTo: 3 Normal
              MapType: MapTo
          Type: Simple
      MappingOutbound:
        Config:
          KeyMapDefault:
            MapTo: ''
            MapType: Ignore
          KeyMapExact:
            Priority: Prio
          ValueMap:
            Prio:
              ValueMapExact:
                1 Very Low: Information
                3 Normal: Warning
                5 Very High: Critical
            ValueMapDefault:
              MapTo: ''
              MapType: Ignore
          Type: Simple
      Type: Test::Test
  Transport:
    Config:
      MaxLength: 10000000
      Namespace: http://www.example.com/actions
      Type: HTTP::SOAP
  RemoteSystem: remote.system.description.example.com
Requester:
  Invoker:
    Test:
      Description: This is a test invoker
      Events:
        - Asynchronous: 1
```



```
Event: TicketCreate
- Asynchronous: 0
Event: ArticleUpdate
MappingInbound:
  Type: Simple
MappingOutbound:
  Type: Simple
  Type: Test::Test
Transport:
Config:
  Authentication:
    Password: '*****'
    Type: BasicAuth
    User: otrs
  Encoding: utf-8
  Endpoint: http://www.example.com:8080/endpoint
  NameSpace: http://www.example.com/actions
  SOAPAction: Yes
  SOAPActionSeparator: '#'
Type: HTTP::SOAP
```

11.6.1. Undani wa Usanidi

11.6.1.1. Ujumla

- Maelezo: nakala fupi inayoelezea huduma ya tovuti.
- MfumoMbali: maelezo mafupi ya Mfumo wa Mbali.
- Anaye eua: chombo cha mipangilio ya anaye eua.
- Mtoaji: chombo cha mipangilio ya mtoaji.
- Muombaji: chombo cha mipangilio ya muombaji.

11.6.1.2. Anaye eua

- DebugThreshold: the debugger level.

Thamani ziwezekanazo

- eua: batli zote zinahifadhiwa kwenye hifadhidata.
- Taarifa: batli za tabaka la taarifa, notisi na kasoro ndio zinahifadhiwa katika hifadhidata.
- notisi: batli za tabaka la notisi na makosa ndio zinahifadhiwa kwenye hifadhidata.
- kosa: batli za tabaka la makosa tu ndio zinahifadhiwa kwenye hifadhidata.

11.6.1.3. Mtoaji

- Operesheni: chombo kwa kila mipangilio ya operesheni.
- Usafirishaji: chombo cha mipangilio ya mtoaji usafiri wa mtandao.

11.6.1.3.1. Operesheni

- <Opereshenijina>: Jina la kipekee kwa operesheni, chombo cha mipangilio yake ya operesheni (nambari ya elementi 0..n, haitakiwi kujirudia).

11.6.1.3.1.1. <JinaOperesheni>

Hiki kifungu kinajikita katika operesheni kutoka aina "Test::Test" operesheni nyingine zinaweza kuwa na zaidi au mipangilio mingine.

- Maelezo: nakala fupi inayoelezea operesheni.
- KuunganishaZinazoingia: chombo cha kuunganisha mipangilio ya data za maombi yanayoingia.
- KuunganishaZinazotoka: chombo cha kuunganisha mipangilio ya data za majibu yanayotoka.
- Aina: mazingira ya nyuma ya operesheni, katika Mdhibili::Umbizo la operesheni.

11.6.1.3.1.1.1. KuunganishaZinazoingia

Kifungu hiki kinajikita katika miunganiko ya aina "Rahisi". Miunganiko mingine inaweza kuwa na mipangilio zaidi au tofauti.

- Usanidi: chombo cha kuunganisha mipangilio hii.
- Aina: kuunganisha mazingira ya nyuma.

11.6.1.3.1.1.1.1. Usanidi

- UfunguoUganishaChaguo-msingi: chombo cha mipangilio yote ya funguo isiyunganishwa.
- ThamaniUganishaChaguo-msingi: chombo cha mipangilio ya thamani zote zisizunganishwa.
- FunguoUganishaHalisi: chombo cha miunganiko yote halisi ya funguo (nambari ya elementi 0 .. 1)
- UfunguoUganishaRegEx: chombo cha miunganiko yote ya semi za kawaida za ufunguo (nambari ya elementi 0 .. 1).
- ThamaniUganisha: chombo cha miunganiko yote ya thamani (nambari ya elementi 0 .. 1).

11.6.1.3.1.1.1.1.1. UfunguoUganishaChaguo-msingi

- UganishaKwa: thamani mpya ya kutumika (inatumiwa pale tu UganishaAina imesetiwa kuwa UganishaKwa).
- AinaRamani: sheria kwa ajili ya kuunganisha.

Thamani ziwezekanazo

- Weka: acha bila kubadilisha.
- Puuza: dondosha.
- UganishaKwa: badilisha kwenda kwenye thamani UganishaKwa.

11.6.1.3.1.1.1.1.2. ThamaniUganishaChaguo-msingi

Sawa sawa na UfunguoUganishaChaguo-msingi.

11.6.1.3.1.1.1.1.3. UfunguoUganishaHalisi

- <funguoyazamani>: <funguompya> (nambari ya elementi 0 .. n haitakiwi kujirudia).

11.6.1.3.1.1.1.1.4. UfunguoUganishaRegEx

- <ufunguozamani(RegEx)>: <ufunguompya> (nambari ya elementi 0 .. n lakini hakuna kujirudia).

11.6.1.3.1.1.1.1.5. ThamaniUganisha

- <ufunguompya>: chombo cha miunganiko ya thamani kwa hii funguo mpya (nambari ya elementi inategemeana na funguo mpya kutoka UfunguoUganishaHalisi na UfunguoUganishaRegEx).

11.6.1.3.1.1.1.1.5.1. <ufunguompya>

- ThamaniUganishaHalisi: chombo cha miungamiko yote halisi (nambari ya elementi 0 .. 1).
- ThamaniUganishaRegEx: chombo cha uunganishaji wa thamani zote za semi za kawaida (nambari ya elementi 0 .. 1).

11.6.1.3.1.1.1.1.5.1.1. ValueMapExact

- <thamaniyazamani>: <thamanimpya> (nambari ya elementi 0 .. n haitakiwi kujirudia).

11.6.1.3.1.1.1.1.5.1.2. ThamaniUganishaRegEx

- <thamanizamani(RegEx)>: <thamanimpya> (nambari ya elementi 0 .. n lakini isijrudie).

11.6.1.3.1.1.2. KuunganishaZinazotoka

Sawa na KuunganishaZinazoingia

11.6.1.3.1.1.3. Safirisha

Hiki kifungu kimejikita kwenye usafirishaji mtandao wa HTTP::SOAP wa mtoaji, usafirishaji mwingine unaweza kuwa na mipangilio tofauti au zaidi.

- Config: chombo cha mipangilio yote maalumu ya usanidi wa usafirishaji wa mtandao.
- Aina: mazingira ya nyuma ya mtoaji wa usafirishaji wa mtandao.

11.6.1.3.1.1.3.1. Usanidi

- KikomoUrefu: kikomo cha urefu wa kusomwa katika baiti kwenye ujumbe wa SOAP kwa OTRS.
- JinaNafasi: URI ambayo inatoa maudhui kwa operesheni zote zilizo kwenye huduma hii ya tovuti.

11.6.1.4. Muombaji

- Mchochezi: chombo cha mipangilio ya kila mchochezi.
- Usafirishaji: chombo cha mipangilio ya muombaji wa usafiri wa mtandao.

11.6.1.4.1. Mchochezi

- <Mchochezijina>: Jina la kipekee la mchochezi, chombo cha mipangilio yake ya mchochezi (nambari ya elementi 0..n, haitakiwi kujirudia).

11.6.1.4.1.1. <Mchochezijina>

Hiki kifungu kinatokana na wachochezi wa aina "Jaribio::Jaribio" wachochezi wengine wanaweza kuwa na mipangilio tofauti.

- Description: a short text that describes the invoker.

- Matukio: chombo cha mipangilio ya vichochezi vya matukio visivyo na majina.
- KuunganishaZinazolingia: chombo cha kuunganisha mipangilio ya majibu ya data zinazolingia.
- KuunganishaZinazotoka: chombo cha kuunganisha mipangilio ya data za maombi yanayotoka.
- Aina: mazingira ya nyuma ya mchochezi, katika Mdhibili::Umbizo la mchochezi.

11.6.1.4.1.1.1. Matukio

- *List Element*: (cardinality 0 .. n).
 - Asynchronous: to set if the invoker execution will be delegated to the OTRS Daemon.

Thamani ziwezekanazo

- 0: not handled by the OTRS Daemon.
- 1: handled by the OTRS Daemon.
- Tukio: jina la kichochezi cha tukio.

Thamani Ziwezekanazo (kwa matukio ya tiketi)

- TengenezaTiketi
- FutaTiketi
- SasishaKichwaTiketi
- TiketiFunguaMudaWaMwishoSasisha
- SasishaFoleniTiketi
- SasishaAinaTiketi
- SasishaHudumaTiketi
- SasishaSLATiketi
- SasishaMtejaTiketi
- SasishaNakalaHuruTiketi
- SasishaMudaHuruTiketi
- SasishaMudaKusubiriTiketi
- SasishaFungaTiketi
- TiketiNyarakaBenderaSasisha
- SasishaHaliTiketi
- SasishaMmilikiTiketi
- TiketiJukumuSasisha
- TiketiKipaumbeleSasisha
- OngezaHistoria

- FutaHistoria
- TiketiHesabuMuda
- MuunganikoTiketi
- Tiketijiunge
- Tiketijiondoe
- TiketiBenderaSeti
- TiketiBenderaFuta
- TiketiMtumwaKiungoOngeza
- TiketiMtumwaKiungoFuta
- TiketiMkuuKiungoFuta

Thamani Ziwezekanazo (kwa matukio ya makala)

- TengenezaMakala
- SasishaNakalaHuruMakala
- SasishaMakala
- TumaMakala
- MakalaDunda
- MakalaWakalaTaarifa
- MakalaMtejaTaarifa
- MakalaOtomatikiMajibu
- MakalaBenderaSeti
- MakalaBenderaFuta
- MakalaWakalaTaarifa
- MakalaMtejaTaarifa

11.6.1.4.1.1.2. KuunganishaZinazoiingia

Sawa na Operesheni KuunganishaZinazoiingia.

11.6.1.4.1.1.3. KuunganishaZinazotoka

Sawa na Operesheni KuunganishaZinazoiingia.

11.6.1.4.1.1.4. Safirisha

Hiki kifungu kimejikita kwenye usafirishaji mtandao wa HTTP::SOAP wa muombaji, usafirishaji mwingine unawezakuwa na mipangilio tofauti au zaidi.

- Config: chombo cha mipangilio yote maalumu ya usanidi wa usafirishaji wa mtandao.
- Aina: mazingira ya nyuma ya muombaji wa usafirishaji wa mtandao.

11.6.1.4.1.1.4.1. Usanidi

- Uthibitisho: chombo cha mipangilio ya uthibitisho
- Encoding: the SOAP Message request encoding.
- Endpoint: the URI of the Remote Server web service to accept OTRS requests.
- JinaNafasi: URI inayowapa maudhui wachochezi wote walio katika huduma hii ya wavuti.
- SOAPAction: kutuma kichwa cha SOAPAction kilicho tupu au kilichojazwa katika ujumbe wa SOAP (ndani ya "<JinaNafasi> <Kigawanyo> <Kitendo>" umbizo).

Thamani ziwezekanazo

- Yes: to send a filled SOAPAction header.
- Hapana: kutuma kichwa cha SOAPAction tupu.
- SOAPActionSeparator: kuseti <Kigawanyo> cha kichwa cha SOAPAction iliyojazwa.

Thamani ziwezekanazo

- '/': inatumika kwa na huduma za tovuti za .net.
- '#': inatumika na huduma zote za tovuti zilizobaki.

11.6.1.4.1.1.4.1.1. Uthibitisho

- Mtumiaji: jina la mtumiaji lenye haki ambalo lina ufikivu kwa huduma ya mbali ya tovuti.
- Nywila: nywila ya mtumiaji mwenye haki katika nakala wazi.
- Aina: aina ya uthibitisho.

11.7. Viunganishi

Kiunganisho ni seti ya vitendo ambavyo aidha vinaitwa Operesheni kama OTRS inasimama kama mtoaji wa huduma ya wavuti au Wachochezi kama OTRS itasimama kama muombaji huduma ya wavuti. Pia inaweza kujumuisha Miunganiko au Usafirishaji.

Kiunganisho kimoja kinaweza kuwa na Operesheni tu, Wachochezi tu au zote. Kiunganisho kinaweza kutumia sehemu za viunganisho vingine kama Miunganiko au Usafirishaji kama siyo maalumu kwa kiunganisho kinachojaribu kuzitekeleza.

Kwa maneno mengine kiunganisho hakijajikita kwa tabaka moja la kidhibiti lakini inaweza kutanuliwa kwenye Muunganiko wa Data au matabaka ya Usafirishaji wa Mtandao kama itahitajika.

Kutokana na usanifu wa moduli wa Kiolesura cha Ujumla Kiunganishi kinaweza kuonekana kama programu-jalizi; hii inamaanisha kwa kuongeza Viunganishi uwezo wa kiolesura cha ujumla kinaweza kupanuliwa kwa kutumia: vifaa vya nyongeza vya OTRS, moduli Zilizogeuzwa kukufaa za OTRS, moduli za mshiriki wa 3, na mengineyo.

11.7.1. Kifungu cha Viunganishi

Included with this version of OTRS the following connectors are ready to be used:

- Kipindi
- Tiketi

11.7.1.1. Kiunganishi cha Kipindi

Kiungo hiki kinaweza kutengeneza Kitambulisho halali cha Kipindi ambacho kinaweza kutumika katika operesheni nyingine yoyote.

Inatoa:

- Operesheni:
 - TengenezaKipindi:

11.7.1.1.1. Operesheni

11.7.1.1.1.1. TengenezaKipindi:

Creates a new valid SessionID to be used in other operations from other connectors like TicketCreate.

Note

Kutumia Kitambulisho cha Kipindi katika operesheni nyingine kutoka kwenye viunganishi vingine ni muhimu kwamba operesheni ifanye uthibitisho kwa kutumia Kitambulisho cha Kipindi. Vifurushi vingine vya operesheni vinaweza kukubali Kitambulisho cha Kipindi halali kama njia ya uthibitisho.

Sifa ziwezekanazo:

```
<SessionCreate>
  <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <UserLogin?</UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?</CustomerUserLogin>
  <!--Optional:-->
  <Password?</Password>
</SessionCreate>
```

11.7.1.2. Kiunganishi cha Tiketi

This connector supplies the basic functionality to interact with tickets.

Inatoa:

- Operesheni:
 - TengenezaTiketi
 - SasishaTiketi
 - PataTiketi
 - TafutaTiketi

11.7.1.2.1. Operesheni

11.7.1.2.1.1. TengenezaTiketi

Inatoa kiolesura cha kutengeneza tiketi katika OTRS. Tiketi lazima iwe na Makala na inaweza kuwa na viambatanishi mbali mbali, Sehemu Zinazobadilika zote zilizofanuliwa zinaweza pia kusetiwa katika operesheni ya TiketiTengeneza.

Sifa ziwezekanazo:

```

<TicketCreate>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin?</UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?</CustomerUserLogin>
  <!--Optional:-->
  <SessionID?</SessionID>
  <!--Optional:-->
  <Password?</Password>
  <Ticket>
    <Title?</Title>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <QueueID?</QueueID>
    <!--Optional:-->
    <Queue?</Queue>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <TypeID?</TypeID>
    <!--Optional:-->
    <Type?</Type>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <ServiceID?</ServiceID>
    <!--Optional:-->
    <Service?</Service>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <SLAID?</SLAID>
    <!--Optional:-->
    <SLA?</SLA>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <StateID?</StateID>
    <!--Optional:-->
    <State?</State>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <PriorityID?</PriorityID>
    <!--Optional:-->
    <Priority?</Priority>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <OwnerID?</OwnerID>
    <!--Optional:-->
    <Owner?</Owner>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <ResponsibleID?</ResponsibleID>
    <!--Optional:-->
    <Responsible?</Responsible>
    <CustomerUser?</CustomerUser>
    <!--Optional:-->
    <CustomerID?</CustomerID>
    <!--Optional:-->
    <PendingTime>
      <!--You have a CHOICE of the next and the other 5 items at this level-->
      <Diff?</Diff>
      <Year?</Year>
      <Month?</Month>
      <Day?</Day>
      <Hour?</Hour>
      <Minute?</Minute>
    </PendingTime>
  </Ticket>
</Article>
  <!--You have a CHOICE of the next 2 items at this level-->

```



```

<!--Optional:-->
<ArticleTypeID?>/ArticleTypeID>
<!--Optional:-->
<ArticleType?>/ArticleType>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<SenderTypeID?>/SenderTypeID>
<!--Optional:-->
<SenderType?>/SenderType>
<!--Optional:-->
<From?>/From>
<Subject?>/Subject>
<Body?>/Body>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<ContentType?>/ContentType>
<Charset?>/Charset>
<MimeType?>/MimeType>
<!--Optional:-->
<HistoryType?>/HistoryType>
<!--Optional:-->
<HistoryComment?>/HistoryComment>
<!--Optional:-->
<AutoResponseType?>/AutoResponseType>
<!--Optional:-->
<TimeUnit?>/TimeUnit>
<!--Optional:-->
<NoAgentNotify?>/NoAgentNotify>
<!--Zero or more repetitions:-->
<ForceNotificationToUserID?>/ForceNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeNotificationToUserID?>/ExcludeNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeMuteNotificationToUserID?>/ExcludeMuteNotificationToUserID>
</Article>
<!--Zero or more repetitions:-->
<DynamicField>
  <Name?>/Name>
  <!--1 or more repetitions:-->
  <Value?>/Value>
</DynamicField>
<!--Zero or more repetitions:-->
<Attachment>
  <Content>cid:61886944659</Content>
  <ContentType?>/ContentType>
  <Filename?>/Filename>
</Attachment>
</TicketCreate>

```

11.7.1.2.1.2. SasishaTiketi

Operesheni ya SasishaTiketi inaongeza uwezo wa kubadili sifa kutoka kwenye tiketi iliyopo au kuongeza makala mpya, ikijumuisha na viambatanisho na sehemu zinazobadilika zote zilizofafanuliwa kwa ajili ya tiketi na makala mpya.

Note

Sio lazima kutengeneza makala mpya kubadilisha sifa ya tiketi.

Sifa ziwezekanazo:

```

<TicketUpdate>
<!--You have a MANDATORY CHOICE of the next 3 items at this level-->
<!--Optional:-->
<UserLogin?>/UserLogin>
<!--Optional:-->
<CustomerUserLogin?>/CustomerUserLogin>

```

```

<!--Optional:-->
<SessionID?></SessionID>
<!--Optional:-->
<Password?></Password>
<!--You have a CHOICE of the next 2 items at this level-->
<TicketID?></TicketID>
<TicketNumber?></TicketNumber>
<!--Optional:-->
<Ticket>
  <!--Optional:-->
  <Title?></Title>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <QueueID?></QueueID>
  <!--Optional:-->
  <Queue?></Queue>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <TypeID?></TypeID>
  <!--Optional:-->
  <Type?></Type>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ServiceID?></ServiceID>
  <!--Optional:-->
  <Service?></Service>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <SLAID?></SLAID>
  <!--Optional:-->
  <SLA?></SLA>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <StateID?></StateID>
  <!--Optional:-->
  <State?></State>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <PriorityID?></PriorityID>
  <!--Optional:-->
  <Priority?></Priority>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <OwnerID?></OwnerID>
  <!--Optional:-->
  <Owner?></Owner>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ResponsibleID?></ResponsibleID>
  <!--Optional:-->
  <Responsible?></Responsible>
  <!--Optional:-->
  <CustomerUser?></CustomerUser>
  <!--Optional:-->
  <CustomerID?></CustomerID>
  <!--Optional:-->
  <PendingTime>
    <!--You have a CHOICE of the next and the other 5 items at this level-->
    <Diff?></Diff>
    <Year?></Year>
    <Month?></Month>
    <Day?></Day>
    <Hour?></Hour>
    <Minute?></Minute>
  </PendingTime>
</Ticket>
<!--Optional:-->
<Article>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ArticleTypeID?></ArticleTypeID>
  <!--Optional:-->

```

```

<ArticleType?</ArticleType>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<SenderTypeID?</SenderTypeID>
<!--Optional:-->
<SenderType?</SenderType>
<!--Optional:-->
<From?</From>
<Subject?</Subject>
<Body?</Body>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<ContentType?</ContentType>
<Charset?</Charset>
<MimeType?</MimeType>
<!--Optional:-->
<HistoryType?</HistoryType>
<!--Optional:-->
<HistoryComment?</HistoryComment>
<!--Optional:-->
<AutoResponseType?</AutoResponseType>
<!--Optional:-->
<TimeUnit?</TimeUnit>
<!--Optional:-->
<NoAgentNotify?</NoAgentNotify>
<!--Zero or more repetitions:-->
<ForceNotificationToUserID?</ForceNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeNotificationToUserID?</ExcludeNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeMuteNotificationToUserID?</ExcludeMuteNotificationToUserID>
</Article>
<!--Zero or more repetitions:-->
<DynamicField>
  <Name?</Name>
  <!--1 or more repetitions:-->
  <Value?</Value>
</DynamicField>
<!--Zero or more repetitions:-->
<Attachment>
  <Content>cid:166861569966</Content>
  <ContentType?</ContentType>
  <Filename?</Filename>
</Attachment>
</TicketUpdate>

```

11.7.1.2.1.3. PataTiketi

Hii operesheni inatumika kupata sifa zote za tiketi ikijumuisha sehemu zinazobadilika, makala zote na viambatanisho vyote ambavyo ni vya tiketi.

Sifa ziwezekanazo:

```

<TicketGet>
<!--You have a MANDATORY CHOICE of the next 3 items at this level-->
<!--Optional:-->
<UserLogin?</UserLogin>
<!--Optional:-->
<CustomerUserLogin?</CustomerUserLogin>
<!--Optional:-->
<SessionID?</SessionID>
<!--Optional:-->
<Password?</Password>
<!--1 or more repetitions:-->
<TicketID?</TicketID>
<!--Optional:-->
<DynamicFields?</DynamicFields>
<!--Optional:-->

```

```

<Extended>?</Extended>
<!--Optional:-->
<AllArticles>?</AllArticles>
<!--Optional:-->
<ArticleSenderType>?</ArticleSenderType>
<!--Optional:-->
<ArticleOrder>?</ArticleOrder>
<!--Optional:-->
<ArticleLimit>?</ArticleLimit>
<!--Optional:-->
<Attachments>?</Attachments>
</TicketGet>

```

11.7.1.2.1.4. Tafuta Tiketi

Operesheni TiketiTafuta inarudisha orodha ya Vitambulisho vya Tiketi ambazo zinafanana na kigezo kilichofafanuliwa.

Sifa ziwezekanazo:

```

<TicketSearch>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin>?</UserLogin>
  <!--Optional:-->
  <CustomerUserLogin>?</CustomerUserLogin>
  <!--Optional:-->
  <SessionID>?</SessionID>
  <!--Optional:-->
  <Password>?</Password>
  <!--Optional:-->
  <Limit>?</Limit>
  <!--Zero or more repetitions:-->
  <TicketNumber>?</TicketNumber>
  <!--Zero or more repetitions:-->
  <Title>?</Title>
  <!--Zero or more repetitions:-->
  <Queues>?</Queues>
  <!--Zero or more repetitions:-->
  <QueueIDs>?</QueueIDs>
  <!--Optional:-->
  <UseSubQueues>?</UseSubQueues>
  <!--Zero or more repetitions:-->
  <Types>?</Types>
  <!--Zero or more repetitions:-->
  <TypeID>?</TypeID>
  <!--Zero or more repetitions:-->
  <States>?</States>
  <!--Zero or more repetitions:-->
  <StateIDs>?</StateIDs>
  <!--Zero or more repetitions:-->
  <StateType>?</StateType>
  <!--Zero or more repetitions:-->
  <StateTypeID>?</StateTypeID>
  <!--Zero or more repetitions:-->
  <Priorities>?</Priorities>
  <!--Zero or more repetitions:-->
  <PriorityIDs>?</PriorityIDs>
  <!--Zero or more repetitions:-->
  <Services>?</Services>
  <!--Zero or more repetitions:-->
  <ServiceIDs>?</ServiceIDs>
  <!--Zero or more repetitions:-->
  <SLAs>?</SLAs>
  <!--Zero or more repetitions:-->
  <SLAIDs>?</SLAIDs>
  <!--Zero or more repetitions:-->
  <Locks>?</Locks>

```

```

<!--Zero or more repetitions:-->
<LockIDs>?</LockIDs>
<!--Zero or more repetitions:-->
<OwnerIDs>?</OwnerIDs>
<!--Zero or more repetitions:-->
<ResponsibleIDs>?</ResponsibleIDs>
<!--Zero or more repetitions:-->
<WatchUserIDs>?</WatchUserIDs>
<!--Zero or more repetitions:-->
<CustomerID>?</CustomerID>
<!--Zero or more repetitions:-->
<CustomerUserLogin>?</CustomerUserLogin>
<!--Zero or more repetitions:-->
<CreatedUserIDs>?</CreatedUserIDs>
<!--Zero or more repetitions:-->
<CreatedTypes>?</CreatedTypes>
<!--Zero or more repetitions:-->
<CreatedTypeID>?</CreatedTypeID>
<!--Zero or more repetitions:-->
<CreatedPriorities>?</CreatedPriorities>
<!--Zero or more repetitions:-->
<CreatedPriorityIDs>?</CreatedPriorityIDs>
<!--Zero or more repetitions:-->
<CreatedStates>?</CreatedStates>
<!--Zero or more repetitions:-->
<CreatedStateIDs>?</CreatedStateIDs>
<!--Zero or more repetitions:-->
<CreatedQueues>?</CreatedQueues>
<!--Zero or more repetitions:-->
<CreatedQueueIDs>?</CreatedQueueIDs>
<!--Zero or more repetitions:-->
<DynamicFields>
  <!--You have a MANDATORY CHOICE of the next 6 items at this level-->
  <!--Optional:-->
  <Equals>?</Equals>
  <!--Optional:-->
  <Like>?</Like>
  <!--Optional:-->
  <GreaterThan>?</GreaterThan>
  <!--Optional:-->
  <GreaterThanEquals>?</GreaterThanEquals>
  <!--Optional:-->
  <SmallerThan>?</SmallerThan>
  <!--Optional:-->
  <SmallerThanEquals>?</SmallerThanEquals>
</DynamicFields>
<!--Optional:-->
<Ticketflag>
  <!--Optional:-->
  <Seen>?</Seen>
</Ticketflag>
<!--Optional:-->
<From>?</From>
<!--Optional:-->
<To>?</To>
<!--Optional:-->
<Cc>?</Cc>
<!--Optional:-->
<Subject>?</Subject>
<!--Optional:-->
<Body>?</Body>
<!--Optional:-->
<FullTextIndex>?</FullTextIndex>
<!--Optional:-->
<ContentSearch>?</ContentSearch>
<!--Optional:-->
<ConditionInline>?</ConditionInline>
<!--Optional:-->
<ArticleCreateTimeOlderMinutes>?</ArticleCreateTimeOlderMinutes>
<!--Optional:-->
<ArticleCreateTimeNewerMinutes>?</ArticleCreateTimeNewerMinutes>
<!--Optional:-->

```

```

<ArticleCreateTimeNewerDate?></ArticleCreateTimeNewerDate>
<!--Optional:-->
<ArticleCreateTimeOlderDate?></ArticleCreateTimeOlderDate>
<!--Optional:-->
<TicketCreateTimeOlderMinutes?></TicketCreateTimeOlderMinutes>
<!--Optional:-->
<ATicketCreateTimeNewerMinutes?></ATicketCreateTimeNewerMinutes>
<!--Optional:-->
<TicketCreateTimeNewerDate?></TicketCreateTimeNewerDate>
<!--Optional:-->
<TicketCreateTimeOlderDate?></TicketCreateTimeOlderDate>
<!--Optional:-->
<TicketLastChangeTimeOlderMinutes?></TicketLastChangeTimeOlderMinutes>
<!--Optional:-->
<TicketLastChangeTimeNewerMinutes?></TicketLastChangeTimeNewerMinutes>
<!--Optional:-->
<TicketLastChangeTimeNewerDate?></TicketLastChangeTimeNewerDate>
<!--Optional:-->
<TicketLastChangeTimeOlderDate?></TicketLastChangeTimeOlderDate>
<!--Optional:-->
<TicketChangeTimeOlderMinutes?></TicketChangeTimeOlderMinutes>
<!--Optional:-->
<TicketChangeTimeNewerMinutes?></TicketChangeTimeNewerMinutes>
<!--Optional:-->
<TicketChangeTimeNewerDate?></TicketChangeTimeNewerDate>
<!--Optional:-->
<TicketChangeTimeOlderDate?></TicketChangeTimeOlderDate>
<!--Optional:-->
<TicketCloseTimeOlderMinutes?></TicketCloseTimeOlderMinutes>
<!--Optional:-->
<TicketCloseTimeNewerMinutes?></TicketCloseTimeNewerMinutes>
<!--Optional:-->
<TicketCloseTimeNewerDate?></TicketCloseTimeNewerDate>
<!--Optional:-->
<TicketCloseTimeOlderDate?></TicketCloseTimeOlderDate>
<!--Optional:-->
<TicketPendingTimeOlderMinutes?></TicketPendingTimeOlderMinutes>
<!--Optional:-->
<TicketPendingTimeNewerMinutes?></TicketPendingTimeNewerMinutes>
<!--Optional:-->
<TicketPendingTimeNewerDate?></TicketPendingTimeNewerDate>
<!--Optional:-->
<TicketPendingTimeOlderDate?></TicketPendingTimeOlderDate>
<!--Optional:-->
<TicketEscalationTimeOlderMinutes?></TicketEscalationTimeOlderMinutes>
<!--Optional:-->
<TTicketEscalationTimeNewerMinutes?></TTicketEscalationTimeNewerMinutes>
<!--Optional:-->
<TicketEscalationTimeNewerDate?></TicketEscalationTimeNewerDate>
<!--Optional:-->
<TicketEscalationTimeOlderDate?></TicketEscalationTimeOlderDate>
<!--Optional:-->
<ArchiveFlags?></ArchiveFlags>
<!--Zero or more repetitions:-->
<OrderBy?></OrderBy>
<!--Zero or more repetitions:-->
<SortBy?></SortBy>
<!--Zero or more repetitions:-->
<CustomerUserID?></CustomerUserID>
</TicketSearch>

```

11.7.2. Mifano:

11.7.2.1. Usanidi wa Huduma za Tovuti

The following is a basic but complete web service configuration file in YAML format to use all the Ticket Connector operations with the SOAP network transport. In order to use it in OTRS you need to copy the content, save it into a file and call it

GenericTicketConnectorSOAP.yml, and import it into OTRS in the Web Services screen in the Admin panel by clicking in the "Add web service" button from the overview screen and then clicking in the "Import web service" button in the add screen.

```
---
Debugger:
  DebugThreshold: debug
  TestMode: 0
Description: Ticket Connector SOAP Sample
FrameworkVersion: 3.4.x git
Provider:
  Operation:
    SessionCreate:
      Description: Creates a Session
      MappingInbound: {}
      MappingOutbound: {}
      Type: Session::SessionCreate
    TicketCreate:
      Description: Creates a Ticket
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketCreate
    TicketUpdate:
      Description: Updates a Ticket
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketUpdate
    TicketGet:
      Description: Retrieves Ticket data
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketGet
    TicketSearch:
      Description: Search for Tickets
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketSearch
  Transport:
    Config:
      MaxLength: 1000000000
      Namespace: http://www.otrs.org/TicketConnector/
      Type: HTTP::SOAP
RemoteSystem: ''
Requester:
  Transport:
    Type: ''
```

Similar example can be done for the REST network transport, REST web services uses HTTP operations such as "POST", "GET", "PUT", "PATCH" etc. This operations in conjunction with a URI path called resource defines a OTRS Generic Interface Operation or Invoker (depending on the communication way).

The following example uses /Session resource for SessionCreate, /Ticket resource for TicketSearch and TicketCreate and resource /Ticket/{TicketID} for TicketGet and TicketUpdate (Where {TicketID} is the actual TicketID value of a ticket e.g. /Ticket/123). In order to use it in OTRS you need to copy the content, save it into a file and call it GenericTicketConnectorREST.yml, and import it into OTRS in the Web Services screen in the Admin panel by clicking in the "Add web service" button from the overview screen and then clicking in the "Import web service" button in the add screen.

```
---
Debugger:
  DebugThreshold: debug
```

```

TestMode: '0'
Description: Ticket Connector REST Sample
FrameworkVersion: 3.4.x git
Provider:
  Operation:
    SessionCreate:
      Description: Creates a Session
      MappingInbound: {}
      MappingOutbound: {}
      Type: Session::SessionCreate
    TicketCreate:
      Description: Creates a Ticket
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketCreate
    TicketGet:
      Description: Retrieves Ticket data
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketGet
    TicketSearch:
      Description: Search for Tickets
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketSearch
    TicketUpdate:
      Description: Updates a Ticket
      MappingInbound: {}
      MappingOutbound: {}
      Type: Ticket::TicketUpdate
  Transport:
    Config:
      KeepAlive: ''
      MaxLength: '100000000'
      RouteOperationMapping:
        SessionCreate:
          RequestMethod:
            - POST
          Route: /Session
        TicketCreate:
          RequestMethod:
            - POST
          Route: /Ticket
        TicketGet:
          RequestMethod:
            - GET
          Route: /Ticket/:TicketID
        TicketSearch:
          RequestMethod:
            - GET
          Route: /Ticket
        TicketUpdate:
          RequestMethod:
            - PATCH
          Route: /Ticket/:TicketID
      Type: HTTP::REST
    RemoteSystem: ''
    Requester:
      Transport:
        Type: ''

```

11.7.2.2. Muombaji wa Perl SOAP

The following code is a Perl script that can connect to OTRS via the generic interface. In order to perform the operations provided by the Ticket Connector, it uses two Perl CPAN modules SOAP::Lite and Data::Dumper. Please make sure that your environment is capable to use these modules before you try to run the script.


```
#!/usr/bin/perl -w
# --
# otrs.SOAPRequest.pl - sample to send a SOAP request to OTRS Generic Interface Ticket
Connector
# Copyright (C) 2001-2016 OTRS AG, http://otrs.com/
# --
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU AFFERO General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU Affero General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
# or see http://www.gnu.org/licenses/agpl.txt.
# --

use strict;
use warnings;

# use ../ as lib location
use File::Basename;
use FindBin qw($RealBin);
use lib dirname($RealBin);

use SOAP::Lite;
use Data::Dumper;

# ---
# Variables to be defined.

# this is the URL for the web service
# the format is
# <HTTP_TYPE>:://<OTRS_FQDN>/nph-genericinterface.pl/Webservice/<WEB_SERVICE_NAME>
# or
# <HTTP_TYPE>:://<OTRS_FQDN>/nph-genericinterface.pl/WebserviceID/<WEB_SERVICE_ID>
my $URL = 'http://localhost/otrs/nph-genericinterface.pl/Webservice/GenericTicketConnector';

# this name space should match the specified name space in the SOAP transport for the web
service.
my $NameSpace = 'http://www.otrs.org/TicketConnector/';

# this is operation to execute, it could be TicketCreate, TicketUpdate, TicketGet,
TicketSearch
# or SessionCreate. and they must to be defined in the web service.
my $Operation = 'TicketCreate';

# this variable is used to store all the parameters to be included on a request in XML
format. Each
# operation has a determined set of mandatory and non mandatory parameters to work
correctly. Please
# check the OTRS Admin Manual in order to get a complete list of parameters.
my $XMLData = '
<UserLogin>some user login</UserLogin>
<Password>some password</Password>
<Ticket>
  <Title>some title</Title>
  <CustomerUser>some customer user login</CustomerUser>
  <Queue>some queue</Queue>
  <State>some state</State>
  <Priority>some priority</Priority>
</Ticket>
<Article>
  <Subject>some subject</Subject>
  <Body>some body</Body>
  <ContentType>text/plain; charset=utf8</ContentType>
```

```

</Article>
';

# ---

# create a SOAP::Lite data structure from the provided XML data structure.
my $SOAPData = SOAP::Data
    ->type( 'xml' => $XMLData );

my $SOAPObject = SOAP::Lite
    ->uri($NameSpace)
    ->proxy($URL)
    ->$operation($SOAPData);

# check for a fault in the soap code.
if ( $SOAPObject->fault ) {
    print $SOAPObject->faultcode, " ", $SOAPObject->faultstring, "\n";
}

# otherwise print the results.
else {

    # get the XML response part from the SOAP message.
    my $XMLResponse = $SOAPObject->context()->transport()->proxy()->http_response()-
>content();

    # deserialize response (convert it into a perl structure).
    my $Deserialized = eval {
        SOAP::Deserializer->deserialize($XMLResponse);
    };

    # remove all the headers and other not needed parts of the SOAP message.
    my $Body = $Deserialized->body();

    # just output relevant data and no the operation name key (like TicketCreateResponse).
    for my $ResponseKey ( keys %{$Body} ) {
        print Dumper( $Body->{$ResponseKey} );
    }
}

```

11.7.2.3. Perl REST Requester

The following code is a Perl script that can connect to OTRS via the generic interface. In order to perform the operations provided by the Ticket Connector, it uses three Perl CPAN modules JSON, REST::Client and Data::Dumper. Please make sure that your environment is capable to use these modules before you try to run the script.

```

#!/usr/bin/perl
# --
# otrs.RESTRequest.pl - sample to send a REST request to OTRS Generic Interface Ticket
Connector
# Copyright (C) 2001-2016 OTRS AG, http://otrs.com/
# --
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU AFFERO General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU Affero General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
# or see http://www.gnu.org/licenses/agpl.txt.

```

```

# --

use strict;
use warnings;

## nofilter(TidyAll::Plugin::OTRS::Perl::Dumper)

# use ../ as lib location
use File::Basename;
use FindBin qw($RealBin);
use lib dirname($RealBin);

use JSON;
use REST::Client;

# ---
# Variables to be defined

# This is the HOST for the web service the format is:
# <HTTP_TYPE>:://<OTRS_FQDN>/nph-genericinterface.pl
my $Host = 'http://localhost/otrs/nph-genericinterface.pl';

my $RestClient = REST::Client->new(
    {
        host => $Host,
    }
);

# This is the Controller and Request the format is:
# /Webservice/<WEB_SERVICE_NAME>/<RESOURCE>/<REQUEST_VALUE>
# or
# /WebserviceID/<WEB_SERVICE_ID>/<RESOURCE>/<REQUEST_VALUE>
# This example will retrieve the Ticket with the TicketID = 1 (<REQUEST_VALUE>)
my $ControllerAndRequest = '/Webservice/GenericTicketConnectorREST/Ticket/1';

my $Params = {
    UserLogin      => "some user login",          # to be filled with valid agent login
    Password       => "some user password",      # to be filled with valid agent password
    DynamicFields  => 1,                          # optional, if set to 1,
                                                        # ticket dynamic fields included in response
    AllArticles    => 1,                          # optional, if set to 1,
                                                        # all ticket articles are included in response
                                                        # more options to be found in
    # /Kernel/GenericInterface/Operation/Ticket/TicketGet.pm's
    # Run() subroutine documentation.
};

my @RequestParam;

# As sample web service configuration for TicketGet uses HTTP method GET all other
# parameters needs
# to be sent as URI query parameters

# ----
# For GET method
my $QueryParams = $RestClient->buildQuery( %{ $Params } );

$ControllerAndRequest .= $QueryParams;

# The @RequestParam array on position 0 holds controller and request
@RequestParam = ($ControllerAndRequest);

$RestClient->GET(@RequestParam);
# ----

# # ----
# # For POST method
# my $JSONParams = encode_json $Params;

# # The @RequestParam array on position 0 holds controller and request
# # on position 1 it holds the JSON data string that gets posted
# @RequestParam = (

```

```
# $ControllerAndRequest,
# $JSONParams
# );

# $RestClient->POST(@RequestParam);
# # ----

# If the host isn't reachable, wrong configured or couldn't serve the requested page:
my $ResponseCode = $RestClient->responseCode();
if ( $ResponseCode ne '200' ) {
    print "Request failed, response code was: $ResponseCode\n";
    exit;
}

# If the request was answered correctly, we receive a JSON string here.
my $ResponseContent = $RestClient->responseContent();

my $Data = decode_json $ResponseContent;

# Just to print out the returned Data structure:
use Data::Dumper;
print "Response was:\n";
print Dumper($Data);
```

11.7.2.4. cURL Examples for REST Requests

Given the above example on a REST configuration for Generic Ticket Connector we have that:

For Ticket Create: use POST method on /Ticket path.

For Ticket Search: use GET method on /Ticket path.

For Ticket Update: use PATCH method on /Ticket/{TicketID} path (where {TicketID} is a template represented by :TicketID in the transport configuration)

For Ticket Get: use GET method on /Ticket/{TicketID} path (where {TicketID} is a template represented by :TicketID in the transport configuration)

11.7.2.4.1. Create a New Ticket

cURL Command:

```
shell> curl "http://localhost/otrs/nph-genericinterface.pl/Webservice/
GenericTicketConnectorREST/Ticket?UserLogin=agent&Password=123" -H "Content-Type:
application/json" -d "{\"Ticket\":{\"Title\":\"REST Create Test\", \"Type\": \"Unclassified
\", \"Queue\": \"Raw\", \"State\": \"open\", \"Priority\": \"3 normal\", \"CustomerUser\":
\"customer\"}, \"Article\":{\"Subject\": \"Rest Create Test\", \"Body\": \"This is only a test
\", \"ContentType\": \"text/plain; charset=utf8\"}}" -X POST
```

Response:

```
{
  "ArticleID":5484,
  "TicketNumber":"1001936",
  "TicketID":"1686"
}
```

11.7.2.4.2. Get Ticket Details

cURL Command:

```
curl "http://localhost/otrs/nph-genericinterface.pl/Webservice/GenericTicketConnectorREST/Ticket/1686?UserLogin=agent&Password=123"
```

Response:

```
{
  "Ticket": [
    {
      "Age": 777,
      "PriorityID": 3,
      "ServiceID": "",
      "Type": "Unclassified",
      "Responsible": "root@localhost",
      "StateID": 4,
      "ResponsibleID": 1,
      "ChangeBy": 2,
      "EscalationTime": 0,
      "Changed": "2014-06-30 19:08:14",
      "OwnerID": 2,
      "RealTillTimeNotUsed": 0,
      "GroupID": 1,
      "Owner": "agent",
      "CustomerID": "OTRS",
      "TypeID": 1,
      "Created": "2014-06-30 19:08:12",
      "Priority": "3 normal",
      "UntilTime": 0,
      "EscalationUpdateTime": 0,
      "QueueID": 2,
      "Queue": "Raw",
      "State": "open",
      "Title": "REST Create Test",
      "CreateBy": 2,
      "TicketID": 1686,
      "StateType": "open",
      "EscalationResponseTime": 0,
      "UnlockTimeout": 0,
      "EscalationSolutionTime": 0,
      "LockID": 1,
      "TicketNumber": "1001936",
      "ArchiveFlag": "n",
      "Lock": "unlock",
      "CreateTimeUnix": 1404173292,
      "SLAID": "",
      "CustomerUserID": "customer"
    }
  ]
}
```

11.7.2.4.3. Update Ticket

cURL Command:

```
curl "http://localhost/otrs/nph-genericinterface.pl/Webservice/GenericTicketConnectorREST/Ticket/1686?UserLogin=agent&Password=123" -H "Content-Type: application/json" -d '{"Ticket \":{"Queues\":"Postmaster\"}}"' -X PATCH
```

Response:

```
{
```

```
"TicketNumber": "1001936",  
"TicketID": "1686"  
}
```

11.7.2.4.4. Search for Tickets

cURL Command:

```
curl "http://localhost/otrs/nph-genericinterface.pl/Webservice/GenericTicketConnectorREST/  
Ticket?UserLogin=agent&Password=123&Queue=Postmaster"
```

Response:

```
{  
  "TicketID": [  
    "1686",  
    "102",  
    "100",  
    "1"  
  ]  
}
```

12. The OTRS Daemon

The OTRS Daemon is an independent set of system processes that plan and execute tasks in background, either on a recurrent basis or triggered by events. OTRS Daemon is fundamental for the correct system operation.

In previous versions of OTRS (from 3.1 to 4) there was another process called OTRS Scheduler that does part of the work that the OTRS Daemon do in OTRS 5. This old process is replaced by the OTRS Daemon which was re-written from the ground to make it more stable, scalable and robust than its predecessor.

The OTRS Daemon is capable to handle up to 10 tasks at the same time and it can work cooperatively with other OTRS Daemons on different frontend servers in a cluster environment.

When idle OTRS Daemon consist in five processes:

- The main daemon (`bin/otrs.Daemon.pl`)

This process is in charge to start and keep running the other children daemons.

- Task worker daemon (`Kernel/System/Daemon/DaemonModules/SchedulerTaskWorker.pm`)

This daemon executes all tasks that have in a list, in a first in first out basis. It can handle simultaneous tasks by creating its own children processes and it checks the task list several times per second. The task list can be filled by task manager daemons, event handlers, and other parts of the system.

Its main mission is to handle all the tasks in the list as soon as possible.

- Future task manager daemon (`Kernel/System/Daemon/DaemonModules/SchedulerFutureTaskManager.pm`)

This daemon checks for non recurring tasks that are set to be executed in the future (e.g. when a Generic Interface invoker tries to reach a server and it can't, a task could

be set to schedule for execution in the next 5 minutes). At the correct time it sends it the task worker daemon.

- Cron task manager daemon (Kernel/System/Daemon/DaemonModules/SchedulerCronTaskManager.pm)

This daemon calculates when is the next execution time of all recurring tasks (e.g. a cache cleanup one time per week). This kind of tasks are specified in the SysConfig. At the right time for each task it sends the required information to the task worker daemon to execute them.

Note

If a task execution time definition is changed in SysConfig, it might take up to an hour for the daemon to pick up the change automatically. Alternatively the OTRS Daemon can be restarted to apply the change immediately.

- Generic Agent task manager daemon (Kernel/System/Daemon/DaemonModules/SchedulerGenericAgentTaskManager.pm)

This daemon scans for Generic Agent jobs stored in the database that have a time schedule (discarding all other Generic Agent jobs that are set to executed by events). When is time to run a Generic Agent job it sends the task information to the task worker daemon to handle the task.

Note

The number of active processes depends on the number of tasks that the OTRS Daemon is executing simultaneously in a time frame.

By default the each daemon logs all error messages on a separated file located in /opt/otrs/var/log/Daemon/*.log. These logs are kept in the system for a defined period. To change this behavior and/or to also log the non error messages, please update SysConfig settings in Daemon -> Core: :Log.

When a task could not be executed successfully for any reason, an email is sent to a predefined recipient reporting the issue. The content of the email includes the error messages and trace (if available).

The OTRS Daemon is an automated process that normally does not require human interaction. However it is possible to query its status and start or stop it if needed.

To be sure that the OTRS Daemon is running there is a Cron job that constantly checks that the process is alive. The main daemon is prepared to work even without a database connection, so is perfectly safe if the Cron task to start it is executed even before the database process in the system startup, and it is also tolerant to database disconnections.

If for any reason the OTRS Daemon needs to be stop (for example during a system maintenance), all unhandled tasks are saved, and as soon as the process is started again it continues with all pending tasks. For recurring tasks it will only execute the last instance of the task (if its due time was during the downtime).

12.1. OTRS Daemon Graphical Interface

The OTRS Daemon is not visible in the OTRS Graphical User Interface unless it stops running.

When the system detects that the OTRS Daemon is not running, a notification is presented to a defined group of users ("admin" by default).

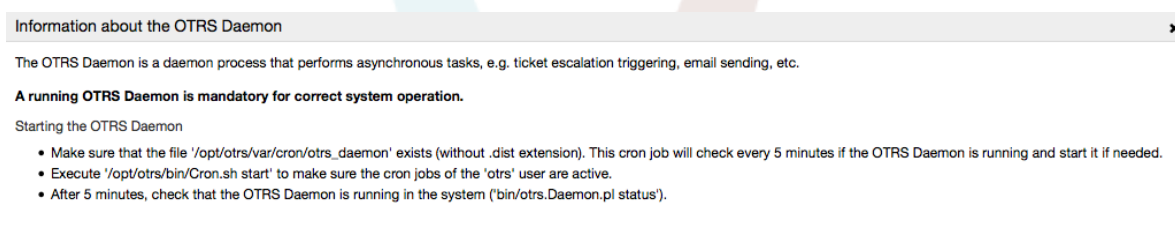
To disable the notification (not recommended), change or add the notification groups, please edit the Frontend: :NotifyModule###800-Daemon-Check setting in the SysConfig.

Figure 4.114. Daemon notification



Clicking the notification the system presents an overlay window explaining the steps to bring the OTRS Daemon up and running.

Figure 4.115. Start Daemon



12.2. OTRS Daemon Command Line Interface

The OTRS Daemon command line tools let you control the main daemon process (Start / Stop) or query its status. There are also tools to get more detailed information about the other four children daemons.

12.2.1. Main Daemon Tools

To start, stop or query daemon status bin/otrs.Daemon.pl script is used.

Example 4.30. Example to start the OTRS Daemon

```
shell> cd /opt/otrs/
shell> OTRS_HOME/bin/otrs.Daemon.pl start
```

Machaguo Yaliyopo

- **start** - to start the OTRS Daemon process.
- **stop** - to stop the OTRS Daemon process.
- **status** - to query the OTRS Daemon process status.
- **start --debug** - to start the OTRS Daemon process in debug mode.

In this mode each daemon reports different messages depending on the actions that are been executed. This mode is not recommended for production environments.

- **stop --force** - to stop the OTRS Daemon process in reducing the wait for children processes to finish.

A forced stop reduces the amount of time the main daemon waits to successful stop the other children processes from 30 seconds (normal) to 5 seconds (forced).

12.2.2. Other Daemon Tools

To list all configured child daemons that the main daemon should start and keep running use the console command: `Maint::Daemon::List`.

Example 4.31. Example to list all configured daemons

```
shell> cd /opt/otrs/  
shell> bin/otrs.Console.pl Maint::Daemon::List
```

To list detailed information of all daemons use the console command: `Maint::Daemon::Summary`.

Example 4.32. Example to a summary of all daemon tasks

```
shell> cd /opt/otrs/  
shell> bin/otrs.Console.pl Maint::Daemon::Summary
```

Chapter 5. Kugeuza kukufaa

1. Orodha Dhibiti Sikivu

1.1. Utangulizi

From OTRS 2.0 on, Access Control Lists (ACLs) can be used to control access to tickets, modules, queues, etc., or to influence actions on tickets (closing, moving, etc.) in certain situations. ACLs can be used to supplement the existing permission system of roles and groups. Using ACLs, rudimentary work-flows within the system can be mapped, based on ticket attributes.

In a general way ACLs are used to reduce the possible options for a ticket based on a defined set of rules.

ACLs can be directly entered into the Kernel/Config.pm file. However this is not any more recommended as OTRS comes now with a GUI Access Control Lists in the Admin panel that allows to save the ACLs in the Database as the first step and then deploy them into a file when they are ready.

This chapter has some ACL examples which will walk you through the process of defining ACL definitions, and a reference of all possible important ACL settings.

Warning

The default user 'root@localhost' is not affected by the Ticket ACLs

1.2. Ufafanuzi

The ACL definition can be split into two big parts, 'Matching' and 'Change'. In the matching sections the ACLs contains attributes that has to be met in order to use the ACL. If the attributes defined in the ACL does not match with the attributes that are sent, then the ACL does not take any affect, but any other match ACL will. The change sections contains the rules to reduce the possible options for a ticket.

Matching Sections

- tabia

This section contains matching options that can be changed on the fly. For example on a ticket creation time the data of the ticket changes dynamically as the agent sets the information. If an ACL is set to match a ticket attribute then only when the matching attribute is selected the ACL will be active and might reduce other ticket attributes, but as soon as another value is selected the ACL will not take any affect.

- PropertiesDatabase

This section is similar to 'Properties' but does not take changes in ticket attributes that are not saved into the DataBase, this means that changing an attribute without submit will not make any effect. This section is not use for ticket creation screens (as tickets are not yet created in the Database).

Change Sections

- Possible

Possible section resets the data to be reduced to only the elements that are set in this section.

- PossibleAdd

Elements in PossibleAdd section add missing elements that were reduced in other ACLs. PossibleAdd is only used in together with other ACLs that have Possible or PossibleNot sections.

- PossibleNot

This section is used to remove specific elements from the current data. It could be used stand alone or together with other ACLs with a Possible or PossibleAdd sections.

In order to make the development of ACLs easier and more powerful there is a set of so called modifiers for the attributes on each section. This modifiers are explained below:

Modifiers

- [Not]

This modifier is used to negate a value for example: '[Not]2 low' in this case talking about ticket priorities will be the same as to have: '1 very low', '3 normal', '4 high', '5 very high'.

- [RegExp]

It is use to define a regular expression for matching several values, for example '[RegExp]low' talking about priorities is the same as '1 very low', '2 low'.

- [regex]

It is very similar to [RegExp] but it is case insensitive.

- [NotRegExp]

Negated regular expressions for example '[NotRegExp]low' talking about priorities is the same as '3 normal', '4 high', '5 very high'.

- [Notregex]

It is very similar to [NotRegExp] but it is case insensitive.

1.3. Mifano

The following examples are shown in both ways graphical and text based.

Example 5.1. ACL inayoruhusu uingizwaji kwenye foleni wa tiketi zenye kipaumbele cha tiketi 5.

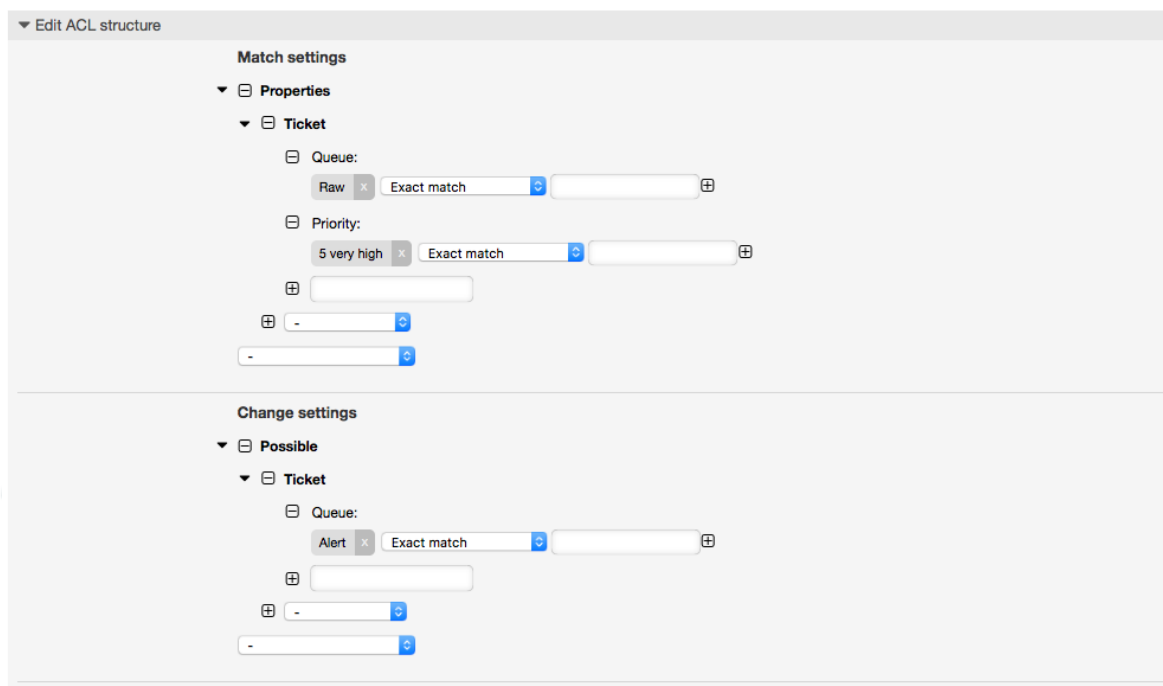
This example shows you the basic structure of an ACL. First, it needs to have a name. In this case, it is "100-Example-ACL". Note that the ACLs will be numerically sorted before execution, so you should use the names carefully.

Secondly, you have a "Properties" section which is a filter for your tickets. All the criteria defined here will be applied to a ticket to determine if the ACL must be applied or not. In our example, a ticket will match if it is in the queue "Raw" and has priority "5 very high". This is also affected by changes in the form (e.g. if the ticket is the queue "Raw" and had

a priority "3 normal" at this moment the ACL will not match, but then priority drop-down is selected and the priority is changed now to "5 very high" then will also match).

Mwisho, kifungu "Inawezekana" inafafanua mabadiliko ya skrini. Katika kesi hii, kutoka kwenye foleni zinazopatikana, foleni "Tahadhari" tu inaweza kuchaguliwa katika skrini ya tiketi.

Figure 5.1. ACL 100-Example-ACL



```
# ticket acl
$self->{TicketAcl}->{'100-Example-ACL'} = {
  # match properties
  Properties => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
      Priority => ['5 very high'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      Queue => ['Alert'],
    },
  },
};
```

Example 5.2. ACL inaruhusu uingiaji kwenye foleni kwa zile tiketi zenye kipaumbele cha tiketi 5 na zimehifadhiwa kwenye hifadhidata.

Huu mfano ni sawa na uliopita, lakini katika kesi hii tiketi za kwenye foleni "Mbichi" na zenye kipaumbele "5 cha juu sana", zote zikiwa kwenye hifadhidata zitafanana. Hii aina ya ACL haiweki maanani mabadiliko katika muundo kabla tiketi haijasasishwa kwenye hifadhidata.

Figure 5.2. ACL 102-Example-ACL

▼ Edit ACL structure

Match settings

- ▼ PropertiesDatabase
 - ▼ Ticket
 - Queue:
 - Raw x Exact match [dropdown] [input]
 - Priority:
 - 5 very high x Exact match [dropdown] [input]
 - [+]
 - [+]
 - [+]

Change settings

- ▼ Possible
 - ▼ Ticket
 - Queue:
 - Alert x Exact match [dropdown] [input]
 - [+]
 - [+]
 - [+]

```
# ticket acl
$self->{TicketAcl}->{'102-Example-ACL'} = {
  # match properties
  PropertiesDatabase => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
      Priority => ['5 very high'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      Queue => ['Alert'],
    },
  },
};
```

Example 5.3. ACL ikilemaza ufungaji wa tiketi katika foleni mbichi, na kuficha kitufe cha kufunga.

Hapa unaweza kuona jinsi sehemu ya tiketi (hali) inavyoweza kuchujwa na zaidi ya thamani moja ya kuchagua. Pia inawezekana kuweka kikomo cha vitendo vinavyoweza kutekelezeka kutoka kwenye tiketi. Katika kesi hii tiketi haiwezi kufungwa.

Figure 5.3. ACL 102-Second-Example-ACL

▼ Edit ACL structure

Match settings

- ▼ Properties
 - ▼ Ticket
 - Queue:
 - Raw Exact match

Change settings

- ▼ Possible
 - ▼ Ticket
 - State:
 - new open pending reminder Exact match
- ▼ PossibleNot
 - ▼ Action
 - AgentTicketClose Exact match

```

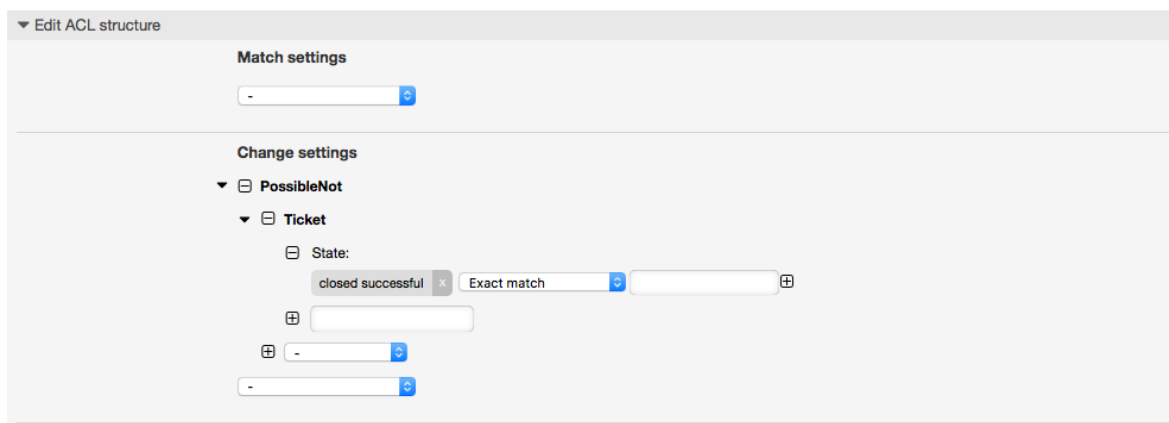
$Self->{TicketAcl}->{'102-Second-Example-ACL'} = {
  # match properties
  Properties => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      State => ['new', 'open', 'pending reminder'],
    },
  },
  # return also not possible options (black list)
  PossibleNot => {
    # not possible action options
    Action => [ 'AgentTicketClose' ],
  },
};

```

Example 5.4. Uondoaji wa ACL una hali imefungwa kikamilifu mara zote.

Huu mfano unaonyesha jinsi inavyowezekana kufafanua vichujio hasi (hali "imefungwa kwa mafanikio" itaondolewa). Pia unaweza kuona kutofafanua sifa za kufanana za tiketi itafananisha tiketi yoyote, ikimaanisha ACL itatumika mara zote. Hii itakuwa na manufaa kama utataka kuficha baadhi ya thamani kwa chaguo-msingi, na kuziwezesha katika hali maalumu (mf. kama wakala yupo kwenye kundi maalumu).

Figure 5.4. ACL 103-Third-ACL-Example

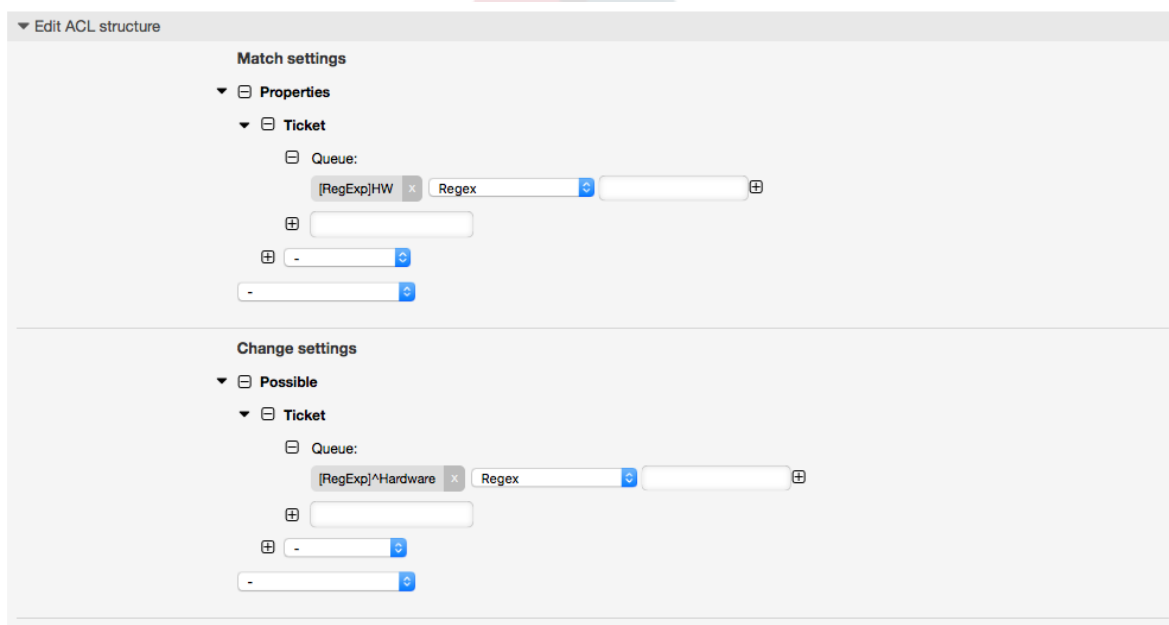


```
$Self->{TicketAcl}->{'103-Third-ACL-Example'} = {
  # match properties
  Properties => {
    # current ticket match properties (match always)
  },
  # return possible options
  PossibleNot => {
    # possible ticket options
    Ticket => {
      State => ['closed successful'],
    },
  },
};
```

Example 5.5. ACL inaonyesha huduma za Vifaa kwa ajili ya tiketi ambazo zinatengenezwa kwenye foleni zinazoanza na "HW"

Huu mfano unaonyesha jinsi unavyoweza kutumia semi za kawaida kufananisha tiketi na kuchuja machaguo yaliyopo.

Figure 5.5. ACL 104-Only-Hardware-Services-for-HW-Queues-ACL



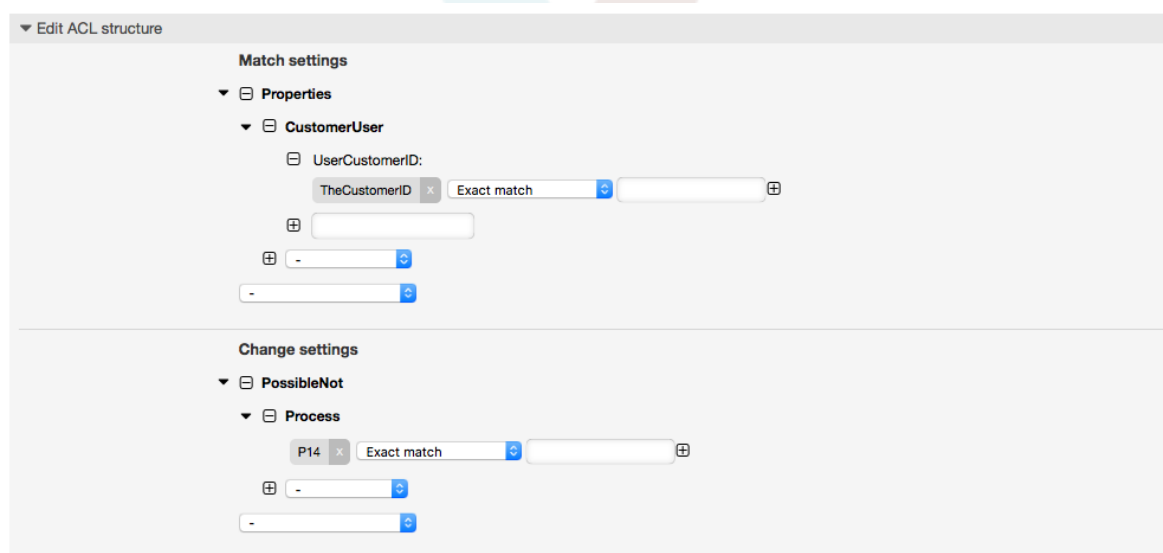
```

$Self->{TicketAcl}->{'104-Only-Hardware-Services-for-HW-Queues-ACL'} = {
  # match properties
  # note we don't have "Ticket => {" because there's no ticket yet
  Properties => {
    Queue => {
      Name => ['[RegExp]HW'],
    }
  },
  # return possible options
  Possible => {
    # possible ticket options
    Ticket => {
      Service => ['[RegExp]^(Hardware)'],
    },
  },
};

```

Example 5.6. ACL to restrict a Process in the customer frontend using the CustomerID.

Figure 5.6. ACL 105-Disallow-Process-For-CustomerID



The screenshot shows the 'Edit ACL structure' interface. Under 'Match settings', the 'Properties' section is expanded to 'CustomerUser', where 'UserCustomerID' is configured with the value 'TheCustomerID' and 'Exact match'. Below this, there are two empty input fields. In the 'Change settings' section, the 'PossibleNot' section is expanded to 'Process', where 'P14' is configured with the value 'Exact match'. Below this, there are two empty input fields.

```

$Self->{TicketAcl}->{"105-Disallow-Process-For-CustomerID"} = {
  'Possible' => {},
  'PossibleNot' => {
    'Process' => [
      'P14'
    ]
  },
  'Properties' => {
    'CustomerUser' => {
      'UserCustomerID' => [
        'CustomerID'
      ]
    }
  },
  'PropertiesDatabase' => {},
  'StopAfterMatch' => 0
};

```

1.4. Marejeo

Kwenye mfano chini kuna orodha ya parameta zote ambazo zinaweza kutumika na ACLs.

Please see the section on ACLs in the ProcessManagement documentation for a detailed description of how to use ACLs for process tickets.

Example 5.7. Rejea inayoonyesha mipangilio yote muhimu ya ACLs.

```
# ticket acl
$self->{TicketAcl}->{'200-ACL-Reference'} = {
  # match properties (current values from the form)
  Properties => {

    # the used frontend module
    Frontend => {
      Action => ['AgentTicketPhone', 'AgentTicketEmail'],
    },

    # the logged in agent
    User => {
      UserLogin => ['some login'],
      Group_rw => [
        'hotline',
      ],
      Role => [
        'admin',
      ],
      # ...
    },

    # the logged in customer
    CustomerUser => {
      UserLogin => ['some login'],
      UserCustomerID => ['some customer id'],
      Group_rw => [
        'hotline',
      ],
      Role => [
        'admin',
      ],
      # ...
    },

    # process properties
    Process => {
      ProcessEntityID => ['Process-9c378d7cc59f0fce4cee7bb9995ee3eb'],
      # the Process that the current ticket is part of
      ActivityEntityID => ['Activity-f8b2fdebe54eeb7b147a5f8e1da5e35c'],
      # the current Activity of the ticket
      ActivityDialogEntityID => ['ActivityDialog-aff0ae05fe6803f38de8fff6cf33b7ce'],
      # the current ActivityDialog that the Agent/Customer is using
    },

    # ticket properties
    Queue => {
      Name => ['Raw'],
      QueueID => ['some id'],
      GroupID => ['some id'],
      Email => ['some email'],
      RealName => ['OTRS System'],
      # ...
    },
    Service => {
      ServiceID => ['some id'],
      Name => ['some name'],
      ParentID => ['some id'],
      # ...
    },
    Type => {
      ID => ['some id'],
      Name => ['some name'],
      # ...
    }
  }
}
```

```

},
Priority = {
  ID => ['some id'],
  Name => ['some name'],
  # ...
},
SLA = {
  SLAID => ['some id'],
  Name => ['some name'],
  Calendar => ['some calendar'],
  # ...
},
State = {
  ID => ['some id'],
  Name => ['some name'],
  TypeName => ['some state type name'],,
  TypeID => ['some state type id'],
  # ...
},
Owner => {
  UserLogin => ['some login'],
  Group_rw => [
    'some group',
  ],
  Role => [
    'admin',
  ],
  # ...
},
Responsible => {
  UserLogin => ['some login'],
  Group_rw => [
    'some group',
  ],
  Role => [
    'admin',
  ],
  # ...
},
DynamicField => {
  # Names must be in DynamicField_<field_name> format.
  # Values in [ ... ] must always be the untranslated internal data keys
  # specified in the dynamic field definition and
  # not the data values shown to the user.
  DynamicField_Field1 => ['some value'],
  DynamicField_OtherField => ['some value'],
  DynamicField_TicketFreeText2 => ['some value'],
  # ...
},
# alternatively, ticket properties can be specified in the ticket hash
Ticket => {
  Queue => ['Raw'],
  State => ['new', 'open'],
  Priority => ['some priority'],
  Lock => ['lock'],
  CustomerID => ['some id'],
  CustomerUserID => ['some id'],
  Owner => ['some owner'],
  DynamicField_Field1 => ['some value'],
  DynamicField_MyField => ['some value'],
  # ...
},
},

# match properties (existing values from the database)
PropertiesDatabase => {
  # See section "Properties", the same config can be used here.
  # ...
}

# reset possible options (white list)
Possible => {

```

```

# possible ticket options (white list)
Ticket => {
  Queue => ['Hotline', 'Coordination'],
  State => ['some state'],
  Priority => ['5 very high'],
  DynamicField_Field1 => ['some value'],
  DynamicField_MyField => ['some value'],
  # ...
  NewOwner => ['some owner'],
  OldOwner => ['some owner'],
  # ...
},

# Limit the number of possible ActivityDialogs the Agent/Customer
# can use in a process ticket.
ActivityDialog => ['AD1', 'AD3'],

# Limit the number of possible Processes that can be started
Process => ['Process-9c378d7cc59f0fce4cee7bb9995ee3eb',
'Process-12345678901234567890123456789012'],

# possible action options (white list)
Action => [
  'AgentTicketBounce',
  'AgentTicketPhone'.      # only used to show/hide the Split action
  'AgentLinkObject',      # only used to show/hide the Link action
  # ...
],
},
# add options (white list)
PossibleAdd => {
  # See section "Possible"
  # ...
},
# remove options (black list)
PossibleNot => {
  # See section "Possible"
  # ...
},
};

```

Note

Wakati wa kufananisha ACL ikiwa parameta ya KitambulishoChaMtejaMtumiaji imetumwa, utaratibu wa ACL utafanananisha ACL zilizofafanuliwa kwa kutumia KitambulishoChaMtejaMtumiajiMteja kukusanya undani wa MtejaMtumiaji ili kujaza hash ya MtejaMtumiaji na pia inabadilisha taarifa za Mteja katika hash ya Tiketikwa ajili ya sifa kufanana. Kwa upande mwingine haya mahesabu pia yanafanywa kwa ajili ya upande wa SifaZaHifadhidata, lakini kwa kutumia Mteja wa Tiketi kama msingi wa kukusanya data.

Tambua kwamba katika Kiolesura cha Mteja, Kitambulisho cha MtejaMtumiaji kinatumwa mara zote na Mtumiaji Mteja aliye kwenye mfumo.

Be aware that in ticket search screens (AgentTicketSearch and CustomerTicketSearch) the only affected attributes by ACLs are the Dynamic Fields. This means that this screens you can not restrict any other attribute like ticket type, state, queue, etc.

From OTRS 4 the 'Action' parameter is not longer a hash but an array reference and it can be used in any of the Change sections using any of the Modifiers.

2. Usimamizi wa mchakato

2.1. Utangulizi

Hiki kipengele cha OTRS kinakuruhusu kutengeneza michakato (mitiririko ya kazi) katika mfumo wa tiketi. Wazo la msingi ni kufafanua michakato inayojirudia, na kugawa kazi kwa watu tofauti, na pia kuongoza maendeleo ya mchakato katika njia tofauti kutegemeana na vigezo fulani.

2.2. Mchakato wa mfano

Tuone mfano ili kuona zaidi inavyofanyika. Tutafafanua mchakato wa kuoda kitabu:

2.2.1. Ku rekodi mahitaji

Kabla oda haijawekwa, maombi ya fasihi ya mwajiriwa yatarekodiwa. Kitabu kifuatacho kitahitajika katika mfano wetu:

Title: Prozessmanagement für Dummies
Autor: Thilo Knuppertz
ISBN: 3527703713

2.2.2. Imehakikiwa na meneja

Kiongozi wa idara ya wafanya kazi inabidi aamue kwenye oda. Kama imekataliwa, sababu lazima irekodiwe na meneja. Kama imekubaliwa, oda inapitishwa kwenda kwa idara ya manunuzi.

2.2.3. Idara chakatishi ya manunuzi

Manunuzi sasa yana kazi ya kujua wapi oda ya kitabu itafanywa penye masharti mazuri. Kama vimeisha, inaweza kurekodiwa kwenye oda. Kama oda imefanikiwa manunuzi atarekodi msambazaji, bei na tarehe ya kuwasilisha.

2.2.4. Chumba chakatishi cha barua pepe

Vilivyosafirishwa vitawasili kwenye kampuni. Idara ya mali zinazolingia itakagua vilivyosafirishwa na kurekodi siku ya kupokea. Sasa wafanyakazi watapewa taarifa kwamba oda yao imewasili na iko tayari kuchukuiwa.

2.3. Kutekeleza mfano

Kama tukiamini kwamba tiketi inatenda kama waraka unao andamana nao katika huu mtiririko wa kazi ambao unaweza kupokea notisi za mabadiliko, sasa tuna picha kamili ya tiketi za mchakati.

Kutoka kwenye uchambuzi wa mchakato wa mfano tunaweza kubainisha vifaa muhimu vifuatavyo:

- Uwezekano wa kurekodi data, tuziite *Maongezi ya Shughuli*,
- Inaangalia ipi itabadilika kiotomatiki na data zilizobadilishwa, tuziite *Mapito*,
- mabadiliko yanayoweza kufanyika kwenye tiketi ya mchakato baada ya kufanikiwa kwa mapito ya tiketi ya mchakato, tuyaite *Vitendo vya Mpito*.

Pia tunahitaji vifaa vya ziada ambavyo si dhahiri:

- Uwezekano wa upatikanaji wa Maongezi ya Shughuli zaidi ya aina moja. Katika mfano wetu hii inahitajika pale msimamizi inabidi apate machaguo kati ya "Kubali" na "Kataa". Hii tuiite *Shughuli*.

Sasa, tukiwa na Shughuli, Maongezi ya Shughuli, Mapito na Vitendo vya Mpito tuna vifaa vinavyohitajika ili kutengeneza moduli ya hatua binafsi za mfano wetu. Kinachobakia ni eneo ambalo kila mtiririko wa kazi mpangilio wa ngazi unaweza kuwekwa bayana. Hii tuiite *Mchakato*. Ili tuweze kurejea kwenye hivi vyombo baadae, tutazipa vifupisho katika mabano. Huu ufupisho unategemeana na utaratibu wa ndani wa utambulisho uitwao Ki-tambulisho cha Chombo.

Vitambulisho vya Chombo vinafanana na vina herufi moja au mbili (kutegemeana na mchakato au chombo) na baada ya hapo mfululizo wa namba, mifano:

- Mchakato: 'P1', 'P2' ... 'Pn'.
- Shughuli: 'A1', 'A2' ... 'An'.
- Maongezi ya Shughuli: 'AD1', 'AD2' ... 'ADn'.
- Mpito: 'T1', 'T2' ... 'Tn'.
- Vitendo vya Mpito: 'TA1', 'TA2' ... 'TAn'.

Kabla ya utengenezaji wa mchakato na viji sehemu vyake ni muhimu kuuandaa mfumo, tutahitaji kufafanua baadhi ya Foleni, Watumiaji na Sehemu Zinazobadilika na pia kuseti baadhi ya machaguo ya SysConfig.

Tengeneza foleni zifuatazo:

- Usimamizi
- Wafanyakazi
- Ununuzi
- Ofisi ya posta

Tengeneza watumiaji wafwatao:

- Meneja
- Mfanyakazi

Tengeneza Sehemu Zinazobadilika zifuatazo:

- Mada

Lebo	Mada
Aina	Nakala
Kitu	Tiketi

- Mwandishi

Lebo	Mwandishi
Aina	Nakala

Kitu	Tiketi
------	--------

- ISBN

Lebo	ISBN
Aina	Nakala
Kitu	Tiketi

- Hali

Lebo	Hali
Aina	Kunjuzi
Kitu	Tiketi
Thamani ziwazekana	<ul style="list-style-type: none"> • Kibali • Kibali kimekataliwa • Kubaliwa • Oda imekataliwa • Oda imewekwa • Vilivyosafirishwa vimepokelewa

Kumbuka: Tafadhali tumia thamani hizi ziwazekana kwa "Ufunguo" na "Thamani" kwenye usanidi wa Sehemu Zinazobadilika.

- Msambazaji

Lebo	Msambazaji
Aina	Nakala
Kitu	Tiketi

- Bei

Lebo	Bei
Aina	Nakala
Kitu	Tiketi

- TareheUwasilishaji

Lebo	Tarehe ya uwasilishaji
Aina	Tarehe
Kitu	Tiketi

- TareheYaKupokea

Lebo	Tarehe Ya Kupokea
Aina	Tarehe
Kitu	Tiketi

- 'Tiketi::Kuwajibika':Ndio
- 'Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicFieldGroups':

Ufunguo:	Maudhui:
Kitabu	Mada, Mwandishi, ISBN
Ujumla	Hali
Oda	Bei, Msambazaji, TareheUwasilishaji
Usafirishaji	TareheYaKupokea

- 'Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicField':

Ufunguo:	Maudhui:
Mwandishi	1
TareheYaKupokea	1
TareheUwasilishaji	1
ISBN	1
Bei	1
Hali	1
Msambazaji	1
Mada	1

Sasa tuanze na mambo ya kweli ya Usimamizi wa Mchakato. Katika hatua inayofwata, tutafafanua vyombo vyenyewe tunavyohitaji.

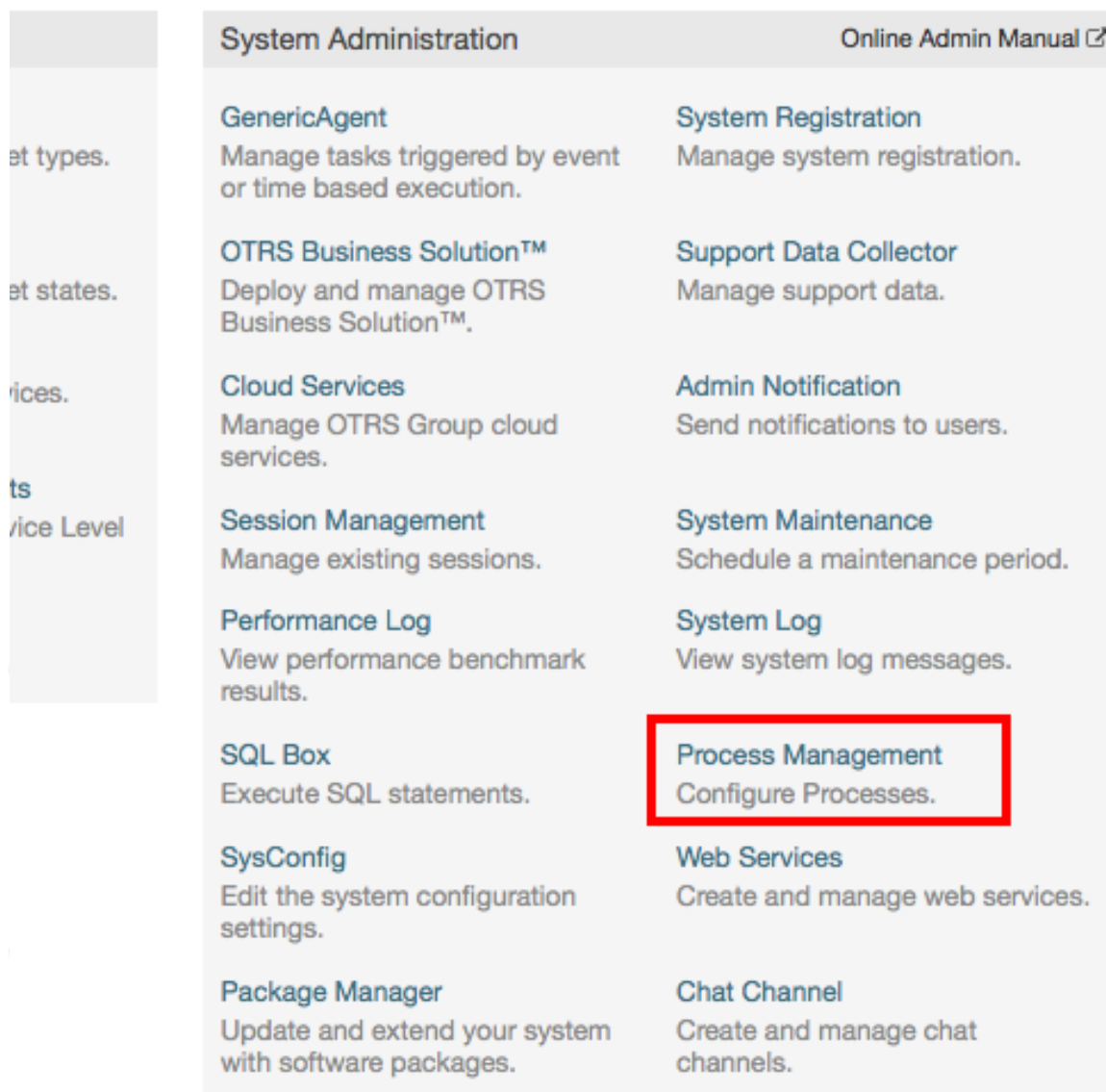
2.3.1. Mchakato (kama chombo)

Kutengeneza mchakato mpya ni muhimu kubofya kwenye kiungo cha "Usimamizi wa Mchakato" katika boksi la Usimamizi wa Mfumo katika paneli ya Msimamizi, hii itakupeleka kwenye skrini ya Mapitio ya Usimamizi wa Mchakato. Baada ya utengenezaji wa mchakato tunaweza kutengeneza vyombo vingine vyote (au sehemu za mchakato).

Note

Shughuli, Maongezi ya Shughuli, Mapito na Vitendo vya Mpito vilivyofafanuliwa kwenye mchakato mmoja vitapatikana kwa kila mchakato ya mfumo.

Figure 5.7. OTRS Admin screen - System Administration



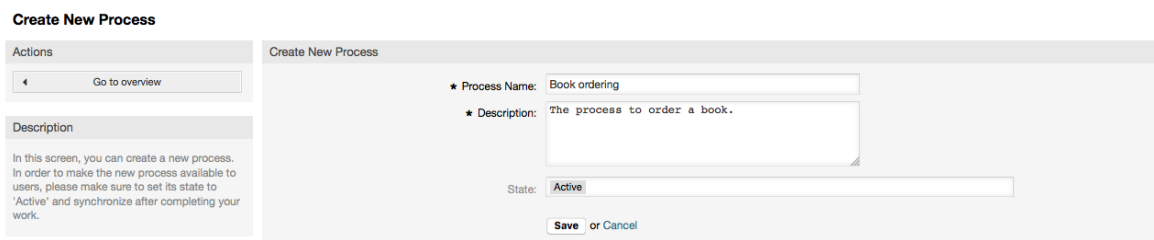
Bonyeza kitendo cha "Tengeneza mchakato mpya" kutoka kwenye boksi la vitendo.

Figure 5.8. Kitufe cha kutengeneza mchakato mpya



Jaza taarifa za mchakato, seti jina la mchakato na undani wake, tutaacha hali ya mchakato kuwa iliyo "Lemazwa", mpaka tumalize kazi zote. Hifadhi mchakato.

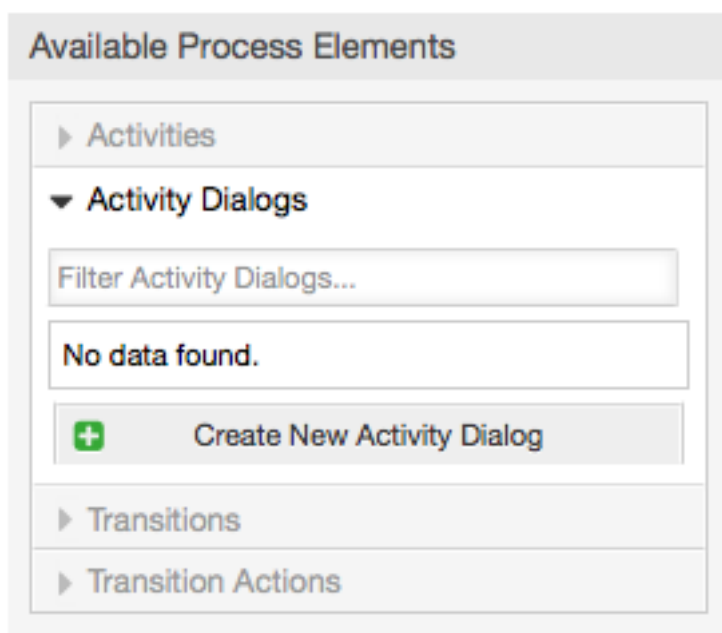
Figure 5.9. Ongeza mchakato mpya



2.3.2. Maongezi ya Shughuli

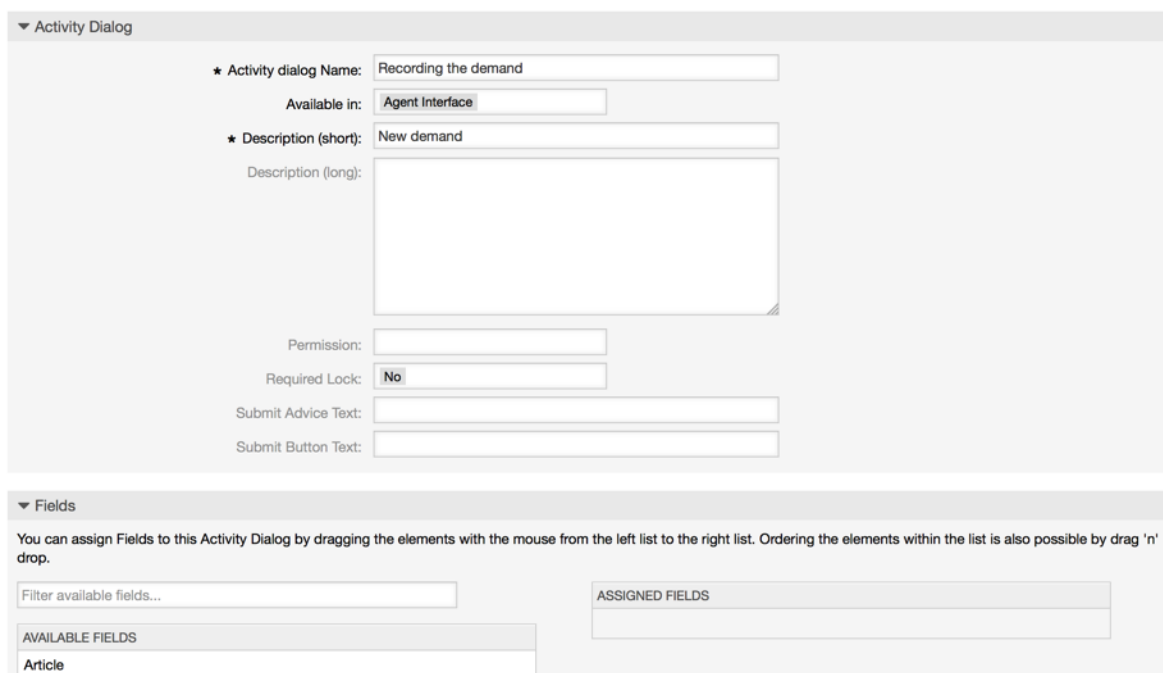
Click on the new process name in the Process Management Overview Screen, then in the "Available Process Elements" click in "Activity Dialogs" (this action will expand the activity dialog options and will collapse all others doing an accordion like effect), then click on "Create New Activity Dialog".

Figure 5.10. Tengeneza Kitufe cha Maongezi ya Shughuli kipya



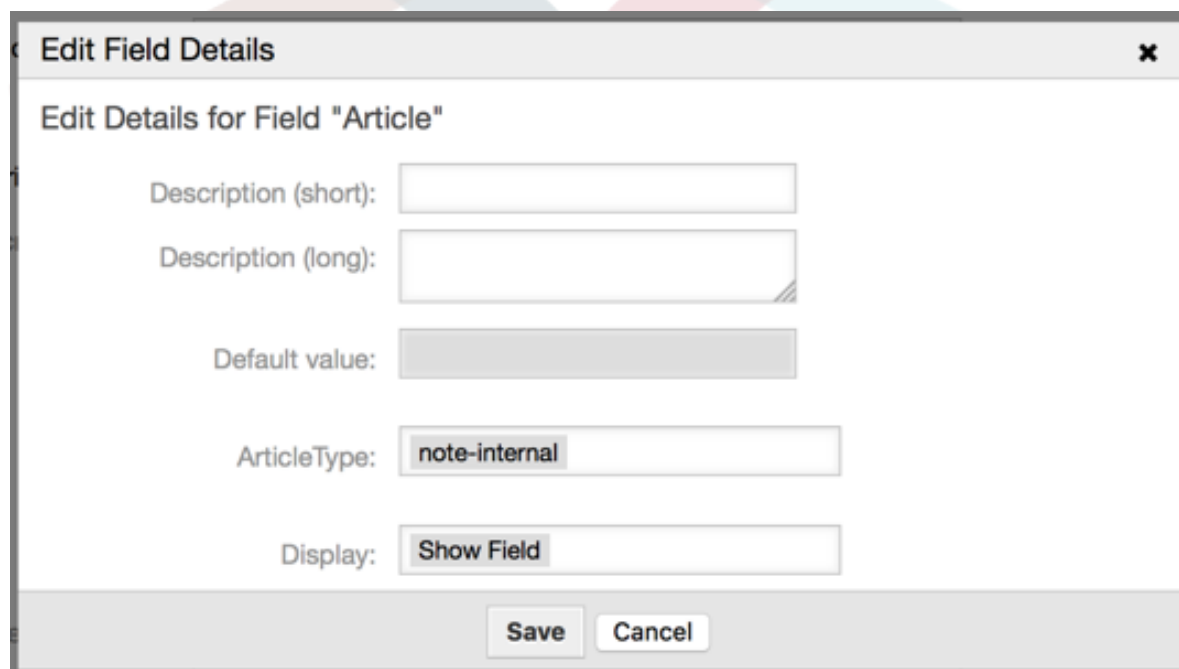
In the opened popup screen fill the "Activity dialog Name" as well as the "Description (short)" fields, for this example we will leave all other fields as the default, to assign fields to the Activity Dialog simple drag the required field from the "Available Fields" pool and drop into the "Assigned Fields" pool. The order in the "Assigned Fields" pool is the order as the fields will have in the screen, to modify the order simply drag and drop the field within the pool to rearrange it in the correct place.

Figure 5.11. Ongeza Maongezi ya Shughuli mapya



Baada tu ya sehemu kudondoshwa katika bwawa la "Sehemu Zilizogawiwa" skrini ibukizi nyingine inaonyeshwa yenye undani kuhusu sehemu hiyo, tutaacha machaguo ya kawaida na kwa sehemu za Makala tu ndiyo tuhakikishe kwamba sehemu ya Aina ya Makala imesetiwa kuwa "notisi-ndani".

Figure 5.12. Hariri undani wa uga (Makala)



Baada ya sehemu zote kupewa thamani bofya kitufe cha kuwasilisha katika skrini kuu ibukizi kuhifadhi mabadiliko.

Katika mfano huu tutatumia sehemu ya Makala kwa ajili ya maoni, lakini chaguo Ingene linaweza kuwa kutengeneza EneoLaNakala la aina Sehemu Inayobadilika, sehemu zili-

zobaki ambazo zimetajwa katika mistari chini ni Sehemu Zinazobadilika ambazo tume-fafanua kabla.

Please be aware that in this screen all the Dynamic Fields has the prefix "DynamicField_" as in "DynamicField_Title". Do not confuse with the field "Title" that is the Ticket Title.

Tengeneza Maongezi ya Shughuli yafwatayo:

- "Kurekodi mahitaji" (AD1)

Maongezi ya Shughuli yenye sehemu zote zinazoitajika ili data ikusanywe kwa oda (Kichwa cha habari, Mwandishi na ISBN), na sehemu ya Haliyenye uwezekano wa kuchagua "Kibali".

- "Kibali kimekataliwa" (AD2)

Maongezi ya Shughuli yenye sehemu ya kuweka maoni (Makala) na sehemu ya Hali yenye chaguo "Kibali kimekataliwa".

- "Kubaliwa" (AD3)

Hapa tunahitaji hali ya uga wenye chaguo "Kubaliwa"

- "Oda imekataliwa" (AD4)

Maongezi ya shughuli yanayoweza kununua ili kukataa oda isiyoweza (kulipia mzigo kabla ikiwa hisa zimeisha). Hapa pia tunahitaji sehemu ya maoni na sehemu ya Hali yenye chaguo "Oda imekataliwa"

- "Oda imewekwa" (AD5)

Maongezi ya Shughuli yenye sehemu Msambazaji, Bei na tarehe ya Uwasilishaji kwa manunuzi na sehemu ya Hali yenye chaguo "Oda imewekwa".

- "Vilivyosafirishwa vimepokelewa" (AD6)

Shughuli ya kwenye chumba cha barua yenye sehemu ya Tarehe ya upokeaji na sehemu ya Hali yenye chaguo "Vilivyosafirishwa vimepokelewa".

To restrict the Status field for each activity dialog we need to add some ACLs in the Kernel/Config.pm or to a new Perl file located in Kernel/Config/Files.

```

$self->{TicketAcl}->{'P1-AD1-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD1'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Approval'],
    },
  },
};

$self->{TicketAcl}->{'P1-AD2-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD2'],
    },
  },
  Possible => {
    Ticket => {

```

```

        DynamicField_Status => ['Approval denied'],
      },
    },
  };

$self->{TicketAcl}->{'P1-AD3-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD3'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Approved'],
    },
  },
};

$self->{TicketAcl}->{'P1-AD4-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD4'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Order denied'],
    },
  },
};

$self->{TicketAcl}->{'P1-AD5-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD5'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Order placed'],
    },
  },
};

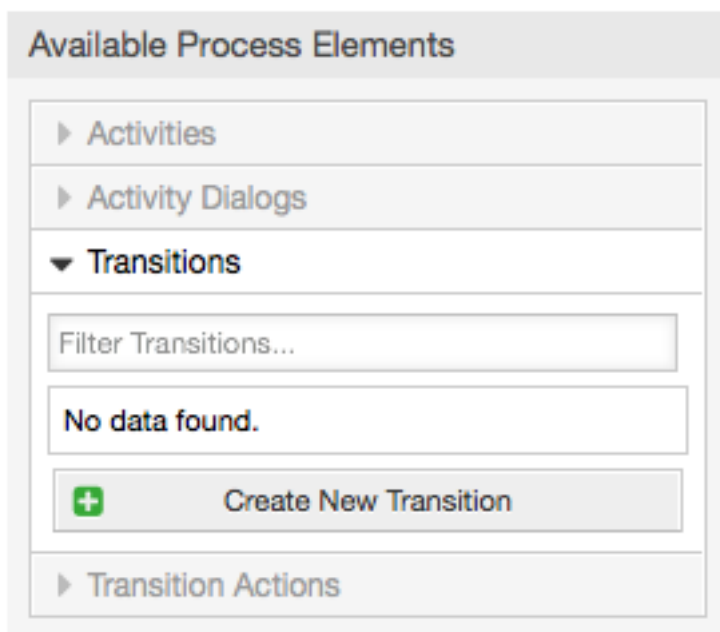
$self->{TicketAcl}->{'P1-AD6-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD6'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Shipment received'],
    },
  },
};

```

2.3.3. Mapito

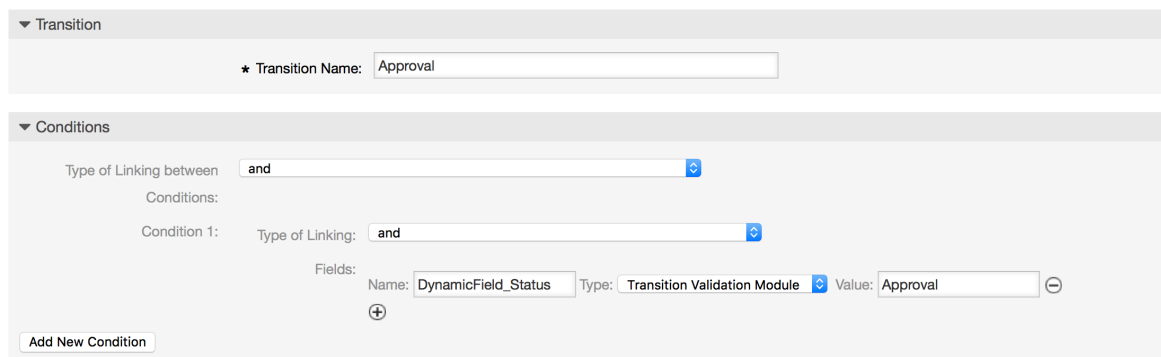
Kwenye "Elementi Zinzapatikana za Mchakato" bofya kwenye "Mapito", kisha bofya "Tengeneza Mpito Mpya"

Figure 5.13. Tengeneza kitufe kipya cha mpito



Katika skrini ibukizi iliyofunguliwa jaza "Jina la Mpito", kisha kwenye masharti, kwa mfano huu tumia sharti moja tu na sehemu moja, kwa zote tunaweza kuacha Aina ya muunganiko kama "na" na tutatumia thamani ya aina ya kufanana kama "Tungo".

Figure 5.14. Ongeza mpito mpya



Baada ya masharti yote kusetiwa bofya kwenye kitufe cha kuhifadhi kuhifadhi mabadiliko.

Tengeneza Mapito yafuatayo:

- "Kibali" (T1)
Mpito unaokagua kama Sehemu ya Hali imesetiwa kuwa "Kibali".
- "Kibali kimekataliwa" (T2)
Mpito unaokagua kama Sehemu ya Hali imesetiwa kuwa "Kibali kimekataliwa".
- "Kubaliwa" (T3)
Mpito unaokagua kama Sehemu ya Hali imesetiwa kuwa "Kubaliwa".
- "Oda imekataliwa" (T4)

Mpito unaokagua kama sehemu ya Hali imesetiwa kuwa "Oda imekataliwa".

- "Oda imewekwa" (T5)

Mpito unaokagua kama sehemu ya Hali imesetiwa kuwa "Oda imewekwa".

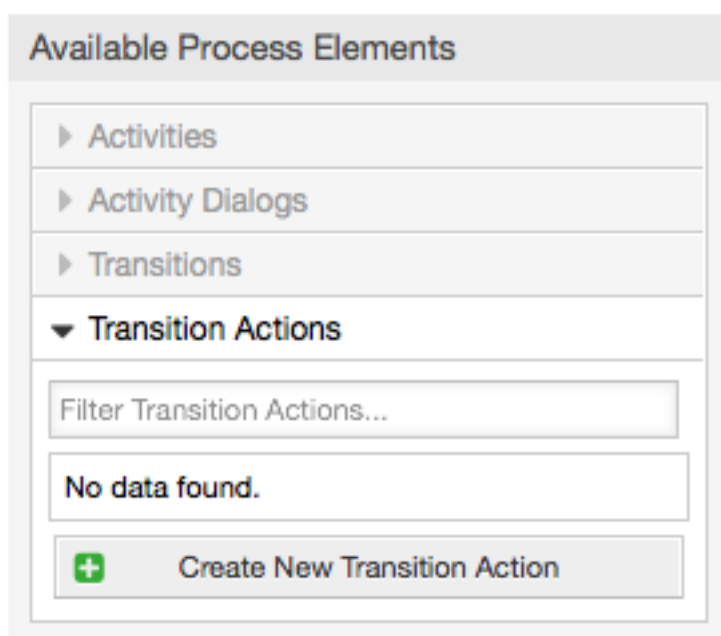
- "Vilivyosafirishwa vimepokelewa" (T6)

Mpito unaokagua kama sehemu ya Hali imesetiwa kuwa "Vilivyosafirishwa vimepokelewa".

2.3.4. Vitendo vya mpito

Bofya kwenye "Vitendo vya Mpito" katika "Elementi za Michakato Zilizopo", kisha bofya "Tengeneza Kitendo Kipya cha Mpito".

Figure 5.15. Tengeneza kitufe kipya cha vitendo vya mpito



In the opened popup screen fill the "Transition Action Name", and the "Transition Action module" then add the required and optional parameter names and values.

All the Transition Action Modules are located in `Kernel/System/ProcessManagement/TransitionAction` and the following is the list of bundled Transition Actions included in this release:

- SetiSehemuInayobadilika
- TengenezaTiketiMakala
- TengenezaTiketi
- SetiTiketiMteja
- SetiKitasaTiketi
- SetiMwenyeTiketi
- SetiFoleniTiketi

- SetKuwajibikaTiketi
- SetiHudumaTiketi
- SetiSLATiketi
- SetiHaliTiketi
- SetiMadaTiketi
- SetiAinaTiketi

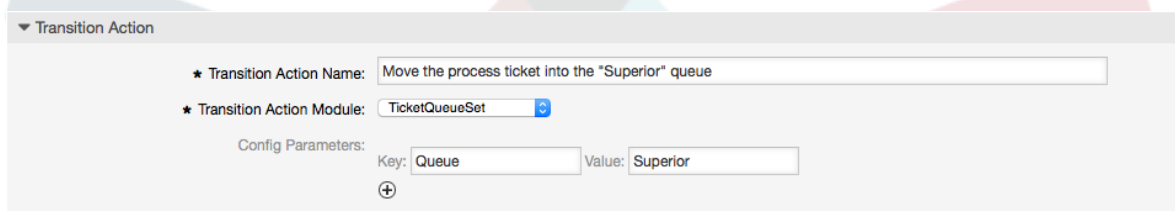
Kila moduli ina parameta zake tofauti. Tafadhali pitia nyaraka za moduli ili kujifunza parameta zote zinazohitajika na za hiari.

Note

From OTRS 4.0.1, parameters are not longer mandatory fixed values, but instead, they can inherit from the original ticket using format: <OTRS_Ticket_property>.

From OTRS 4.0.6, the format <OTRS_TICKET_property> is now supported, older format is still usable, but deprecated as it will be dropped in further versions.

Figure 5.16. Ongeza vitendo vya mpito mpya



▼ Transition Action

★ Transition Action Name:

★ Transition Action Module:

Config Parameters:

Key: Value:

+

Baada ya parameta na thamani zote kusetiwa bofya kitufe kuwasilisha ili kuhifadhi mabadiliko.

Tengeneza vitendo vya mpito vifwatavyo:

- "Peleka tiketi ya mchakato kwa Foleni ya 'Usimamizi' (TA1)

Hiki kitendo kinatakiwa kutekelezwa wakati Mpito "Kibali" (T1) umetumika.

- "Badilisha tiketi inayowajibika kwa 'manager'" (TA2)

Itatekelezwa pale mpito "Kibali" (T1) umetumika.

- "Move process ticket into the 'Employees' queue" (TA3)

Itatekelezwa wakati:

- Mpito "Kibali kimekataliwa" (T2) umetumika
- Mpito "Oda imekataliwa" (T4) umetumika
- Mpito "Vilivyosafirishwa vimepokelewa" (T6) umetumika

- "Badilisha tiketi inayowajibika kwa 'Mwajiriwa'" (TA4)

Itatekelezwa wakati:

- Mpito "Kibali kimekataliwa" (T2) umetumika

- Mpito "Oda imekataliwa" (T4) umetumika
- Mpito "Vilivyosafirishwa vimepokelewa" (T6) umetumika
- "Peleka tiketi ya mchakato kwa Foleni ya 'Manunuzi'" (TA5)
Itatekelezwa pale mpito "Imekubaliwa" (T3) umetumika.
- "Peleka tiketi za mchakato kwenye Foleni ya 'Ofisi ya posta'" (TA6)
Itatekelezwa pale mpito "Oda imewekwa" (T5) umetumika.
- "Kufunga tiketi kumefanikiwa" (TA7)
Itatekelezwa wakati:
 - Mpito "Vilivyosafirishwa vimepokelewa" (T6) umetumika
- "Kufunga tiketi hakujafanikiwa" (TA8)
Itatekelezwa wakati:
 - Mpito "Kibali kimekataliwa" (T2) umetumika
 - Mpito "Oda imekataliwa" (T4) umetumika

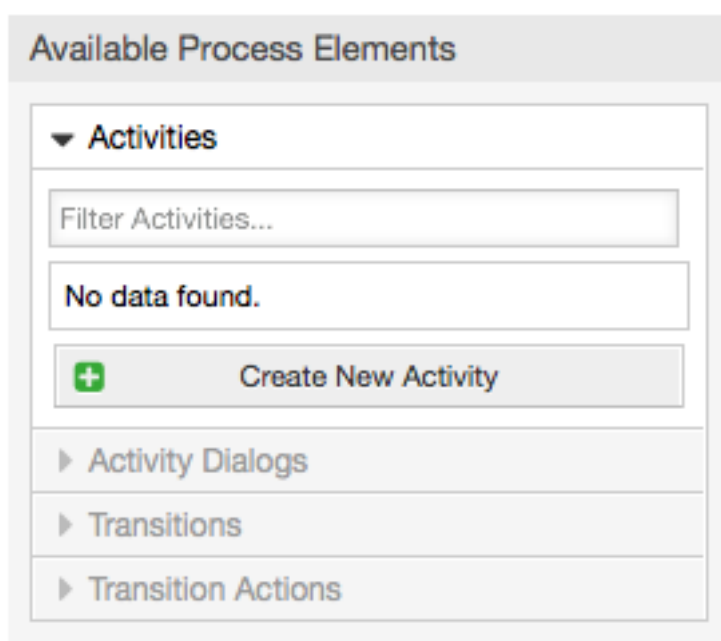
Kama unavyo ona, kuna sehemu ambazo vitendo vya mpito vile vile vitatekelezwa. Hivyo ni busara kuwezesha muunganiko wa Vitendo vya Mpito na Mapito kirahisi ili kuweza kurudia kuvitumia.

2.3.5. Shughuli

Tumechagua mbinu ya kuona shughuli kama kikapu ambacho kina Maongezi ya Shughuli.

Bofya "Shughuli" katika "Elementi za Michakato Zilizopo", kisha bofya "Tengeneza Shughuli Mpya".

Figure 5.17. Tengeneza kitufe kipya cha shughuli



In the opened popup screen fill the "Activity Name", then drag the required Activity Dialogs from the "Available Activity Dialogs" pool, and drop them into to the "Assigned Activity Dialogs" pool. This dialogs will be presented (in the ticket zoom screen) in the same order as it is defined on this screen translating from top to bottom, from left to right.

This order is specially important in the first Activity, since the first Activity Dialog for this activity is the only one that is presented when the process starts.

Tengeneza Shughuli zifuatazo

- "Kurekodi mahitaji" (A1)

Ina Maongezi ya Shughuli "Kurekodi mahitaji" (AD1)

- "Kibali" (A2)

Ina Maongezi ya Shughuli "Kibali kimekataliwa" (AD2) na pia "Imekubaliwa" (AD3)

- "Oda" (A3)

Ina Maongezi ya Shughuli "Oda imekataliwa" (AD4) na pia "Oda imewekwa" (AD5)

- "Zinazoingia" (A4)

Ina Maongezi ya Shughuli "Vilivyosafirishwa vimepokelewa" (AD6)

- "Mchakato umekamilika" (A5): Hii ni shughuli bila maongezi ya shughuli yawezekanayo. Ita setiwa baada ya "Kibali kimekataliwa", "Oda imekataliwa" au "Vilivyosafirishwa vimepokelewa" na inaashiria mwisho wa mchakato.

Sasa tunaweza kuona shughuli zimefafanuliwa kuwa hali za michakato ya tiketi. Baada ya kufanikiwa kwa mpito tiketi inapelekwa kutoka shughuli moja kwenda nyingine.

2.3.6. Njia ya mchakato wa kuoda kitabu

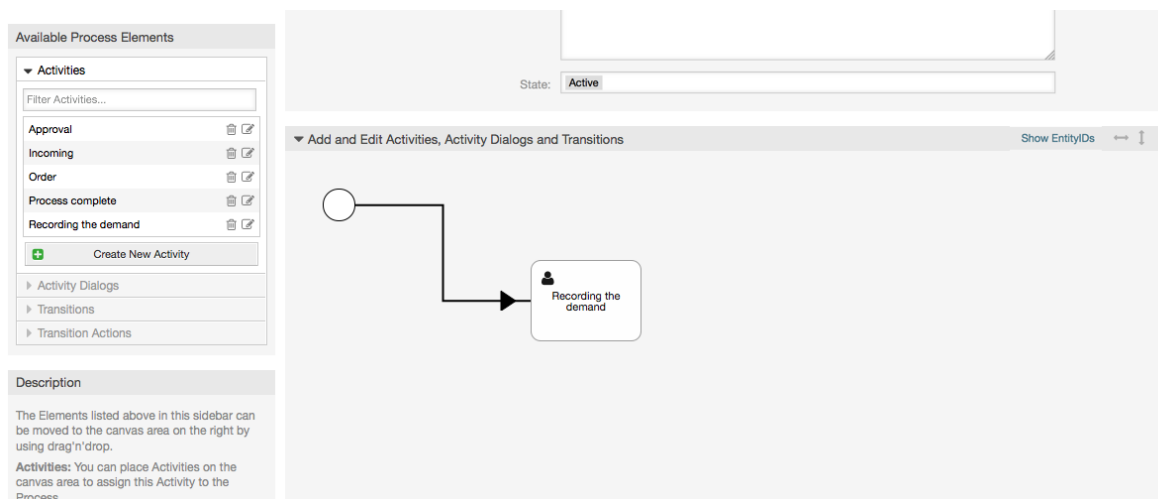
Tuhitimishe mfano wetu na kipande cha mwisho kisichokwepo cha fumbo, mchakato kama mfafanuzi wa mtiririko. Katika kesi yetu huu ni upangaji mzima wa mtiririko wa kazi. Michakato mingine inaweza kuwa kuewka oda za vifaa vya ofisi na michakato mingine tofauti kabisa.

Mchakato una pointi ya kuanza ambayo ina Shughuli ya kuanza na Maongezi ya Shughuli ya kuanza. Kwa oda yeyote mpya ya kitabu, skrini ya kwanza kuonyeshwa ni ya Maongezi ya Shughuli (Maongezi ya kwanza ya Shughuli kwa Shughuli ya kwanza). Kama hii imemalizika na kuhifadhiwa, tiketi ya mchakato itatengenezwa na kufwata sanidi ya mtiririko wa kazi.

Mchakato pia una mwelekeo ambao tiketi ya mchakato itapitishwa ndani ya mchakato. Tuiite hii "Njia". Ina Shughuli ya kuanza, Mpito mmoja au zaidi (pengine na Vitendo vya Mpito), na Shughuli nyingine.

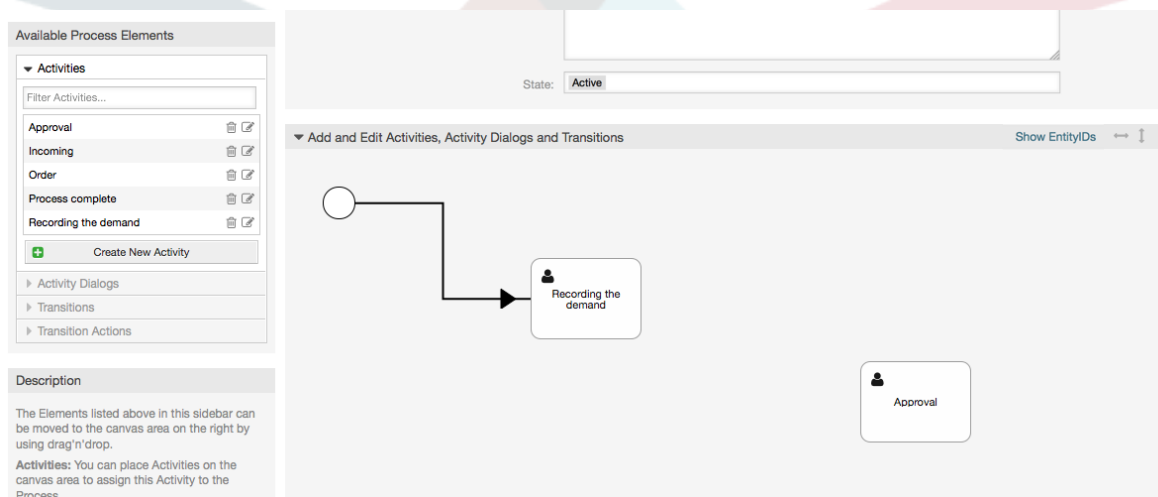
Tukiamini kwamba Shughuli tayari zimegawia Maongezi Ya Shughuli kuokota Shughuli kutoka kwenye kodian (katika upande wa kushoto wa skrini) na kuzidondosha kwenye eneo la turubai (chini ya taarifa za mchakato). Tambua mshale kutoka mwanzo wa mchakato (duara la kijani) kwenda kwenye Shughuli imewekwa kiotomatiki. (Hii ni Shughuli ya kwanza na Maongezi yake ya kwanza ya Shughuli ni skrini ya kwanza ambayo itaonyeshwa wakati mchakato unaanza).

Figure 5.18. Kokota shughuli ya kwanza kwenye turubai



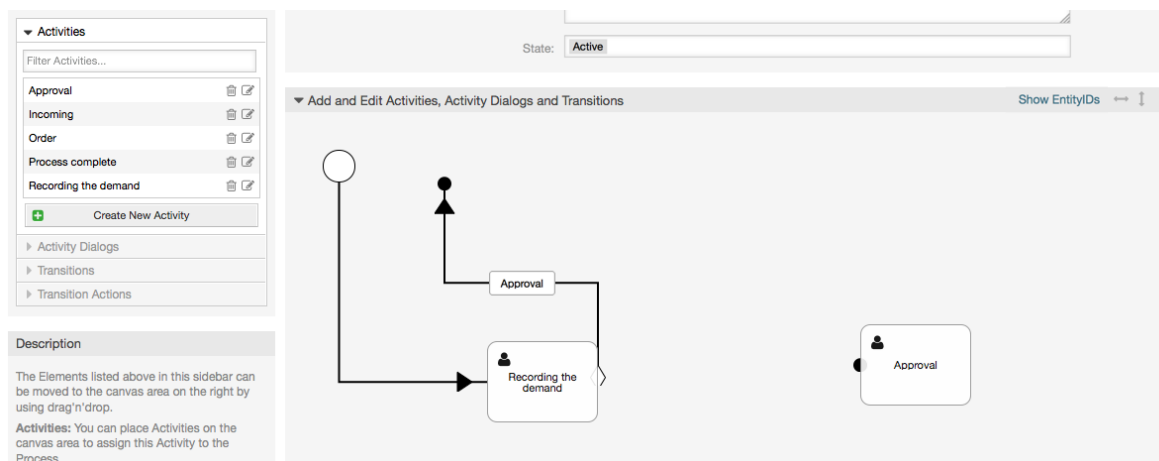
Next, drag another Activity into the canvas too. Now we will have two Activities in the canvas. The first one is connected to the start point and the second has no connections. You can hover the mouse over each activity to reveal their own Activity Dialogs.

Figure 5.19. Kokota shughuli ya pili kwenye turubai



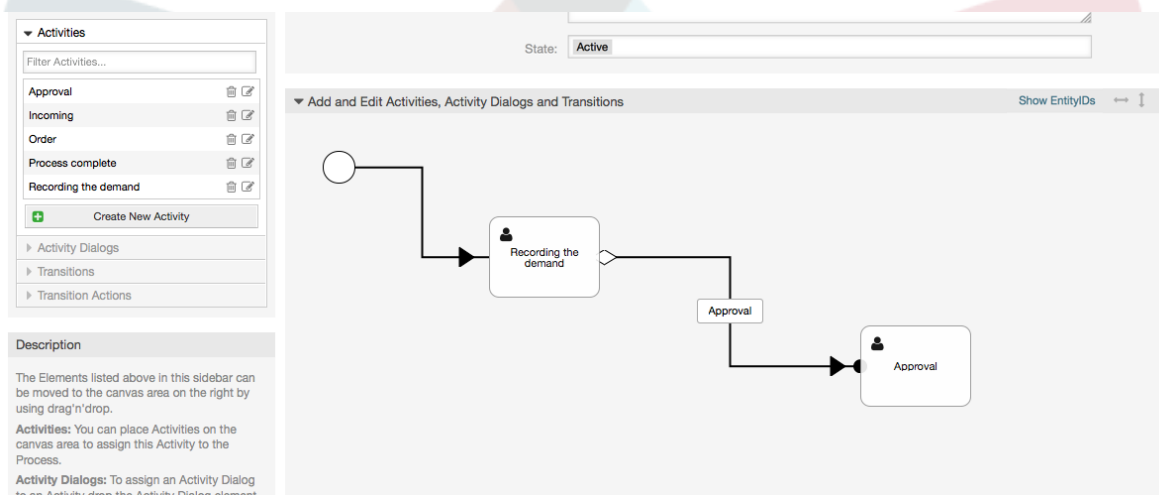
Then let's create the "Path" (connection) between this two Activities, for this we will use the Transitions. Click on Transitions in the accordion drag a Transition and drop it inside the first Activity. Notice that the Activity changes its color indicating that the Transition is attached. As soon as the Transition is dropped the end point of the Transition arrow will be placed next to the process start point. Drag the Transition arrow end point and drop it inside the other Activity to create the connection between the Activities.

Figure 5.20. Kokota Mapito kwenda kwenye turubai



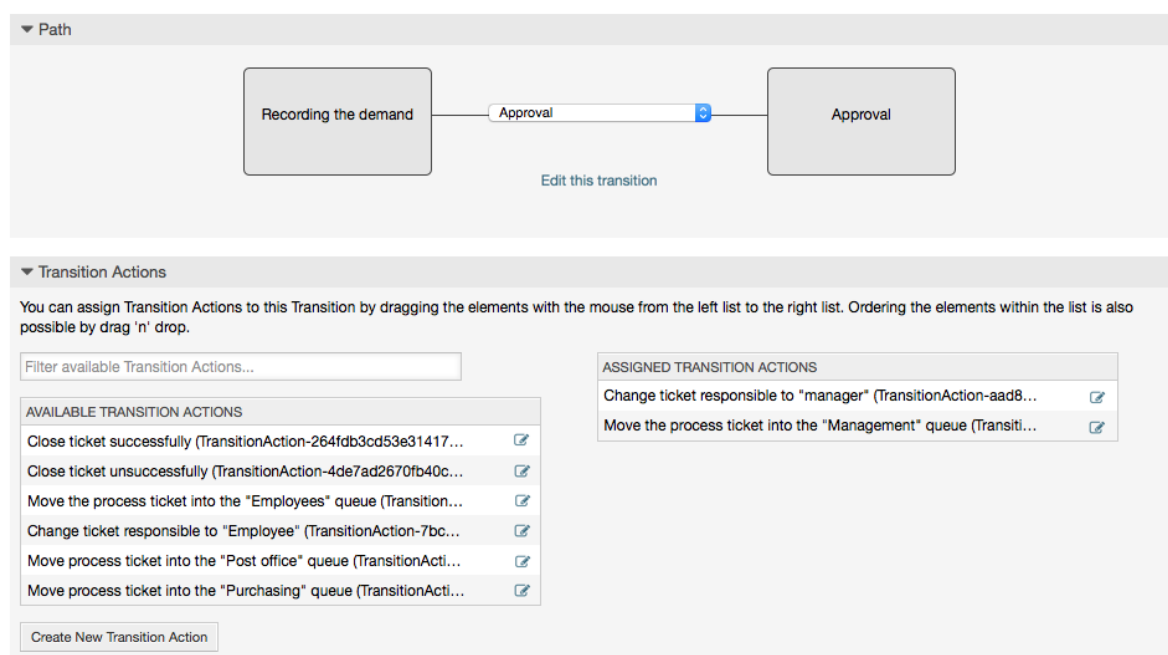
Sasa "Njia" kati ya vitendo imefafanuliwa, kisha tunahitaji kuweka Vitendo vya Mpito chini ya Mpito, bofya marambili lebo ya mpito (ndani ya turubai), hii itafungua dirisha ibukizi jipya.

Figure 5.21. Unganisha shughuli kwa kutumia Mapito



Kokota Vitendo vya Mpito vinavyotakiwa kutoka bwawa la Vitendo vya Mpito Vinavyopatikana na dondoshwa katika bwawa la Vitendo vya Mpito Vilivyogawiwa kisha bofya kitufe cha kuwasilisha.

Figure 5.22. Vitendo vya mpito vilivyogawiwa



Kisha tukirudi kwenye skrini ya kuhariri mchakato wa msingi bofya kwenye kitufe cha kuhifadhi chini ya turubai kuhifadhi mabadiliko mengine yote.

Complete the "path" adding the following Activities, Transitions and Transition Actions:

Mahitaji yanarekodiwa mpaka "Kibali"

- Starting point: Activity: "Recording the demand" (A1)
- Possible Transition: "Approval" (T1)
 - If the condition of this activity is fulfilled, the ticket will move to Activity: "Approval" (A2)
 - Kwa nyongeza, Vitendo Vya Mpito vifwatavyo vina tekelezeka:
 - "Peleka tiketi ya mchakato kwa Foleni ya 'Usimamizi' (TA1)
 - "Badilisha tiketi inayowajibika kwa 'manager'" (TA2)

The Activity: "Recording the demand" (A1) is a defined step of the process ticket, where there is the possibility for the Transition: "Approval" (T1). If this applies, the ticket will move to the next Activity: "Approval" (A2), and the Transition Actions: "Move the process ticket into the 'Management' queue" (TA1) and "Change ticket responsible to 'manager'" (TA2) are executed. In the Activity: "Approval" (A2), the Activity Dialogs: "Approval denied" (AD2) and "Approved" (AD3) are available.

Kibali

- Pointi ya Kuanza: Shughuli "Kibali" (A2)
- Mapito yawezekanayo:
 - "Kibali kimekataliwa" (T2)
 - If this matches, the process ticket will move to Activity: "Process complete" (A5).
 - Kwa nyongeza, Vitendo Vya Mpito vifwatavyo vina tekelezeka:

- "Move process ticket into the 'Employees' queue" (TA3)
- "Badilisha tiketi inayowajibika kwa 'Mwajiriwa'" (TA4)
- "Kufunga tiketi hakujaifanikiwa" (TA8)
- "Kubaliwa" (T3)
- Kama hii inalingana, tiketi ya mchakato itapelekwa kwa Shughuli: "Oda" (A3).
- Kwa nyongeza, Kitendo cha Mpito kifwatacho kitatekelezwa.
 - "Peleka tiketi ya mchakato kwa Foleni ya 'Manunuzi'" (TA5)

Tunaweza kuona kutoka kwenye shughuli za sasa, ambayo inafafanua hatua katika mchakato wa tiketi, kuna uwezekano mmoja au zaidi wa mpito ambao una lengo moja la shughuli (na ikiwezekana Kitendo kimoja au zaidi cha mpito)

Oda

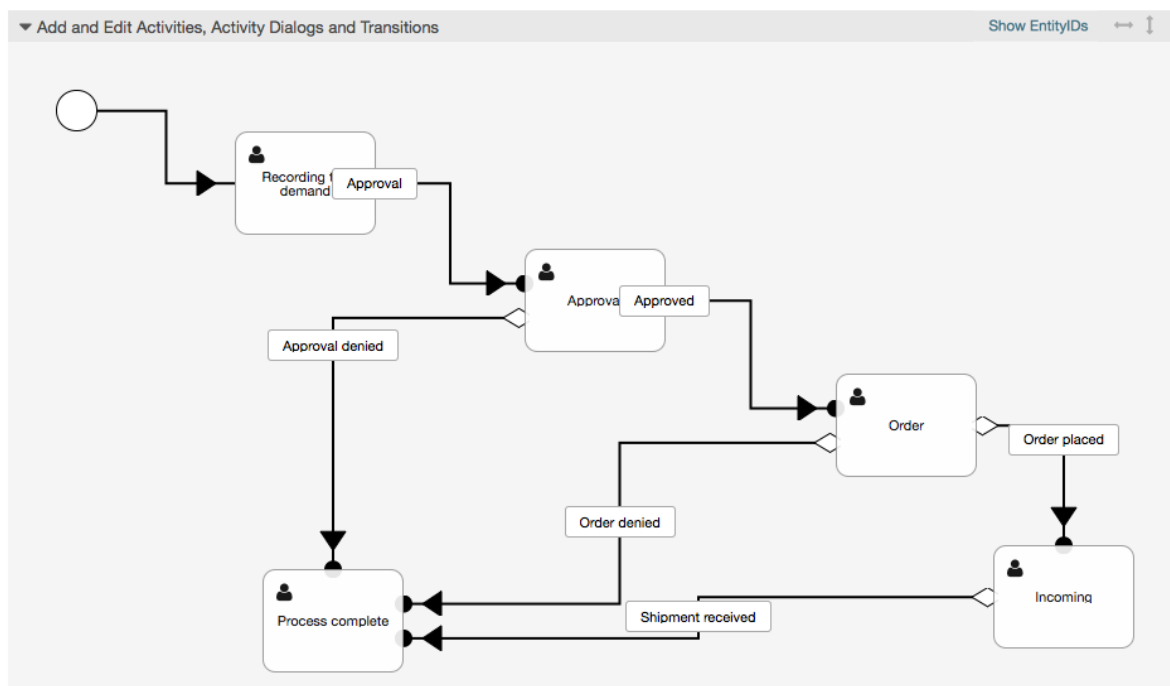
- Pointi ya kuanza: Shughuli "Oda" (A3)
- Mapito yawezekanayo:
 - "Oda imekataliwa" (T4)
 - If this matches, the process ticket will move to Activity: "Process complete" (A5).
 - Kwa nyongeza, Vitendo Vya Mpito vifwatavyo vina tekelezeka:
 - "Move process ticket into the 'Employees' queue" (TA3)
 - "Seti tiketi yenye jukumu kwa 'Mteja'" (TA4)
 - "Kufunga tiketi hakujaifanikiwa" (TA8)
 - "Oda imewekwa" (T5)
 - If this matches, the process ticket will move to Activity: "Incoming" (A4).
 - Kwa nyongeza, Kitendo cha Mpito kifwatacho kitatekelezwa.
 - "Peleka tiketi za mchakato kwenye Foleni ya 'Ofisi ya posta'" (TA6)

"Zinazolingia"

- Pointi ya Kuanza: Shughuli "Zinazolingia" (A4)
- Mapito yawezekanayo:
 - "Vilivyosafirishwa vimepokelewa" (T6)
 - If this matches, the process ticket will move to Activity: "Process complete" (A5).
 - Kwa nyongeza, Vitendo Vya Mpito vifwatavyo vina tekelezeka:
 - "Move process ticket into the 'Employees' queue" (TA3)
 - "Seti tiketi yenye jukumu kwa 'Mteja'" (TA4)
 - "Kufunga tiketi kumefanikiwa" (TA7)

Njia kamili ya mchakato wa kuoda vitabu itaonekana kama hivi:

Figure 5.23. Njia kamili ya mchakato wa kuoda vitabu



After you finish the process path please click on "Save" button in the lower part of the canvas and then click on "Synchronize All Processes" button. This will gather all processes information from the Database and create a cache file (in Perl language). This cache file is actually the processes configuration that the system will use to create or use process tickets.

Mabadiliko yeyote yaliyofanyika kwenye michakato (katika kiolesura michoro cha mtumiaji) yatahitaji kurudia kulandanisha faili la hifadhi muda ili mabadiliko yawepo kwenye mfumo.

Pia inawezekana kuagiza mchakato mzima kutoka faili la YAML, lakini ni muhimu kutengeneza Sehemu zote Zinazobadilika, Watumiaji, Foleni, na kadh. ambazo zinahitajika na kila mchakato kabla ya kuagiza.

Tambua kwamba kama mchakato unahitaji utumiaji wa ACL hizo zinahitaji pia kusetiwa kwa mikono.

The following is the complete YAML file for the book ordering process example:

```

---
Activities:
  A1:
    ActivityDialogs:
      - AD1
    ChangeTime: 2012-11-23 14:49:22
    Config:
      ActivityDialog:
        1: AD1
    CreateTime: 2012-11-23 11:49:38
    EntityID: A1
    ID: 151
    Name: Recording the demand
  A2:
    ActivityDialogs:
      - AD2
      - AD3
    ChangeTime: 2012-12-13 00:55:12
    Config:

```

```

    ActivityDialog:
      1: AD2
      2: AD3
    CreateTime: 2012-11-23 11:50:11
    EntityID: A2
    ID: 152
    Name: Approval
  A3:
    ActivityDialogs:
      - AD4
      - AD5
    ChangeTime: 2012-11-23 18:12:14
    Config:
      ActivityDialog:
        1: AD4
        2: AD5
    CreateTime: 2012-11-23 11:50:35
    EntityID: A3
    ID: 153
    Name: Order
  A4:
    ActivityDialogs:
      - AD6
    ChangeTime: 2012-11-23 18:12:35
    Config:
      ActivityDialog:
        1: AD6
    CreateTime: 2012-11-23 11:51:00
    EntityID: A4
    ID: 154
    Name: Incoming
  A5:
    ActivityDialogs: []
    ChangeTime: 2012-11-23 11:51:33
    Config: {}
    CreateTime: 2012-11-23 11:51:33
    EntityID: A5
    ID: 155
    Name: Process complete
  ActivityDialogs:
    AD1:
      ChangeTime: 2012-12-06 02:16:21
      Config:
        DescriptionLong: ''
        DescriptionShort: Recoding the demand
        FieldOrder:
          - DynamicField_Author
          - DynamicField_ISBN
          - DynamicField_Title
          - DynamicField_Status
        Fields:
          DynamicField_Author:
            DefaultValue: ''
            DescriptionLong: ''
            DescriptionShort: ''
            Display: 1
          DynamicField_ISBN:
            DefaultValue: ''
            DescriptionLong: ''
            DescriptionShort: ''
            Display: 1
          DynamicField_Status:
            DefaultValue: ''
            DescriptionLong: ''
            DescriptionShort: ''
            Display: 1
          DynamicField_Title:
            DefaultValue: ''
            DescriptionLong: ''
            DescriptionShort: ''
            Display: 1
      Interface:

```

```

- AgentInterface
Permission: ''
RequiredLock: 0
SubmitAdviceText: ''
SubmitButtonText: ''
CreateTime: 2012-11-23 14:34:43
EntityID: AD1
ID: 154
Name: Recording the demand
AD2:
ChangeTime: 2012-11-23 14:57:41
Config:
  DescriptionLong: ''
  DescriptionShort: Approval denied
  FieldOrder:
    - Article
    - DynamicField_Status
  Fields:
    Article:
      Config:
        ArticleType: note-internal
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
        Display: 1
      DynamicField_Status:
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
        Display: 1
    Interface:
      - AgentInterface
      Permission: ''
      RequiredLock: 0
      SubmitAdviceText: ''
      SubmitButtonText: Deny Request
      CreateTime: 2012-11-23 14:36:39
      EntityID: AD2
      ID: 155
      Name: Approval denied
AD3:
ChangeTime: 2012-12-14 03:14:23
Config:
  DescriptionLong: ''
  DescriptionShort: Approved
  FieldOrder:
    - DynamicField_Status
  Fields:
    DynamicField_Status:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    Interface:
      - AgentInterface
      Permission: ''
      RequiredLock: 0
      SubmitAdviceText: ''
      SubmitButtonText: Approve Request
      CreateTime: 2012-11-23 14:37:35
      EntityID: AD3
      ID: 156
      Name: Approved
AD4:
ChangeTime: 2012-11-23 14:58:52
Config:
  DescriptionLong: ''
  DescriptionShort: Order rejected
  FieldOrder:
    - Article
    - DynamicField_Status
  Fields:

```



```
Article:
  Config:
    ArticleType: note-internal
    DefaultValue: ''
    DescriptionLong: ''
    DescriptionShort: ''
    Display: 1
  DynamicField_Status:
    DefaultValue: ''
    DescriptionLong: ''
    DescriptionShort: ''
    Display: 1
Interface:
  - AgentInterface
Permission: ''
RequiredLock: 0
SubmitAdviceText: ''
SubmitButtonText: Reject Order
CreateTime: 2012-11-23 14:38:48
EntityID: AD4
ID: 157
Name: Order rejected
AD5:
  ChangeTime: 2012-12-06 02:20:12
  Config:
    DescriptionLong: ''
    DescriptionShort: Order placed
    FieldOrder:
      - DynamicField_DeliveryDate
      - DynamicField_Price
      - DynamicField_Supplier
      - DynamicField_Status
  Fields:
    DynamicField_DeliveryDate:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Price:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Status:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Supplier:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
Interface:
  - AgentInterface
Permission: ''
RequiredLock: 0
SubmitAdviceText: ''
SubmitButtonText: Place Order
CreateTime: 2012-11-23 14:41:28
EntityID: AD5
ID: 158
Name: Order placed
AD6:
  ChangeTime: 2012-11-23 14:42:43
  Config:
    DescriptionLong: ''
    DescriptionShort: Shipment received
    FieldOrder:
      - DynamicField_DateOfReceipt
      - DynamicField_Status
  Fields:
```

```
DynamicField_DateOfReceipt:
  DefaultValue: ''
  DescriptionLong: ''
  DescriptionShort: ''
  Display: 1
DynamicField_Status:
  DefaultValue: ''
  DescriptionLong: ''
  DescriptionShort: ''
  Display: 1
Interface:
  - AgentInterface
Permission: ''
RequiredLock: 0
SubmitAdviceText: ''
SubmitButtonText: ''
CreateTime: 2012-11-23 14:42:43
EntityID: AD6
ID: 159
Name: Shipment received
Process:
Activities:
  - A1
  - A2
  - A3
  - A4
  - A5
ChangeTime: 2012-12-06 02:31:59
Config:
  Description: The process to order a book
  Path:
    A1:
      T1:
        ActivityEntityID: A2
        TransitionAction:
          - TA2
          - TA1
    A2:
      T2:
        ActivityEntityID: A5
        TransitionAction:
          - TA3
          - TA4
          - TA8
    T3:
      ActivityEntityID: A3
      TransitionAction:
        - TA5
    A3:
      T4:
        ActivityEntityID: A5
        TransitionAction:
          - TA3
          - TA4
          - TA8
    T5:
      ActivityEntityID: A4
      TransitionAction:
        - TA6
    A4:
      T6:
        ActivityEntityID: A5
        TransitionAction:
          - TA3
          - TA4
          - TA7
    A5: {}
  StartActivity: A1
  StartActivityDialog: AD1
CreateTime: 2012-11-23 11:45:12
EntityID: P1
ID: 94
```

```
Layout:
A1:
  left: 172
  top: 63
A2:
  left: 402
  top: 156
A3:
  left: 649
  top: 255
A4:
  left: 774
  top: 391
A5:
  left: 194
  top: 410
Name: Book ordering
State: Active
StateEntityID: S1
TransitionActions:
- TA1
- TA2
- TA3
- TA4
- TA8
- TA5
- TA3
- TA4
- TA8
- TA6
- TA3
- TA4
- TA7
Transitions:
- T1
- T2
- T3
- T4
- T5
- T6
TransitionActions:
TA1:
  ChangeTime: 2012-11-23 16:01:37
  Config:
    Config:
      Queue: Management
      Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
  CreateTime: 2012-11-23 15:50:59
  EntityID: TA1
  ID: 61
  Name: Move the process ticket into the "Management" queue
TA2:
  ChangeTime: 2012-11-23 16:02:12
  Config:
    Config:
      Responsible: manager
      Module: Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet
  CreateTime: 2012-11-23 15:58:22
  EntityID: TA2
  ID: 62
  Name: Change ticket responsible to "manager"
TA3:
  ChangeTime: 2012-11-24 14:27:02
  Config:
    Config:
      Queue: Employees
      Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
  CreateTime: 2012-11-23 16:02:54
  EntityID: TA3
  ID: 63
  Name: Move the process ticket into the "Employees" queue
TA4:
```

```
ChangeTime: 2012-11-23 16:04:06
Config:
  Responsible: Employee
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet
CreateTime: 2012-11-23 16:04:06
EntityID: TA4
ID: 64
Name: Change ticket responsible to "Employee"
TA5:
ChangeTime: 2012-12-06 02:18:34
Config:
  Queue: Purchasing
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 16:04:54
EntityID: TA5
ID: 65
Name: Move process ticket into the "Purchasing" queue
TA6:
ChangeTime: 2012-12-06 02:18:48
Config:
  Queue: Post office
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 16:06:20
EntityID: TA6
ID: 66
Name: Move process ticket into the "Post office" queue
TA7:
ChangeTime: 2012-12-06 02:29:55
Config:
  State: closed successful
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketStateSet
CreateTime: 2012-12-06 02:29:27
EntityID: TA7
ID: 67
Name: Close ticket successfully
TA8:
ChangeTime: 2012-12-06 02:31:12
Config:
  State: closed unsuccessful
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketStateSet
CreateTime: 2012-12-06 02:31:12
EntityID: TA8
ID: 68
Name: Close ticket unsuccessfully
Transitions:
T1:
ChangeTime: 2012-11-23 15:12:20
Config:
  Condition:
    1:
      Fields:
        DynamicField_Status:
          Match: Approval
          Type: String
      Type: and
    ConditionLinking: and
  CreateTime: 2012-11-23 11:53:52
  EntityID: T1
  ID: 94
  Name: Approval
T2:
ChangeTime: 2012-11-23 15:12:50
Config:
  Condition:
    1:
      Fields:
        DynamicField_Status:
```

```
        Match: Approval denied
        Type: String
    Type: and
    ConditionLinking: and
    CreateTime: 2012-11-23 11:54:26
    EntityID: T2
    ID: 95
    Name: Approval denied
T3:
    ChangeTime: 2012-11-23 15:13:29
    Config:
        Condition:
            1:
                Fields:
                    DynamicField_Status:
                        Match: Approved
                        Type: String
                Type: and
            ConditionLinking: and
            CreateTime: 2012-11-23 11:54:54
            EntityID: T3
            ID: 96
            Name: Approved
T4:
    ChangeTime: 2012-11-23 15:14:08
    Config:
        Condition:
            1:
                Fields:
                    DynamicField_Status:
                        Match: Order denied
                        Type: String
                Type: and
            ConditionLinking: and
            CreateTime: 2012-11-23 11:55:25
            EntityID: T4
            ID: 97
            Name: Order denied
T5:
    ChangeTime: 2012-11-23 18:30:33
    Config:
        Condition:
            1:
                Fields:
                    DynamicField_Status:
                        Match: Order placed
                        Type: String
                Type: and
            ConditionLinking: and
            CreateTime: 2012-11-23 11:56:15
            EntityID: T5
            ID: 98
            Name: Order placed
T6:
    ChangeTime: 2012-11-23 15:15:30
    Config:
        Condition:
            1:
                Fields:
                    DynamicField_Status:
                        Match: Shipment received
                        Type: String
                Type: and
            ConditionLinking: and
            CreateTime: 2012-11-23 11:56:48
            EntityID: T6
            ID: 99
            Name: Shipment received
```

2.4. Rejea ya sanidi ya mchakato

2.4.1. Mchakato

Mchakato unatengeneza njia ya mtiririko wa kazi/mchakato. Pointi za njia katika mwelekeo huu zinaweza kuwa Shughuli au Mapito, tutaongelea haya baadaye.

2.4.1.1. Sanidi ya mchakato

The Process configuration can be done in the file Kernel/Config.pm but it is strongly recommended to create new files like Kernel/Config/Files/MyProcess.pm. Notice that the GUI generates the file Kernel/Config/File/ZZZProcessManagement please avoid to use that filename, otherwise it will be overwritten when you sync processes. Let's see an example process configuration (from process cache file):

```
$Self->{'Process'} = {
  'P1' => {
    Name           => 'Book order',
    CreateTime     => '16-02-2012 13:37:00',
    CreateBy       => '1',
    ChangeTime     => '17-02-2012 13:37:00',
    ChangeBy       => '1',
    State          => 'Active',
    StartActivity  => 'A1',
    StartActivityDialog => 'AD1',
    Path => {
      'A1' => {
        'T1' => {
          ActivityEntityID => 'A2',
        },
      },
      'A2' => {
        'T2' => {
          ActivityEntityID => 'A3',
        },
      },
    },
  },
  'P2' => {
    Name           => 'IT order',
    CreateTime     => '26-02-2012 13:37:00',
    CreateBy       => '1',
    ChangeTime     => '27-02-2012 13:37:00',
    ChangeBy       => '1',
    State          => 'Active',
    StartActivity  => 'A2',
    StartActivityDialog => 'AD2',
    Path => {
      'A2' => {
        'T3' => {
          ActivityEntityID => 'A4',
        },
      },
    },
  },
};
```

2.4.1.2. Jina

Jina la mchakato, hii inaweza kuchaguliwa na wakala wakati wa kutengeneza tiketi ya mchakato mpya.

2.4.1.3. Tengeneza muda

Muda ambao mchakato ulitengenezwa.

2.4.1.4. Imetengenezwa na

UID ya mtumiaji anayetengeneza mchakato.

2.4.1.5. Badilisha muda

Muda ambao mchakato ulibadilishwa.

2.4.1.6. Ilibadilishwa na

UID ya mtumiaji aliyeweka mabadiliko ya mwisho.

2.4.1.7. Hali

Inafafanua hali ya mchakato. Thamani ziwezekanazo:

- 'Amilifu' ni michakato yote ambayo inaweza kutumika katika tiketi mpya za mchakato.
- 'KwanjukaMbali' ni michakato ambayo haiwezi kuchaguliwa tena kwa tiketi mpya, lakini tiketi zilizopo zinaweza kutumia huo mchakato.
- 'Isiyo Amilifu' michakato inalemazwa na haiwezi kutumika kwa tiketi mpya au zilizopo.

2.4.1.8. AnzaShughuli

Wakati wa kutengeneza mchakato mpya wa tiketi, lazima ufafanue ki AnzaShughuli. Mara tu tiketi itakapotengenezwa, hiishughuli ita setiwa na kutumika kama msingi wa kaguzi za kwanza za mpito.

2.4.1.9. AnzaShughuliMaongezi

Kwa tiketi mpya, ki AnzaShughuliMaongezi lazima kifafanuliwe. Hii itaonyeshwa wakati wa kutengeneza mchakato mpya wa tiketi (baada ya mchakato kuchaguliwa). Hapa tiketi bado haipo, itatengenezwa baada ya kuwasilisha ki AnzaShughuliMaongezi.

2.4.1.10. Njia

Njia ina muundo wa Shughuli, na Mapito yanayowezekana kati yao, kwa ajili ya mchakato wa sasa. Na pia Vitendo vya Mpito ambavyo vinatokea wakati wa Mpito. Hii inadhibiti mwelekeo ambao tiketi ya mchakato itachukua. Mfano:

```
'A1' => {
  'T1' => {
    ActivityEntityID => 'A2',
  },
  'T2' => {
    ActivityEntityID => 'A3',
  },
  'T3' => {
    ActivityEntityID => 'A4',
    TransitionAction => ['TA1', 'TA2'],
  },
},
```

Kama tiketi ya mchakato iko kwenye shughuli 'A1', ina njia tatu zinazowezekana kwenda kwenye Shughuli nyingine. Kwenye Mapito 'T1' kwenda 'T3', masharti yamefafanuliwa, ambayo tiketi ya mchakato inabidi iyatimize ili ihamie kwenye Shughuli nyingine.

If in this case all the values of the process ticket and its dynamic fields that are needed for the Transition 'T2' are correct, the ticket will be moved from Activity 'A1' to 'A3'. After an ActivityDialog is submitted, or any other change is made to a ticket, it will be checked

for possible Transitions from the current Activity. If multiple Transitions are possible, the first one will be used (based on numerical sorting of the TransitionIDs).

Kwa nyongeza, inawezekana kugawia Vitendo vya Mpito kwa Mapito katika usanidi wa Njia. Hizi moduli ambazo zinatekelezwa baada ya mpito uliofanikiwa. Inabidi zibainishwe katika fomu ya mkusanyiko kama kwenye mfano, tutaongelea kwa undani baadaye.

2.4.2. Shughuli

Shughuli ina Maongezi ya Shughuli ya aina moja au zaidi na inatengeneza 'hatua' katika mchakato. Maongezi ya Shughuli yote ya Shughuli ya sasa yanaonyeshwa katika kuza tiketi na inaweza kutumika mpaka masharti ya Mpito yatimizwe.

2.4.2.1. Sanidi ya shughuli

Tuone mfano wa sanidi ya shughuli:

```
$Self->{'Process::Activity'} =
{
  'A1' => {
    Name      => 'Activity 1 optional',
    CreateTime => '16-02-2012 13:37:00',
    CreateBy  => '1',
    ChangeTime => '17-02-2012 13:37:00',
    ChangeBy  => '1',
    ActivityDialog => {
      1 => 'AD1',
    },
  },
  'A2' => {
    Name      => 'Activity 2 optional',
    CreateTime => '16-02-2012 13:37:00',
    CreateBy  => '1',
    ChangeTime => '17-02-2012 13:37:00',
    ChangeBy  => '1',
    ActivityDialog => {
      1 => 'AD5',
      2 => 'AD6',
      3 => 'AD1',
    },
  },
},
};
```

2.4.2.2. Jina

Jina la shughuli.

2.4.2.3. Tengeneza muda

Muda ambao ilitengenezwa.

2.4.2.4. Imetengenezwa na

UID ya mtumiaji aliyetengeneza shughuli.

2.4.2.5. Badilisha muda

Muda wa mwisho ilipo badilishwa

2.4.2.6. Ilibadilishwa na

UID ya mtumiaji wa mwisho aliyebadilisha shughuli.

2.4.2.7. MaongeziShughuli

Maongezi ya Shughuli yana orodha ya maongezi ya shughuli ambayo yanapatikana katika hii shughuli. Maongezi yote ya Shughuli ya sasa yanaonekana katika Kuza tiketi. Oda yao inasetiwa na oda ya kwenye sanidi, hapa 'AD5' inaonyeshwa kabla ya 'AD6' na 'AD1'.

2.4.3. MaongeziShughuli

Maongezi ya Shughuli ni skrini maalumu na inaweza kutumika katika shughuli mbali mbali.

2.4.3.1. Sanidi ya MaongeziShughuli

Let's see an example config:

```
$Self->{'Process::ActivityDialog'} = {
  'AD1' => {
    Name           => 'ActivityDialog 1 optional',
    DescriptionShort => 'Basic info',
    DescriptionLong => 'Please insert the necesesary basic information for IT orders',
    CreateTime     => '28-02-2012 13:37:00',
    CreateBy      => '1',
    ChangeTime    => '29-02-2012 13:37:00',
    ChangeBy      => '1',
    Fields => {
      PriorityID => {
        DescriptionShort => 'Priority ID',
        DescriptionLong  => 'Enter the priority here',
        Display          => 2,
      },
    },
    FieldOrder    => [ 'PriorityID' ],
    SubmitAdviceText => 'Note: If you submit the form...',
    SubmitButtonText => 'Send request',
  },
  'AD2' => {
    Name           => 'ActivityDialog 2 optional',
    DescriptionShort => 'Basic info',
    DescriptionLong => 'Please insert the necesesary basic information for Book
orders',
    CreateTime     => '28-02-2012 13:37:00',
    CreateBy      => '1',
    ChangeTime    => '29-02-2012 13:37:00',
    ChangeBy      => '1',
    Fields => {
      StateID => {
        DescriptionShort => 'State ID',
        DescriptionLong  => 'Enter the state here',
        Display          => 2,
        DefaultValue    => '2',
      },
      Queue => {
        DescriptionShort => 'Queue ID',
        DescriptionLong  => 'Enter the queue here',
        Display          => 2,
        DefaultValue    => 'Raw',
      },
      Title => {
        DescriptionShort => 'Title',
        DescriptionLong  => 'Enter the title here',
        Display          => 1,
        DefaultValue    => 'Default Title',
      },
      DynamicField_Anzahl => {
        DescriptionShort => 'Amount',
        DescriptionLong  => 'Enter the amount here',
        Display          => 2,
        DefaultValue    => '4',
      },
    },
  },
}
```

```

    },
    FieldOrder      => [ 'DynamicField_Anzahl', 'StateID', 'Queue', 'Title' ],
    SubmitAdviceText => 'Note: If you submit the form...',
    SubmitButtonText => 'Send request',
  },
};

```

2.4.3.2. Jina

Jina la Maongezi Shughuli.

2.4.3.3. Tengeneza muda

Muda ambao ilitengenezwa.

2.4.3.4. Imetengenezwa na

UID ya mtumiaji aliyetengeneza haya Maongezi Shughuli.

2.4.3.5. Badilisha muda

Muda wa mwisho ilipo badilishwa

2.4.3.6. Ilibadilishwa na

UID ya mtumiaji wa mwisho aliyebadilisha haya Maongezi Shughuli.

2.4.3.7. Sehemu

Ina sehemu zote ambazo zinaweza kuonyeshwa katika Maongezi ya Shughuli haya. Sehemu zifuatazo zinaweza kutumika sasa:

```

Title
State
StateID
Priority
PriorityID
Lock
LockID
Queue
QueueID
Customer
CustomerID
CustomerNo
CustomerUserID
Owner
OwnerID
Type
TypeID
SLA
SLAID
Service
ServiceID
Responsible
ResponsibleID
PendingTime
DynamicField_$FieldName # for all dynamic fields

```

Mfano wa sanidi yen

```

StateID => {
  DescriptionShort => 'State ID',
  DescriptionLong  => 'Enter the state here',
}

```

```

    Display      => 2,
    DefaultValue => '2',
  },

```

The field "Article" is a special case. If it is present in a "Fields" configuration, the Activity Dialog will contain a complete Richtext editor with subject field and attachment handling. The entered text will then be added to the ticket as an article and sent by email. Let's see an example Article field configuration:

```

Article => {
  DescriptionShort => 'Please insert your comment here.',
  DescriptionLong => '',
  Display         => 1,
  Config         => {
    ArticleType => 'note-internal',
    LabelSubject => '',
    LabelBody   => '',
  },
},

```

Tuangualie chaguo za usanidi wa sehemu:

2.4.3.7.1. MaelezoMafupi

Maelezo mafupi ya hiari yanayo onyeshwa na mada ya sehemu.

2.4.3.7.2. MaelezoMarefu

Maelezo marefu ya sehemu ya hiari yanayo onyeshwa pale kipanya kinapokuwa juu ya eneo, kwa mfano ushauri wa jinsi ya kujaza eneo.

2.4.3.7.3. Onyesh

Inadhibiti kama sehemu inaonekana au ni ya lazima. Thamani zinazowezezana:

- '0': sehemu haionekani. Hii inakuwa na manufaa kama thamani za sehemu zinatakiwa kusetiwa kiotomatiki. ThamaniChaguo-msingi iliyosanidiwa itahifadhiwa katika kesi hii.
- '1': sehemu inaonekana, lakini ni ya hiari.
- '2': field is visible and mandatory. The following fields can only be invisible or mandatory:

```

QueueID
Queue
State
StateID
Lock
LockID
Priority
PriorityID
Type
TypeID

```

Kama sehemu zimesanidiwa kama za hiari, na hakuna thamani iliyowasilishwa na mtumiaji, Thamani Chaguo-msingi itahifadhiwa wakati Maongezi ya Shughuli yanawasilishwa na mtumiaji.

2.4.3.7.4. ThamaniChaguo-msingi

Kwa sehemu zenye 'Kitambulisho' (kama KitambulishoChaFoleni, KitambulishoChaMmiliki), hii inamaanisha Kitambulisho cha hifadhidata ya thamani. Kwa sehemu nyingine zisizo

na 'Kitambulisho' (kama Foleni, Mmiliki), ThamaniChaguo-msingi lazima iwe na thamani yenyewe. Mfano:

```
Queue => {
  DescriptionShort => 'Queue',
  DescriptionLong => 'Enter the queue here',
  Display          => 2,
  DefaultValue     => 'Raw',
},
```

2.4.3.8. OdaSehemu

Hapa mpangilio wa muonekano wa sehemu unasanidiwa. MUHIMU: Sehemu zizi-zoonekana lazima zisanidiwe hapa, kwa sababu sehemu zilizosanidiwa tu zitahusishwa wakati wa kuhifadhi. Sehemu ambazo hazijasanidiwa hazita hifadhiwa.

2.4.3.9. WasilishaNakalaUshauri

Nakala ya hiari kuonyeshwa juu ya kitufe cha kuwasilisha kwa msaada zaidi au nakala ya ushauri.

2.4.3.10. KitufeWasilishaNakala

Nakala ya kawaida ya hiari kwa ajili ya kitufe cha kuwasilisha.

2.4.4. Mpito

Mpito unachagua - kutegemeana na masharti yanayoweza kusanidiwa - njia gani katika Mchakato inachukuliwa, yaani Shughuli gani tiketi ya Mchakato inaweza kupelekwa.

2.4.4.1. Usanidi wa mpito

Tuone mfano:

```
$Self->{'Process::Transition'} = {
  'T1' => {
    Name => 'Transition 1',
    CreateTime => '14-03-2012 13:37:00', # optional
    CreateBy => '1', # optional
    ChangeTime => '15-03-2012 13:37:00', # optional
    ChangeBy => '15-03-2012 13:37:00', # optional
    Condition => {
      Cond1 => {
        Fields => {
          StateID => {
            Type => 'String',
            Match => '1',
          },
        },
      },
    },
  },
  'T2' => {
    Name => 'Transition 2 optional',
    CreateTime => 'DATE', # optional
    CreateBy => 'USERID', # optional
    ChangeTime => 'DATE', # optional
    ChangeBy => 'USERID', # optional
    Condition => {
      Cond1 => {
        Queue => 'Raw',
        DynamicField_Farbe => '2',
        DynamicField_Anzahl => '1',
      },
    },
  },
},
```

```

    },
  },
};

```

2.4.4.2. Jina

Jina la mpito

2.4.4.3. Tengeneza muda

Muda iliyotengenezwa.

2.4.4.4. Imetengenezwa na

UID ya mtumiaji aliyetengeneza huu Mpito.

2.4.4.5. Badilisha muda

Muda wa mwisho ilipobadilishwa

2.4.4.6. Ilibadilishwa na

UID ya mtumiaji wa mwisho aliyebadilisha huu Mpito.

2.4.4.7. Sharti

Contains all conditions that are necessary for this Transition to take effect. Example:

```

Condition => {
  Type => 'and',
  Cond1 => {
    Type => 'and',
    Fields => {
      StateID => {
        Type => 'String',
        Match => '1',
      },
      DynamicField_Marke => {
        Type => 'String',
        Match => 'VW',
      },
    },
  },
  Cond2 => {
    Type => 'and',
    Fields => {
      Queue => {
        Type => 'String',
        Match => 'Raw',
      },
    },
  },
},

```

Tuangualie sharti la usanidi kwa undani.

2.4.4.7.1. Aina (Sharti)

Inaweka bayana uhusiano wa elementi za masharti kwa nyenzake. Thamani ziwezekana-
zo:

- 'na': Hili ni chaguo-msingi. Masharti yote lazima yafikiwe ili mpito ufanyike.
- 'au': Angalau sharti moja lilingane.

- 'xor': Lazima sharti moja tu lifanane, siyo zaidi.

2.4.4.7.2. Sharti1

Hili ni jina la mfano wa sharti. Inaweza kuchaguliwa kwa uhuru. Masharti yana tathminiwa katika oda iliyo pangwa.

2.4.4.7.3. Aina (Sharti)

Inaweka bayana uhusiano baina ya vipimo vya maeneo binafsi ya hili sharti. Thamani ziwezekanazo:

- 'na': Hili ni chaguo-msingi. Vipimo vya maeneo yote lazima vifanane ili sharti lilingane.
- 'or' Angalau kipimo kimoja cha sehemu kifanane
- 'xor': Lazima jatribio moja la eneo lifanane sio zaidi.

2.4.4.7.4. Sehemu

Specifies the particular fields whose values should be tested. From our example:

```
Fields => {  
  StateID => {  
    Type => 'String',  
    Match => '1',  
  },  
}
```

2.4.4.7.5. IDyaHali

Example of a field name. The following ticket fields can be used:

```
Title  
State  
StateID  
Priority  
PriorityID  
Lock  
LockID  
Queue  
QueueID  
Customer  
CustomerID  
CustomerNo  
CustomerUserID  
Owner  
OwnerID  
Type  
TypeID  
SLA  
SLAID  
Service  
ServiceID  
Responsible  
ResponsibleID  
DynamicField_FieldName # for all DynamicFields
```

Wakati wa kujaribisha sehemu kwa 'Kitambulisho' (kama Kitambulisho cha SLA), Kitambulisho cha hifadhidata ya sehemu kitatumika kwa ajili ya majaribio, kwa sehemu nyingine (kama SLA) thamani halisi inatumika kwa ajili ya majaribio.

2.4.4.7.6. Aina

Inaamua aina ya kipimo cha eneo. Thamani ziwezekanazo:

- 'Tungo': Inalinganisha thamani ya sehemu na tungo iliyobainishwa katika 'Lingana'. Zi-nalingana kama ziko sawa kabisa.
- 'Hash': Inafananisha thamani ya sehemu (hash) na hash iliyobainishwa kwenye 'Fanana-isha'. Thamani zote za hash lazima ziwe sawa.
- 'Mkusanyiko': Inalinganisha thamani ya sehemu (mkusanyiko) na mkusanyiko uliobain-ishwa kwenye 'Lingana'. Orodha zote mbili lazima ziwe sawa.
- 'Regex': Thamani ya sehemu inaweza kujaribiwa na usemi wa kawaida. Nimuhimu kwamba 'Fanana' ina *qr{xms}* kama sharti la msingi. Katikati ya mabano semi ya kawai-da halisi inaweza kuandikwa.
- 'Moduli': Inakuruhusu kutumia moduli ya Perl kwa ajili ya kukagua masharti. Kama ikirudisha 1, ukaguzi ulikua chanya. Unaweza kupata moduli ya mfano kwenye Ker-nel/System/ProcessManagement/TransitionValidation/ValidateDemo.pm.

2.4.5. Vitendo vya mpito

Vitendo vya Mpito ni vitendo ambavyo vinaweza kuchochewa baada ya mapito yaliy-ofanyika kikamilifu (pale tiketi ya mchakato inapohama kutoka shughuli moja hadi nyingine). Vitendo hivi vya Mpito vinaweza kutumika kufanya mabadiliko mengi kwenye tiketi, mf. badilisha Foleni au Mmiliki wa tiketi, na pia unaweza kutengeneza Vitendo vyako vya Mpito kufanya mabadiliko mengine magumu.

2.4.5.1. Usanidi wa Vitendo vya Mpito

Tuone mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Junk',
      UserID => 123,
    },
  },
};
```

2.4.5.2. Jina

Jina la Kitendo cha Mpito.

2.4.5.3. Moduli

Inaweza bayana moduli ya Perl itakayotumika.

2.4.5.4. Usanidi

This parameter contains all settings which are required for the module. Its content depends on the particular Transition Action module which is used. Please see the documentation of the individual modules for details. In our example, only the Queue must be specified. Nevertheless we are also sending UserID parameter, by using the UserID parameter. The transition action will be executed impersonating the user with the given UserID.

The use of UserID inside the "Config" parameter of a Transition Action is accepted by all Transition Actions (since OTRS 3.2.4). In this example it could be particularly important if the user that triggers the Transition does not have permissions to move the ticket to the queue 'Junk', while the user with the UserID 123 might have.

2.4.5.5. Kutumia Moduli za Vitendo vya Mpito kwa kurudia

To use Transition Action modules multiple times, just specify several Transition Actions in your configuration. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move Junk',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Junk',
    },
  },
  'TA2' => {
    Name => 'Queue Move Raw',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Raw',
    },
  },
};
```

Hapa moduli ile ile inatumika kuhamisha tiketi ya mchakato kwenda kwenye foleni 'Mbichi', na wakati mwingine kuhamisha kwenda kwenye foleni taka. Kitendo cha Mpito ambacho lazima kitumike kwa Mpito fulani kinajulikana kutoka kwenye mpangilio wa 'Njia' ya usanidi wa Mchakato.

2.4.5.6. Vitendo vya Mpito vilivyopo.

OTRS inakuja na Vitendo vya Mpito vingi unavyoweza kutumia katika michakato yako. Hapa utapata nyaraka zake na jinsi zilivyo sanidiwa.

2.4.5.6.1. SetiSehemuInayobadilika

Ina seti sehemu zinazobadilika moja au zaidi katika mchakato wa tiketi. mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set DynamicField MasterSlave to Master and Approved to 1',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::DynamicFieldSet',
    Config => {
      MasterSlave => 'Master',
      Approved => '1',
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChaMpito kilicho sanidiwa.

'MkuuMtumwa' na 'Kubaliwa' inatolewa kama mifano ya majina ya SehemuZinazobadilika. Thamani za sehemu ('Mkuu' na '1') itasetiwa na KitendoChaMpito hiki.

2.4.5.6.2. TengenezaTiketiMakala

Inatengeneza Makala na inaweza kutumika kutengeneza dokezo au majibu ya barua pepe. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Article Create Note Internal',
    Module =>
'Kernel::System::ProcessManagement::TransitionAction::TicketArticleCreate',
```



```

    Config => {
      ArticleType      => 'note-internal',                #
note-external|phone|fax|sms|...                                #
excluding any email type
      SenderType       => 'agent',                        #
agent|system|customer
      ContentType      => 'text/plain; charset=ISO-8859-15', # or
optional Charset & MimeType (e.g. 'text/html; charset=UTF-8')
      Subject          => 'some short description',        #
required
      Body             => 'the message text',            #
required
      HistoryType      => 'OwnerUpdate',                  #
EmailCustomer|Move|AddNote|PriorityUpdate|WebRequestCustomer|...
      HistoryComment   => 'Some free text!',              #
      From             => 'Some Agent <email@example.com>', #
not required but useful
      To               => 'Some Customer A <customer-a@example.com>', #
not required but useful
      Cc               => 'Some Customer B <customer-b@example.com>', #
not required but useful
      ReplyTo          => 'Some Customer B <customer-b@example.com>', #
not required
      InReplyTo        => '<asdasdasd.12@example.com>',    #
not required but useful
      References       => '<asdasdasd.1@example.com> <asdasdasd.12@example.com>', #
not required but useful
      NoAgentNotify    => 0,                              # if
you don't want to send agent notifications
      AutoResponseType => 'auto reply',                  #
auto reject|auto follow up|auto reply/new ticket|auto remove

      ForceNotificationToUserID => [ 1, 43, 56 ],        # if
you want to force somebody
      ExcludeNotificationToUserID => [ 43, 56 ],
      # if you want full exclude somebody from notifications,
      # will also be removed in To: line of article,
      # higher prio as ForceNotificationToUserID
      ExcludeMuteNotificationToUserID => [ 43, 56 ],
      # the same as ExcludeNotificationToUserID but only the
      # sending gets muted, agent will still shown in To:
      # line of article
    },
  },
};

```

'Jina' inaweka bayana jina la KitendoChaMpito kilicho sanidiwa. Inachaguliwa kwa uhuru, lakini inatakiwa kuakisi maana ya kitendo kilicho sanidiwa.

'Aina ya Makala' inafafanua aina ya makala itakayotengenezwa. Thamani ziwezekanazo: simu, faksi, ujumbe mfupi wa maneno, notisi-ndani, notisi-nje, na notisi-ripoti.

'SenderType' defines the sender type of the article. Possible values: agent, system, customer.

'AinaMaudhui' inafafanua aina ya maudhui ya makala. Thamani ziwezekanazo: 'nakala/ghafi; seti kibambo=ISO-8859-15' au seti kibambo nyingine yoyote halali na aina ya mime.

'Somo' inafafanua mada ya makala. Lazima.

'Kiini' inafafanua maudhui ya makala. Lazima.

'HistoryType' defines the type of the history entry. Possible values: AddNote, Archive-FlagUpdate, Bounce, CustomerUpdate, EmailAgent, EmailCustomer, EscalationResponseTimeNotifyBefore, EscalationResponseTimeStart, EscalationResponseTimeStop, EscalationSolutionTimeNotifyBefore, EscalationSolutionTimeStart, EscalationSolutionTimeS-

top, EscalationUpdateTimeNotifyBefore, EscalationUpdateTimeStart, EscalationUpdateTimeStop, FollowUp, Forward, Lock, LoopProtection, Merged, Misc, Move, NewTicket, OwnerUpdate, PhoneCallAgent, PhoneCallCustomer, PriorityUpdate, Remove, ResponsibleUpdate, SendAgentNotification, SendAnswer, SendAutoFollowUp, SendAutoReject, SendAutoReply, SendCustomerNotification, ServiceUpdate, SetPendingTime, SLAUpdate, StateUpdate, Subscribe, SystemRequest, TicketDynamicFieldUpdate, TicketLinkAdd, TicketLinkDelete, TimeAccounting, TypeUpdate, Unlock, Unsubscribe, WebRequestCustomer.

'HistoriaMaoni' inafafanua maudhui ya ingizo la historia.

'Kutoka', 'Kwa', 'Nakala' na 'JibuKwa' peleka anuani za barua pepe kwenye nukuu zilizobainishwa juu.

'KatikaMajibuKwa' na 'Marejeo' chukua Vitambulisho vya ujumbe wa barua pepe.

'HakunaWakalaArifu'-kama imesetiwa kuwa 1, taarifa ya barua pepe ya Wakala haitatumwa.

'MajibuAinaOtomatiki' inaweza kuchukua thamani zifuatazo: ufwatiliaji otomatiki, ukataaji otomatiki, uondoaji otomatiki, majibu otomatiki, majibu otomatiki/tiketi mpya.

'LazimishaTaarifaKwaKitambulichoChaMtumiaji', 'TenganishaTaarifaKwaKitambulishoChamtumiaji', 'TenganishaNyamazishaTaarifaKwaKitambulishoChaMtumiaji' zinaweza kuchukua orodha ya Vitambulisho vya Watumiaji ambao aidha wanapata taarifa kila wakati, hawapati taarifa au wanawekwa kwenye orodha kama wanapata taarifa lakini hawapati barua pepe ya taarifa.

2.4.5.6.3. TengenezaTiketi

Creates a ticket with an article, the new ticket can be linked with process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Ticket Create',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketCreate',
    Config => {

      # ticket required:
      Title => 'Some Ticket Title',
      Queue => 'Raw', # or QueueID => 123,
      Lock => 'unlock',
      Priority => '3 normal', # or PriorityID => 2,
      State => 'new', # or StateID => 5,
      CustomerID => '123465',
      CustomerUser => 'customer@example.com',
      OwnerID => 123,

      # ticket optional:
      TN => $TicketObject->TicketCreateNumber(), # optional
      Type => 'Incident', # or TypeID => 1, not required
      Service => 'Service A', # or ServiceID => 1, not required
      SLA => 'SLA A', # or SLAID => 1, not required
      ResponsibleID => 123, # not required
      ArchiveFlag => 'y', # (y/n) not required
      PendingTime => '2011-12-23 23:05:00', # optional (for pending states)
      PendingTimeDiff => 123, # optional (for pending states)

      # article required:
      ArticleType => 'note-internal', # note-external|
phone|fax|sms|... # excluding any
      email type
      SenderType => 'agent', # agent|system|
customer
      ContentType => 'text/plain; charset=ISO-8859-15', # or optional
      Charset & MimeType (e.g. 'text/html; charset=UTF-8')
```

```

Subject      => 'some short description',          # required
Body         => 'the message text',              # required
HistoryType  => 'OwnerUpdate',                  #
EmailCustomer|Move|AddNote|PriorityUpdate|WebRequestCustomer|...
HistoryComment => 'Some free text!',

# article optional:
useful      From          => 'Some Agent <email@example.com>',      # not required but
but useful  To            => 'Some Customer A <customer-a@example.com>', # not required
but useful  Cc            => 'Some Customer B <customer-b@example.com>', # not required
useful      ReplyTo       => 'Some Customer B <customer-b@example.com>', # not required
useful      MessageID     => '<asdasdasd.123@example.com>',          # not required but
useful      InReplyTo     => '<asdasdasd.12@example.com>',          # not required but
not required but useful  References      => '<asdasdasd.1@example.com> <asdasdasd.12@example.com>', #
to send agent notifications  NoAgentNotify  => 0,                      # if you don't want
follow up|auto reply/new ticket|auto remove  AutoResponseType => 'auto reply'          # auto reject|auto
ForceNotificationToUserID => [ 1, 43, 56 ],          # if you want to
force somebody  ExcludeNotificationToUserID => [ 43,56 ],          # if you want full
exclude somebody from notifications,          # will also be
removed in To: line of article,              # higher prio as
ForceNotificationToUserID  ExcludeMuteNotificationToUserID => [ 43,56 ],          # the same as
ExcludeNotificationToUserID but only the     # sending gets
muted, agent will still shown in To:         # line of article

TimeUnit      => 123

# other:
DynamicField_NameX => $Value,
LinkAs => $LinkType,          # Normal, Parent,
Child, etc. (respective original ticket)
UserID => 123,                # optional, to
override the UserID from the logged user
    },
};

```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa. Inachaguliwa kwa uhuru, lakini inatakiwa kuakisi maana ya kitendo kilicho sanidiwa.

'Title' The ticket title.

'Queue' or 'QueueID' specifies the name or id of the queue to be used in the new ticket.

'Lock' or 'LockID' sets the lock status of the ticket.

'Priority' or 'PriorityID' specifies the name or id of the priority to be used in the new ticket.

'State' or 'StateID' specifies the name or id of the state to be used in the new ticket.

'CustomerID', the customer id to be set for the new ticket.

'CustomerUser', the login of the customer that will be assigned in the ticket.

'OwnerID', the ID of the agent that will be the new ticket owner.

'TN', custom number for the new ticket.

'Type' or 'TypeID' specifies the name or id of the ticket type to be used in the new ticket.

'Service' or 'ServiceID' specifies the name or id of the service to be used in the new ticket.

'SLA' or 'SLAID' specifies the name or id of the SLA to be used in the new ticket.

'ResponsibleID', the ID of the agent that will be the new ticket responsible.

'PendingTime', a predefined date to set the Ticket Pending Times, when the ticket state belongs to a pending state type.

'PendingTimeDiff', a dynamically date (expressed in seconds from current date/time) to set the Ticket Pending Times, when the ticket state belongs to a pending state type.

'Aina ya Makala' inafafanua aina ya makala itakayotengenezwa. Thamani ziwezekanazo: simu, faksi, ujumbe mfupi wa maneno, notisi-ndani, notisi-nje, na notisi-ripoti.

Aina Ya Mtumaji inafafanua aina ya mtumaji wa makala. Thamani ziwezekanazo: wakala, mfumo, mteja.

'AinaMaudhui' inafafanua aina ya maudhui ya makala. Thamani ziwezekanazo: 'nakala/ghafi; seti kibambo=ISO-8859-15' au seti kibambo nyingine yoyote halali na aina ya mime.

'Somo' inafafanua mada ya makala. Lazima.

'Kiini' inafafanua maudhui ya makala. Lazima.

'HistoryType' defines the type of the history entry. Possible values: AddNote, Archive-FlagUpdate, Bounce, CustomerUpdate, EmailAgent, EmailCustomer, EscalationResponseTimeNotifyBefore, EscalationResponseTimeStart, EscalationResponseTimeStop, EscalationSolutionTimeNotifyBefore, EscalationSolutionTimeStart, EscalationSolutionTimeStop, EscalationUpdateTimeNotifyBefore, EscalationUpdateTimeStart, EscalationUpdateTimeStop, FollowUp, Forward, Lock, LoopProtection, Merged, Misc, Move, NewTicket, OwnerUpdate, PhoneCallAgent, PhoneCallCustomer, PriorityUpdate, Remove, ResponsibleUpdate, SendAgentNotification, SendAnswer, SendAutoFollowUp, SendAutoReject, SendAutoReply, SendCustomerNotification, ServiceUpdate, SetPendingTime, SLAUpdate, StateUpdate, Subscribe, SystemRequest, TicketDynamicFieldUpdate, TicketLinkAdd, TicketLinkDelete, TimeAccounting, TypeUpdate, Unlock, Unsubscribe, WebRequestCustomer.

'HistoriaMaoni' inafafanua maudhui ya ingizo la historia.

'Kutoka', 'Kwa', 'Nakala' na 'JibuKwa' peleka anuani za barua pepe kwenye nukuu zilizobainishwa juu.

'KatikaMajibuKwa' na 'Marejeo' chukua Vitambulisho vya ujumbe wa barua pepe.

'HakunaWakalaArifu'-kama imesetiwa kuwa 1, taarifa ya barua pepe ya Wakala haitatumwa.

'MajibuAinaOtomatiki' inaweza kuchukua thamani zifuatazo: ufwatiliaji otomatiki, ukataaji otomatiki, uondoaji otomatiki, majibu otomatiki, majibu otomatiki/tiketi mpya.

'LazimishaTaarifaKwaKitambulichoChaMtumiaji', 'TenganishaTaarifaKwaKitambulishoChamtumiaji', 'TenganishaNyamazishaTaarifaKwaKitambulishoChaMtumiaji' zinaweza kuchukua orodha ya Vitambulisho vya Watumiaji ambao aidha wanapata taarifa kila wakati, hawapati taarifa au wanawekwa kwenye orodha kama wanapata taarifa lakini hawapati barua pepe ya taarifa.

'TimeUnit' the time invested in the current ticket article expressed in seconds, minutes, hours, etc.

'DynamicField_NameX' where DynamicField_ is a required prefix and NameX is the name of a Dynamic Field to be set in the new ticket (on ticket level, not article levels).

'LinkAs' to define the new ticket relation with originator ticket, from the new ticket point of view, for example Normal, Parent, Child etc.

2.4.5.6.4. SetiTiketiMteja

Inaseti mteja wa tiketi ya mchakato. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Customer Set Customer to test',
    Module => 'Kernel::System::Process::TransitionAction::TicketCustomerSet',
    Config => {
      No => 'test',
      User => 'client-user-123',
      # or in other words
      # CustomerID => 'client123',
      # CustomerUserID => 'client-user-123',
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa.

'No' or 'CustomerID' set the Customer ID of the customer.

'User' or 'CustomerUserID' set the Username of the customer.

2.4.5.6.5. SetiKitasaTiketi

Inabadilisha ufunguo wa tiketi ya mchakato, Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Lock to lock',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketLockSet',
    Config => {
      Lock => 'lock',
      # or
      LockID => 2,
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa.

'Funga' inafafanua ufungaji mpya wa tiketi ya mchakato.

'Kitambulisho cha Funga' inafafanua kitambulisho cha ndani cha ufungaji mpya.

2.4.5.6.6. SetiMwenyeTiketi

Inabadilisha mmiliki wa tiketi ya nchakato. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Owner Set root@localhost',
```

```

Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketOwnerSet',
Config => {
  Owner => 'root@localhost',
  # or
  OwnerID => 1,
},
};

```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa.

'Mmiliki' inaweka bayana jina la kuingia la mmiliki mpya.

'Kitambulisho cha Mmiliki' inaweka bayana kitambulisho cha ndani cha mmiliki mpya.

2.4.5.6.7. SetiFoleniTiketi

Inapeleka tiketi kwenye foleni lengwa. Mfano:

```

$self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move Raw',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Raw',
      # or
      # QueueID => '2',
    },
  },
};

```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa.

'Foleni' inaweka bayana jina la foleni lengwa.

'Kitambulisho cha Foleni' inaweka bayana kitambulisho cha ndani cha foleni lengwa.

2.4.5.6.8. SetKuwajibikaTiketi

Inabadilisha tiketi ya mchakato inayohusika. Mfano:

```

$self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Responsible Set root@localhost',
    Module =>
      'Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet',
    Config => {
      Responsible => 'root@localhost',
      # or
      ResponsibleID => 1,
    },
  },
};

```

'Jina' inaweka bayana jina la KitendoChampito kilicho sanidiwa.

'Mhusika' inaweka bayana jina la kuingia la mhusika mpya.

'Kitambulisho cha Mhusika' inaweka bayana kitambulisho cha ndani cha mhusika mpya.

2.4.5.6.9. SetiHudumaTiketi

Inagawia huduma kwa tiketi ya mchakato. Tiketi inahitaji kuwa na mteja na huduma lazima iwe imegawiwa kwa huyo mteja. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set MyService service',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketServiceSet',
    Config => {
      Service => 'MyService',
      # or
      ServiceID => 123,
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChamPito kilicho sanidiwa.

'Huduma' inafanua huduma mpya ya tiketi ya mchakato. Jina kamili linahitajika (mf. HudumaBabu::HudumaBaba::HudumaMtoto).

'Kitambulisho cha Huduma' inafanua kitambulisho cha ndani cha huduma mpya.

2.4.5.6.10. SetiSLATiketi

Inagawia makubaliano ya ngazi ya huduma kwa tiketi ya mchakato. Tiketi inahitaji kuwa na huduma na SLA lazima igawiwe kwa hiyo huduma. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set MySLA SLA',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketSLASet',
    Config => {
      SLA => 'MySLA',
      # or
      SLAID => 123,
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChamPito kilicho sanidiwa.

'SLA' inafanua makubaliano ya ngazi ya huduma mpya ya mchakato wa tiketi.

'Kitambulisho cha SLA' inafanua kitambulisho cha ndani cha SLA mpya.

2.4.5.6.11. SetiHaliTiketi

Inabadilisha hali ya mchakato wa tiketi. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set State to open',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketStateSet',
    Config => {
      State => 'open',
      # or
      StateID => 4,

      PendingTimeDiff => 123,
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChamPito kilicho sanidiwa.

'Hali' inafanua hali mpya ya tiketi ya mchakato.

'Kitambulisho cha Hali' inafafanua kitambulisho cha ndani cha hali mpya.

'MudaKusubiriTofauti' inatumika kwa ajili ya aina za hali za kusubiri tu, inafafanua utofauti wa muda katika sekunde yenye uhusiano (yenye uhusiano na muda wa utekelezaji wa Kitendo cha Mpito) na muda wa kusubiri wa tiketi ulio setiwa (mf. 3600 inamaanisha muda wa kusubiri ni lisaa 1 baada ya Kitendo cha Mpito kutekelezwa).

2.4.5.6.12. SetiMadaTiketi

Inaseti kichwa cha habari cha tiketi ya mchakato. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Ticket Title to Ticket-title',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketTitleSet',
    Config => {
      Title => 'Ticket-title',
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChaMpito kilicho sanidiwa.

"Kichwa cha Habari" kinaweka bayana kichwa cha habari kipa cha tiketi.

2.4.5.6.13. SetiAinaTiketi

Inaseti aina ya tiketi ya mchakato. Mfano:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Ticket Type to default',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketTypeSet',
    Config => {
      Type => 'default',
      # or
      #TypeID => '1',
    },
  },
};
```

'Jina' inaweka bayana jina la KitendoChaMpito kilicho sanidiwa.

'Aina' inaweka bayana jina la aina ya tiketi.

'Kitambulisho cha Aina' inaweka bayana kitambulisho cha ndani cha aina ya tiketi.

2.4.6. Orodha Dhibiti Sikivu

Kwa usaidizi kutoka ACLs, unaweza kuweka kikomo cha vitu vya kuchaguliwa kwenye tiketi za mchakato. Tafadhali ona pia rejea ya ACL kwa maelezo kamili ya sintaksi ya ACL.

2.4.6.1. Usanidi wa ACL

ACL zinaweza kufafanuliwa kwenye Kernel/Config.pm tu. Mfano:

```
$Self->{TicketAcl}->{'001-ACL-ProcessProperties'} = {
  Properties => {
    Process => {
      ProcessEntityID => ['P1'],
      ActivityEntityID => ['A1'],
    },
  },
};
```



```

    ActivityDialogEntityID => ['AD1'],
  }
},
Possible => {
  ActivityDialog => ['AD1', 'AD3'],
},
PossibleNot => {
  ActivityDialog => ['AD3'],
},
};

```

2.4.6.2. 001-ACL-SifaMchakato

Jina la sheria ya ACL. Kwa maelezo zaidi kuhusu sheria za ACL kwa ujumla, tafadhali nenda mwongozo wa ACL.

2.4.6.3. Mchakato

Hii sehemu inatumika lulagua kama ACL laizma itumike. Kama ina thamani zilizowekwa bayana, sheria itatumika. Thamani zifuatazo zinaweza kutumika:

2.4.6.3.1. KitambulishoChaChomboChaMchakato

Kitambulisho cha mchakato ambacho mchakato. Unafanania kama tiketi ikigawiwa kwa huu mchakato.

2.4.6.3.2. KitambulishoChaChomboChaShughuli

Kitambulisho cha Shughuli ambayo tiketi ya mchakato imegawiwa kwa sasa.

2.4.6.3.3. KitambulishoChaChomboChaMaongeziYaShughuli

Kitambulisho cha Maongezi ya Shughuli ambayo yako wazi kwa tiketi ya mchakato kwa sasa.

2.4.6.4. Ynawezekana/Yasiyowezekana Maongezi ya Shughuli

Hapa unaweza kuweka bayana orodha ya Vitambulisho vya Maongezi ya Shughuli. Hii orodha itaweka ukomo wa Maongezi ya Shughuli ambayo yanaweza kugawiwa kwa mtumiaji katika barakoa ya kuza tiketi.

'Inawezekana' inaorodhesha Maongezi ya Shughuli ambayo yanaruhusiwa. Mpangilio hapo juu utaruhusu 'AD1' na 'AD3' tu kati ya orodha ya Maongezi ya Shughuli yaliyosanidiwa.

'InawezekanaHapana' inaorodhesha Maongezi ya Shughuli ambayo hayaruhusiwi. Kati ka mfano hapo juu, mpangilio utaondoa 'AD3' kutoka kwenye orodha ya Maongezi ya Shughuli yaliyosanidiwa.

Kama zote 'Inawezekana' na 'InawezekanaHapana' zimewekwa bayana, orodha ya Maongezi ya Shughuli yatachujwa kwanza na 'Inawezekana', na kuacha 'AD1' na 'AD3' tu katika mfano wetu. Kisha 'InawezekanaHapana' itafanyika na kuchuja 'AD3', ili 'AD1' pekee ibaki na inaonyeshwa kama Maongezi ya Shughuli yanayowezekana ambayo mtumiaji anaweza kutumia.

Kama sheria zaidi ya moja za ACL zimefanana, muunganiko wa sheria zote zinazofanana utatafutwa kutengeneza Maongezi ya Shughuli yanayowezekana. Mfano:

Configured Activity Dialogs: 'AD1', 'AD2', 'AD3', 'AD4', 'AD5', 'AD6', 'AD7'.

```

$self->{TicketAcl}->{'001-ACL-Status'} = {

```

```

    Properties => {
      Ticket => {
        Status => 'new',
      }
    },
    Possible => {
      ActivityDialog => ['AD1', 'AD2', 'AD3', 'AD6', 'AD7'],
    },
  };
$self->{TicketAcl}->{'002-ACL-Queue'} = {
  Properties => {
    Ticket => {
      Queue => ['Raw']
    }
  },
  Possible => {
    ActivityDialog => ['AD2', 'AD3', 'AD4', 'AD7'],
  },
};
$self->{TicketAcl}->{'003-ACL-Priority'} = {
  Properties => {
    Ticket => {
      Priority => ['3 normal']
    }
  },
  PossibleNot => {
    ActivityDialog => ['AD3', 'AD4'],
  },
};

```

Kama tiketi ya mchakato ina hali 'mpya', iko kwenye foleni 'Mbichi' na ina kipaumbele '3 kawaida', basi sheria zote tatu za ACL zitafanana nayo.

Sheria ya kwanza inapunguza Maongezi ya Shughuli kutoka 'AD1', 'AD2', 'AD3', 'AD4', 'AD5', 'AD6', 'AD7' to 'AD1', 'AD2', 'AD3', 'AD6', 'AD7' na inakataza 'AD4' na 'AD5'.

Sheria ya pili itapunguza zaidi Maongezi ya Shughuli yaliyobaki. Katika mfano wetu, 'AD2', 'AD3', 'AD7' zitabaki.

Sasa sheria ya tatu itapunguza zaidi orodha kwa 'InawezekanaHapana'. 'AD3' inaondolewa kutoka kwenye orodha. 'AD4' haiondolewi, kwa kuwa haikuwa kwenye orodha tangu mwanzo. Mwishoni, 'AD2' na 'AD7' zitabaki kama Maongezi ya Shughuli yanayowezekana ambayo mtumiaji anaweza kutumia.

It is also possible to limit the processes that can be displayed in the "New process ticket" screen. The functionality is similar to limiting the Activity Dialogs with one exception: The ACLs could only be based on Users.

Ona mifano chini:

```

$self->{TicketAcl}->{'200-ACL-Process'} = {
  # match properties
  Properties => {
    User => {
      UserID => [2, 3],
    },
  },
  Possible => {
    Process => ['P1', 'P2', 'P3'],
  },
  PossibleNot => {
    Process => ['P4'],
  },
};

```

```
$Self->{TicketAcl}->{'201-ACL-Process'} = {  
  # match properties  
  Properties => {  
    User => {  
      Group_rw => [ 'MyGroup' ],  
    },  
  },  
  Possible => {  
    Process => ['P1', 'P2', 'P3'],  
  },  
  PossibleNot => {  
    Process => ['P4'],  
  },  
};
```

```
$Self->{TicketAcl}->{'202-ACL-Process'} = {  
  # match properties  
  Properties => {  
    User => {  
      Role => [ 'MyRole' ],  
    },  
  },  
  Possible => {  
    Process => ['P1', 'P2', 'P3'],  
  },  
  PossibleNot => {  
    Process => ['P4'],  
  },  
};
```

3. Localization of the OTRS Front End

Procedures for localization for the OTRS framework, steps to be followed to create a new language translation, as well as procedures for translation customizations, can be found in the "[Language Translations](http://otrs.github.io/doc)" chapter from the developer manual on <http://otrs.github.io/doc>.

Chapter 6. Kuboresha Utendaji

Inayoonyeshwa chini ni orodha ya mbinu za kuboresha utendaji wa usakinishaji wako wa OTRS, ikijumuisha usanidi, uandikaji kanuni, matumizi ya kumbukumbu, na mengine.

1. OTRS

Kuna njia tofauti za kuboresha utendaji wa OTRS.

1.1. ModuliKielelezoTiketi

There are two backend modules for the index for the ticket queue view:

- Using `Kernel::System::Ticket::IndexAccelerator::RuntimeDB` (default), generate each queue view on the fly from the ticket table. You will not have performance trouble until you have about 60,000 open tickets in your system.
- `Kernel::System::Ticket::IndexAccelerator::StaticDB`, the most powerful module, should be used when you have above 80,000 open tickets. It uses an extra `ticket_index` table, which works like a view. Use `bin/otrs.Console.pl Maint::Ticket::QueueIndexRebuild` for generating an initial index after switching backends.

Unaweza kubadilisha `IndexAccelerator` kupitia `SysConfig`.

1.2. ModuliHifadhiTiketi

Kuna moduli mbili tofauti za mazingira ya nyuma ya uhifadhi wa tiketi/makala:

- Configure `Kernel::System::Ticket::ArticleStorageDB` (default) to store attachments, etc., in the database. Note: Don't use it with large setups.

Faida: Kama mtumiaji wako wa seva ya tovuti siyo mtumiaji wa 'otrs', tumia hii moduli kuzuia matatizo ya ruhusa za faili.

Hasara: Haishauriwi kuhifadhi viambatanisho kwenye hifadhidata yako. Chukua tahadhari kwamba hifadhidata yako inaweza kuhifadhi vitu vikubwa. Mf. Sanidi MySQL na "set-variable = max_allowed_packet=8M" kuhifadhi vitu vyenye 8 MB (chaguo msingi ni 2M).

- Configure `Kernel::System::Ticket::ArticleStorageFS` to store attachments etc. on the local file system. Note: Recommended for large setups.

Faida: Ni ya kasi!

Hasara: Mtumiaji wako wa seva ya tovuti anatakiwa kuwa mtumiaji wa 'otrs'. Pia, kama una seva za mazingira ya mbele zaidi ya moja, unatakiwa kuhakikisha mfumo wa faili unatumiwa kwa pamoja kati ya seva. Iweke kwenye ushirika wa NFS au kwa mapendeleo zaidi SAN au inayofanania.

Note: you can switch from one back-end to the other on the fly. You can switch the backend in the `SysConfig`, and then run the command line utility `bin/otrs.Console.pl Admin::Article::StorageSwitch` to put the articles from the database onto the filesystem or the other way around. You can use the `--target` option to specify the target back-end. Please note that the entire process can take considerable time to run, depending on the number of articles you have and the available CPU power and/or network capacity.

```
shell> bin/otrs.Console.pl Admin::Article::StorageSwitch --target ArticleStorageFS
```

Script: Switching storage back-ends from database to filesystem.

If you want to keep old attachments in the database, you can activate the SysConfig option `Ticket::StorageModule::CheckAllBackends` to make sure OTRS will still find them.

1.3. Kuhifadhi Tiketi

Kwa kuwa OTRS inaweza kutumika kama mfumo wa kuzuia ukaguzi, kufuta tiketi zilizofungwa inaweza kuwa sio wazo zuri. Kwa hiyo tumetengeneza kipengele kinachokuruhusu kuhifadhi tiketi kwenye nyaraka.

Tickets that match certain criteria can be marked as "archived". These tickets are not accessed if you do a regular ticket search or run a Generic Agent job. The system itself does not have to deal with a huge amount of tickets any longer as only the "latest" tickets are taken into consideration when using OTRS. This can result in a huge performance gain on large systems.

Kutumia kipengele cha nyaraka fuata hatua zifuatazo kirahisi:

1. Amilisha mfumo wa nyaraka katika SysConfig

Katika kurasa ya msimamizi, nenda kwenye AysConfig na chagua Tiketi ya kundi hilo. Katika Kiini::Tiketi unakuta chaguo Tiketi::MfumoNyaraka ambao umesetiwa kuwa "hapana" kwa chaguo-msingi. Badilisha mpangilio huu kuwa "ndiyo" na hifadhi mabadiliko.

2. Fafanua kazi ya WakalaWajumla

On the Admin page, select GenericAgent and add a new job there.

a. Mpangilio wa kazi

Toa jina kwa

b. Chujio la Tiketi

Vichujio vya tiketi vinatafuta tiketi ambazo zinafanana na kigezo kilichochaguliwa. Inaweza kuwa wazo zuri kuweka kwenye nyaraka zile tiketi zilizokwenye hali iliyofungwa na zimefungwa miezi michache nyuma.

c. Kitendo cha Tiketi

Katika kifungu hiki, seti sehemu yenye lebo "Hifadhi kwenye Nyaraka tiketi zilizochaguliwa" kuwa "hifadhi tiketi kwenye nyaraka".

d. Hifadhi kazi

Mwisho wa kurasa utapata chaguo la kuhifadhi kazi.

e. Tiketi zilizoathirika.

Mfumo utaonyesha tiketi zote zitakazohifadhiwa kwenye nyaraka wakati wa kutekeleza kazi ya Wakala wa Ujumla.

3. Tafuta Tiketi

Ukitafuta tiketi, mfumo kwa kawaida unatafuta tiketi zisizo kwenye nyaraka. Kama ukitaka kutafuta tiketi za kwenye nyaraka pia, ongeza kirahisi "tafuta nyaraka" wakati wa kufafanua vigezo vya kutafuta.

1.4. Hifadhi muda

OTRS caches a lot of temporary data in `/opt/otrs/var/tmp`. Please make sure that this uses a high performance file system/storage. If you have enough RAM, you can also try to put this directory on a ramdisk like this:

```
shell> /opt/otrs/bin/otrs.Console.pl Maint::Session::DeleteAll
shell> /opt/otrs/bin/otrs.Console.pl Maint::Cache::Delete
shell> sudo mount -o size=16G -t tmpfs none /opt/otrs/var/tmp

# add persistent mount point in /etc/fstab
```

Note

Please note that this will be a non-permanent storage that will be lost on server reboot. All your sessions (if you store them in the filesystem) and your cache data will be lost.

There is also a centralized memcached based Cache backend available for purchase from OTRS Group.

2. Hifadhidata

Masula ya DB yanategemeenan na hifadhidata inayotumika. Jifunze kupitia nyaraka za hifadhidata yako au onana na msimamizi wa hifadhidata yako.

2.1. MySQL

Kama ukitumia jedwali la MySQL la aina MyISAM (ambalo ni chaguo-msingi), na ukafuta sehemu kubwa ya jedwali au kama umefanya mabadiliko mengi kwenye jedwali yenye safu mlalo zenye urefu unaobadilika (majedwali yenye safuwima VARCHAR, BLOB na NAKALA), lazima uunganishe vipande vya faili la data (majedwali) kwa kutumia amri "sad-ifisha"

Unatakiwa kujaribu hili kama mysqld daemon inahitaji sana kutoka kwenye muda wako wa CPU. Sadifisha majedwali - tiketi, tiketi_historia na makala (ona Hati chini).

```
shell> mysql -u user -p database
mysql> optimize table ticket;
mysql> optimize table ticket_history;
mysql> optimize table article;
```

Hati: Kuongeza ufanisi wa majedwali msingi ya data.

2.2. PostgreSQL

PostgreSQL is best tuned by modifying the `postgresql.conf` file in your PostgreSQL data directory. For advice on how to do this, reference the following articles:

- <http://www.revsys.com/writings/postgresql-performance.html>
- <http://varlena.com/GeneralBits/Tidbits/perf.html>
- http://varlena.com/GeneralBits/Tidbits/annotated_conf_e.html Type your translation here

Kama utendaji bado hauridhishi, tunashauri kwamba ujiunge na orodha ya watumiwa wa Utendaji wa PostgreSQL (<http://www.postgresql.org/community/lists/>), na kuuliza maswali hapo. Wahusika kwenye orodha ya PostgreSQL wakarimu na wanaweza kusaidia.

3. Seva ya tovuti

Bila shaka unatakiwa kutumia mod_perl 2.0 (<http://perl.apache.org/>). Ina kasi zaidi (~ * 100) zaidi ya cgi halisi. Lakini inahitaji RAM zaidi.

3.1. Miunganiko ya hifadhidata iliyotengenezwa.

Una miunganiko ya hifadhidata imewekwa tayari wakati wauanzishwaji wa seva ya tovuti. Hii inaokoa muda (pitia README.webserver).

3.2. Moduli zilizopakwa tayari -startup.pl

Tumia hati ya uwashaji scripts/apache2-perl-startup.pl kwa ajili ya moduli za Perl ambazo tayari zimepakwa/zimekusanywa-zalishwa katika seva yako ya tovuti ya mod_perl kuwa ya kasi zaidi, kwa utumiaji mdogo wa kumbukumbu (ona README.webserver).

3.3. Pakia tena moduli za perl zinapo sasishwa kwenye diski

By default Apache::Reload is used in scripts/apache2-httpd.include.conf. Disable it and you will get 8% more speed. But remember to restart the web server if you install any modules via the OTRS Package Manager, or any values in your SysConfig or in Kernel/Config.pm. Important: this would also mean you can't use the OTRS Package Manager via the web interface, you need to use the command line variant - bin/otrs.PackageManager.pl.

3.4. Kuchagua mkakati sahihi

Kama una usakinishaji mkubwa, mf. zaidi ya tiketi mpya 1,000 kwa siku na zaidi ya mawakala 40, ni wazo zuri kusoma sura kuhusu Utendaji katika Mwongozo wa Mtumiaji wa mod_perl (<http://perl.apache.org/docs/2.0/user/index.html>).

3.5. mod_gzip/mod_deflate

Kama kipimo data chako ni kidogo, tumia mod_deflate kwa ajili ya Apache2. Kama una ukurasa wa html wenye 45k, mod_gzip/mod_deflate itaufinyaza kuwa takribani 7k. Hasara ni kwamba hii inaongeza mzigo kwenye upande wa seva.

Appendix A. Rasilimali za Ziada

otrs.com

The OTRS website with source code, documentation and news is available at www.otrs.com. Here you can also find information about professional services and OTRS Administrator training seminars from OTRS Group, the creator of OTRS.

Mailing Lists

Table A.1. Mailing Lists

Name & URL	Maelezo
announce@otrs.org	Orodha ya hali chini ya msongamano, kwa Kiingereza, kwa ajili ya matangazo ya matoleo mapya ya OTRS na masuala ya usalama.
otrs@otrs.org	Orodha ya hali ya kati kwenda juu ya msongamano, kwa Kiingereza, ambapo unaweza kupata maswali ya aina zote yanayohusika na msaada kuhusu bidhaa.
otrs-de@otrs.org	Orodha ya hali ya kati kwenda juu ya msongamano, kwa Kijerumani, ambapo unaweza kupata maswali ya aina zote yanayohusika na msaada kuhusu bidhaa.
dev@otrs.org	Orodha ya hali ya kati, kwa Kiingereza, ambapo waundaji wa OTRS wanajadili masuala mbali mbali ya usanifu na utekelezaji.

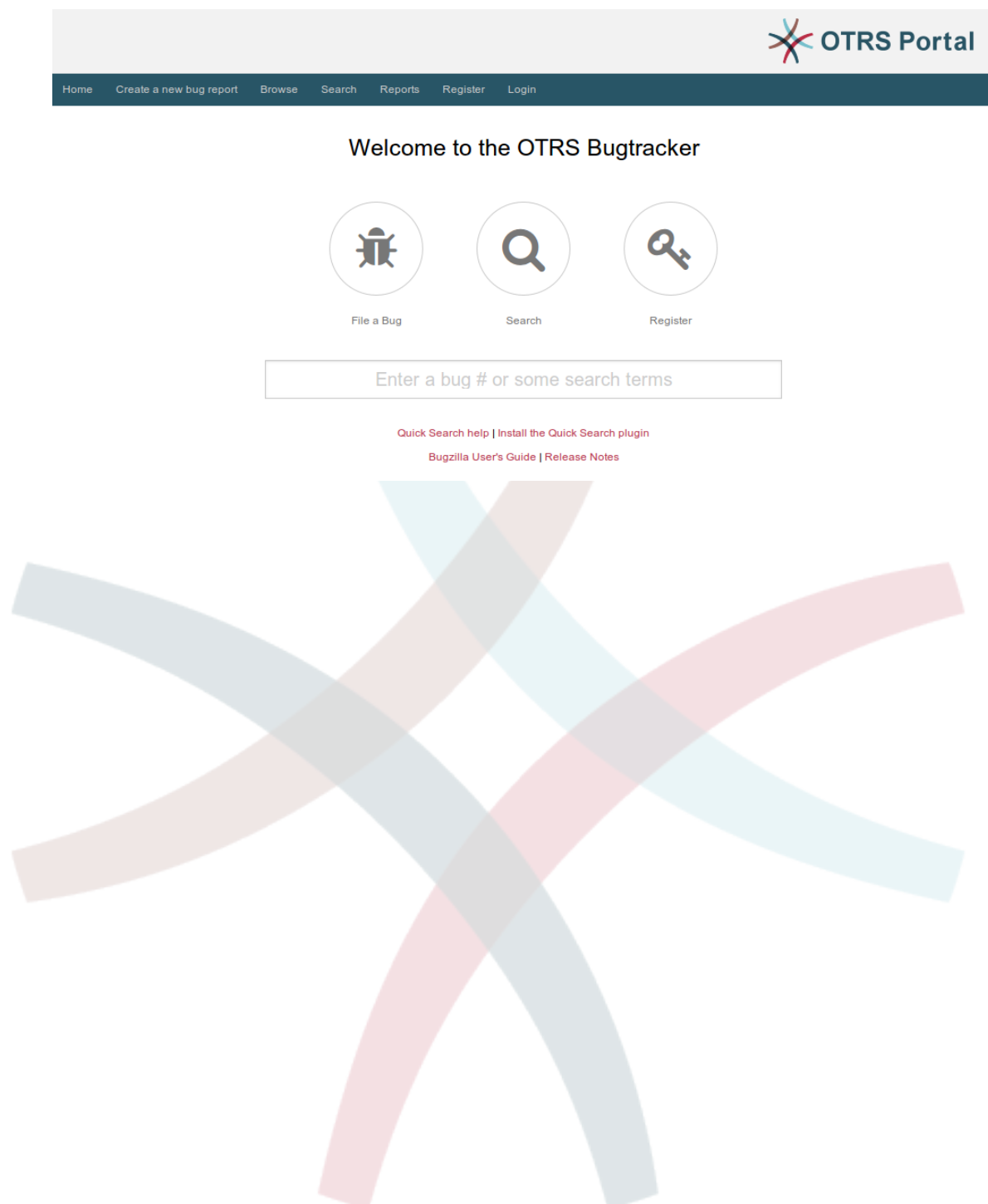
Translations

You can help translate OTRS to your language at Transifex.

Ufuatiliaji makosa

To report software defects, please visit <http://bugs.otrs.org/> (see figure below). Please take note of the difference between a bug and a configuration issue. Configuration issues are problems that you encounter when setting a system, or general questions regarding the use of OTRS. Bug reports should only be used for issues with the source code of OTRS or other open source OTRS modules itself. For configuration issues, you should either use the [commercial support, available from OTRS](#), or the public mailing lists.

Figure A.1. Kifaa cha ufwatiliajimakosa



Appendix B. Configuration Options Reference

1. CloudService

CloudService → CloudService::Admin::ModuleRegistration

CloudService::Admin::Module###100-SupportDataCollector

Cloud service admin module registration for the transport layer.

Thamani chaguo-msingi:

```
$Self->{'CloudService::Admin::Module'}->{'100-SupportDataCollector'} = {
  'ConfigDialog' => 'AdminCloudServiceSupportDataCollector',
  'Description' => 'Configure sending of support data to OTRS Group for improved
support.',
  'Icon' => 'fa fa-compass',
  'Name' => 'Support data collector'
};
```

CloudService::Admin::Module###200-SMS

Cloud service admin module registration for the transport layer.

Thamani chaguo-msingi:

```
$Self->{'CloudService::Admin::Module'}->{'200-SMS'} = {
  'ConfigDialog' => 'AdminCloudServiceSMS',
  'Description' => 'This will allow the system to send text messages via SMS.',
  'Icon' => 'fa fa-mobile',
  'IsOTRSBusiness' => '1',
  'Name' => 'SMS'
};
```

CloudService → Core

CloudServices::Disabled

Disables the communication between this system and OTRS Group servers that provides cloud services. If active, some functionality will be lost such as system registration, support data sending, upgrading to and use of OTRS Business Solution™, OTRS Verify™, OTRS News and product News dashboard widgets, among others.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CloudServices::Disabled'} = '0';
```

CloudService → Frontend::Agent::ModuleNotify

Frontend::NotifyModule###1000-CloudServicesDisabled

Defines the module to display a notification if cloud services are disabled.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'1000-CloudServicesDisabled'} = {
  'Group' => 'admin',
  'Module' => 'Kernel::Output::HTML::Notification::AgentCloudServicesDisabled'
};
```

2. Daemon

Daemon → Core::Daemon::ModuleRegistration

DaemonModules###SchedulerGenericAgentTaskManager

The daemon registration for the scheduler generic agent task manager.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DaemonModules'}->{'SchedulerGenericAgentTaskManager'} = {
  'Module' => 'Kernel::System::Daemon::DaemonModules::SchedulerGenericAgentTaskManager'
};
```

DaemonModules###SchedulerCronTaskManager

The daemon registration for the scheduler cron task manager.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DaemonModules'}->{'SchedulerCronTaskManager'} = {
  'Module' => 'Kernel::System::Daemon::DaemonModules::SchedulerCronTaskManager'
};
```

DaemonModules###SchedulerFutureTaskManager

The daemon registration for the scheduler future task manager.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DaemonModules'}->{'SchedulerFutureTaskManager'} = {
  'Module' => 'Kernel::System::Daemon::DaemonModules::SchedulerFutureTaskManager'
};
```

DaemonModules###SchedulerTaskWorker

The daemon registration for the scheduler task worker.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DaemonModules'}->{'SchedulerTaskWorker'} = {
  'Module' => 'Kernel::System::Daemon::DaemonModules::SchedulerTaskWorker'
};
```

Daemon → Core::Log

Daemon::Log::DaysToKeep

Defines the number of days to keep the daemon log files.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::Log::DaysToKeep'} = '1';
```

Daemon::Log::STDOUT

If enabled the daemon will redirect the standard output stream to a log file.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::Log::STDOUT'} = '0';
```

Daemon::Log::STDERR

If enabled the daemon will redirect the standard error stream to a log file.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::Log::STDERR'} = '1';
```

Daemon → Core::Web

Loader::Agent::CommonCSS###001-Daemon

List of CSS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonCSS'}->{'001-Daemon'} = [
  'Core.Agent.Daemon.css'
];
```

Loader::Agent::CommonJS###001-Daemon

List of JS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonJS'}->{'001-Daemon'} = [
  'Core.Agent.Daemon.js'
];
```

Daemon → Daemon::SchedulerCronTaskManager::Task

Daemon::SchedulerCronTaskManager::Task###CoreCacheCleanup

Delete expired cache from core modules.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'CoreCacheCleanup'} = {
  'Function' => 'Cleanup',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Cache',
  'Params' => [
    'Expired',
    '1'
  ],
  'Schedule' => '20 0 * * 0',
  'TaskName' => 'CoreCacheCleanup'
};
```

Daemon::SchedulerCronTaskManager::Task###WebUploadCacheCleanup

Delete expired upload cache hourly.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'WebUploadCacheCleanup'} = {
  'Function' => 'FormIDCleanup',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Web::UploadCache',
  'Params' => [],
  'Schedule' => '46 * * * *',
  'TaskName' => 'WebUploadCacheCleanup'
};
```

Daemon::SchedulerCronTaskManager::Task###LoaderCacheDelete

Delete expired loader cache weekly (Sunday mornings).

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'LoaderCacheDelete'} = {
  'Function' => 'CacheDelete',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Loader',
  'Params' => [],
  'Schedule' => '30 0 * * 0',
  'TaskName' => 'LoaderCacheDelete'
};
```

Daemon::SchedulerCronTaskManager::Task###FetchMail

Fetch emails via fetchmail.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'FetchMail'} = {
  'Function' => 'Fetch',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::FetchMail',
  'Params' => [],
  'Schedule' => '* /5 * * * *',
  'TaskName' => 'FetchMail'
};
```

Daemon::SchedulerCronTaskManager::Task###FetchMailSSL

Fetch emails via fetchmail (using SSL).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'FetchMailSSL'} = {
  'Function' => 'Fetch',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::FetchMail',
  'Params' => [
    'SSL',
    '1'
  ],
  'Schedule' => '* /5 * * * *',
  'TaskName' => 'FetchMailSSL'
};
```

Daemon::SchedulerCronTaskManager::Task###GenerateDashboardStats

Generate dashboard statistics.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenerateDashboardStats'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::Stats::Dashboard::Generate',
  'Params' => [],
  'Schedule' => '5 * * * *',
  'TaskName' => 'GenerateDashboardStats'
};
```

Daemon::SchedulerCronTaskManager::Task###EscalationCheck

Triggers ticket escalation events and notification events for escalation.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'EscalationCheck'} = {
  'Function' => 'Execute',
```

```
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::Ticket::EscalationCheck',
'Params' => [],
'Schedule' => '*/*5 * * * *',
'TaskName' => 'EscalationCheck'
};
```

Daemon::SchedulerCronTaskManager::Task###TicketPendingCheck

Process pending tickets.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'TicketPendingCheck'} = {
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::Ticket::PendingCheck',
'Params' => [],
'Schedule' => '45 */2 * * *',
'TaskName' => 'TicketPendingCheck'
};
```

Daemon::SchedulerCronTaskManager::Task###SpoolMailsReprocess

Reprocess mails from spool directory that could not be imported in the first place.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'SpoolMailsReprocess'} = {
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' =>
'Kernel::System::Console::Command::Maint::PostMaster::SpoolMailsReprocess',
'Params' => [],
'Schedule' => '10 0 * * *',
'TaskName' => 'SpoolMailsReprocess'
};
```

Daemon::SchedulerCronTaskManager::Task###MailAccountFetch

Fetch incoming emails from configured mail accounts.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'MailAccountFetch'} = {
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::PostMaster::MailAccountFetch',
'Params' => [],
'Schedule' => '*/*10 * * * *',
'TaskName' => 'MailAccountFetch'
};
```

Daemon::SchedulerCronTaskManager::Task###TicketAcceleratorRebuild

Rebuild the ticket index for AgentTicketQueue.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'TicketAcceleratorRebuild'} = {
'Function' => 'TicketAcceleratorRebuild',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Ticket',
'Params' => [],
'Schedule' => '01 01 * * *',
'TaskName' => 'TicketAcceleratorRebuild'
};
```

Daemon::SchedulerCronTaskManager::Task###SessionDeleteExpired

Delete expired sessions.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'SessionDeleteExpired'} = {
```

```
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::Session::DeleteExpired',
'Params' => [],
'Schedule' => '55 */2 * * *',
'TaskName' => 'SessionDeleteExpired'
};
```

Daemon::SchedulerCronTaskManager::Task###TicketUnlockTimeout

Unlock tickets that are past their unlock timeout.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'TicketUnlockTimeout'} = {
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::Ticket::UnlockTimeout',
'Params' => [],
'Schedule' => '35 * * * *',
'TaskName' => 'TicketUnlockTimeout'
};
```

Daemon::SchedulerCronTaskManager::Task###RenewCustomerSMIMECertificates

Renew existing SMIME certificates from customer backend. Note: SMIME and SMIME::FetchFromCustomer needs to be active in SysConfig and customer backend needs to be configured to fetch UserSMIMECertificate attribute.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'RenewCustomerSMIMECertificates'} =
{
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' =>
'Kernel::System::Console::Command::Maint::SMIME::CustomerCertificate::Renew',
'Params' => [],
'Schedule' => '02 02 * * *',
'TaskName' => 'RenewCustomerSMIMECertificates'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom1

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom1'} = {
'Function' => '',
'MaximumParallelInstances' => '1',
'Module' => '',
'Params' => [],
'Schedule' => '* * * * *',
'TaskName' => 'Custom1'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom2

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom2'} = {
'Function' => '',
'MaximumParallelInstances' => '1',
'Module' => '',
'Params' => [],
'Schedule' => '* * * * *',
};
```

```
'TaskName' => 'Custom2'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom3

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom3'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom3'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom4

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom4'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom4'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom5

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom5'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom5'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom6

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom6'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom6'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom7

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom7'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom7'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom8

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom8'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom8'
};
```

Daemon::SchedulerCronTaskManager::Task###Custom9

Executes a custom command or module. Note: if module is used, function is required.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'Custom9'} = {
  'Function' => '',
  'MaximumParallelInstances' => '1',
  'Module' => '',
  'Params' => [],
  'Schedule' => '* * * * *',
  'TaskName' => 'Custom9'
};
```

Daemon::SchedulerCronTaskManager::Task###GenericAgentFile1

Run file based generic agent jobs (Note: module name need needs to be specified in -configuration-module param e.g. "Kernel::System::GenericAgent").

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenericAgentFile1'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::GenericAgent::Run',
  'Params' => [
    '--configuration-module',
    '<ModuleName>'
  ],
  'Schedule' => '*/*20 * * * *',
  'TaskName' => 'GenericAgentFile1'
};
```

Daemon::SchedulerCronTaskManager::Task###GenericAgentFile2

Run file based generic agent jobs (Note: module name need needs to be specified in -configuration-module param e.g. "Kernel::System::GenericAgent").

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenericAgentFile2'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::GenericAgent::Run',
  'Params' => [
    '--configuration-module',
    '<ModuleName>'
  ],
  'Schedule' => '*/*20 * * * *',
  'TaskName' => 'GenericAgentFile2'
};
```

Daemon::SchedulerCronTaskManager::Task###GenericAgentFile3

Run file based generic agent jobs (Note: module name need needs to be specified in -configuration-module param e.g. "Kernel::System::GenericAgent").

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenericAgentFile3'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::GenericAgent::Run',
  'Params' => [
    '--configuration-module',
    '<ModuleName>'
  ],
  'Schedule' => '*/*20 * * * *',
  'TaskName' => 'GenericAgentFile3'
};
```

Daemon::SchedulerCronTaskManager::Task###GenericAgentFile4

Run file based generic agent jobs (Note: module name need needs to be specified in -configuration-module param e.g. "Kernel::System::GenericAgent").

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenericAgentFile4'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::GenericAgent::Run',
  'Params' => [
    '--configuration-module',
    '<ModuleName>'
  ],
  'Schedule' => '*/*20 * * * *',
  'TaskName' => 'GenericAgentFile4'
};
```

Daemon::SchedulerCronTaskManager::Task###GenericAgentFile5

Run file based generic agent jobs (Note: module name need needs to be specified in -configuration-module param e.g. "Kernel::System::GenericAgent").

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'GenericAgentFile5'} = {
  'Function' => 'Execute',
  'MaximumParallelInstances' => '1',
  'Module' => 'Kernel::System::Console::Command::Maint::GenericAgent::Run',
  'Params' => [
```

```
'--configuration-module',
'<ModuleName>'
],
'Schedule' => '*/*20 * * * *',
'TaskName' => 'GenericAgentFile5'
};
```

Daemon::SchedulerCronTaskManager::Task###RegistrationUpdateSend

Sends registration information to OTRS group.

This setting can not be changed.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'RegistrationUpdateSend'} = {
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::Registration::UpdateSend',
'Params' => [],
'Schedule' => '30 * * * *',
'TaskName' => 'RegistrationUpdateSend'
};
```

Daemon::SchedulerCronTaskManager::Task###SupportDataCollectAsynchronous

Collect support data for asynchronous plug-in modules.

This setting can not be changed.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'SupportDataCollectAsynchronous'} =
{
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' =>
'Kernel::System::Console::Command::Maint::SupportData::CollectAsynchronous',
'Params' => [],
'Schedule' => '1 * * * *',
'TaskName' => 'SupportDataCollectAsynchronous'
};
```

Daemon::SchedulerCronTaskManager::Task###OTRSBusinessEntitlementCheck

Checks the entitlement status of OTRS Business Solution™.

This setting can not be changed.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'OTRSBusinessEntitlementCheck'} =
{
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
'Module' => 'Kernel::System::Console::Command::Maint::OTRSBusiness::EntitlementCheck',
'Params' => [],
'Schedule' => '25,45 */1 * * *',
'TaskName' => 'OTRSBusinessEntitlementCheck'
};
```

Daemon::SchedulerCronTaskManager::Task###OTRSBusinessAvailabilityCheck

Checks the availability of OTRS Business Solution™ for this system.

This setting can not be changed.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerCronTaskManager::Task'}->{'OTRSBusinessAvailabilityCheck'} =
{
'Function' => 'Execute',
'MaximumParallelInstances' => '1',
```

```
'Module' =>
'Kernel::System::Console::Command::Maint::OTRSBusiness::AvailabilityCheck',
'Params' => [],
'Schedule' => '15,35,55 */1 * * *',
'TaskName' => 'OTRSBusinessAvailabilityCheck'
};
```

Daemon → Daemon::SchedulerGenericAgentTaskManager

Daemon::SchedulerGenericAgentTaskManager::TicketLimit

Defines the maximum number of affected tickets per job.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerGenericAgentTaskManager::TicketLimit'} = '4000';
```

Daemon::SchedulerGenericAgentTaskManager::SleepTime

Defines a sleep time in microseconds between tickets while they are been processed by a job.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerGenericAgentTaskManager::SleepTime'} = '0';
```

Daemon → Daemon::SchedulerGenericInterfaceTaskManager

Daemon::SchedulerGenericInterfaceTaskManager::FutureTaskTimeDiff

Defines the default the number of seconds (from current time) to re-schedule a generic interface failed task.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerGenericInterfaceTaskManager::FutureTaskTimeDiff'} = '300';
```

Daemon → Daemon::SchedulerTaskWorker

Daemon::SchedulerTaskWorker::MaximumWorkers

Defines the maximum number of tasks to be executed as the same time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerTaskWorker::MaximumWorkers'} = '5';
```

Daemon::SchedulerTaskWorker::NotificationRecipientEmail

Specifies the email addresses to get notification messages from scheduler tasks.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Daemon::SchedulerTaskWorker::NotificationRecipientEmail'} = 'root@localhost';
```

Daemon → Frontend::Admin::ModuleRegistration

Frontend::Module###AgentDaemonInfo

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentDaemonInfo'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Title' => 'Shows information on how to start OTRS Daemon'
};
```

Daemon → Frontend::Agent::ModuleNotify

Frontend::NotifyModule###8000-Daemon-Check

Defines the module to display a notification in the agent interface if the OTRS Daemon is not running.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'8000-Daemon-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::DaemonCheck'
};
```

3. DynamicFields

DynamicFields → DynamicFields::Driver::Registration

DynamicFields::Driver###Text

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'Text'} = {
  'ConfigDialog' => 'AdminDynamicFieldText',
  'DisplayName' => 'Text',
  'Module' => 'Kernel::System::DynamicField::Driver::Text'
};
```

DynamicFields::Driver###TextArea

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'TextArea'} = {
  'ConfigDialog' => 'AdminDynamicFieldText',
  'DisplayName' => 'Textarea',
  'Module' => 'Kernel::System::DynamicField::Driver::TextArea'
};
```

DynamicFields::Driver###Checkbox

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'Checkbox'} = {
  'ConfigDialog' => 'AdminDynamicFieldCheckbox',
  'DisplayName' => 'Checkbox',
  'Module' => 'Kernel::System::DynamicField::Driver::Checkbox'
};
```

DynamicFields::Driver###Dropdown

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'Dropdown'} = {
  'ConfigDialog' => 'AdminDynamicFieldDropdown',
};
```

```
'DisplayName' => 'Dropdown',
'Module' => 'Kernel::System::DynamicField::Driver::Dropdown'
};
```

DynamicFields::Driver###DateTime

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'DateTime'} = {
  'ConfigDialog' => 'AdminDynamicFieldDateTime',
  'DisplayName' => 'Date / Time',
  'Module' => 'Kernel::System::DynamicField::Driver::DateTime'
};
```

DynamicFields::Driver###Date

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'Date'} = {
  'ConfigDialog' => 'AdminDynamicFieldDateTime',
  'DisplayName' => 'Date',
  'Module' => 'Kernel::System::DynamicField::Driver::Date'
};
```

DynamicFields::Driver###Multiselect

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'Multiselect'} = {
  'ConfigDialog' => 'AdminDynamicFieldMultiselect',
  'DisplayName' => 'Multiselect',
  'ItemSeparator' => ', ',
  'Module' => 'Kernel::System::DynamicField::Driver::Multiselect'
};
```

DynamicFields → DynamicFields::ObjectType::Registration

DynamicFields::ObjectType###CustomerCompany

DynamicField object registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::ObjectType'}->{'CustomerCompany'} = {
  'DisplayName' => 'Customer',
  'Module' => 'Kernel::System::DynamicField::ObjectType::CustomerCompany',
  'Prio' => '120',
  'UseObjectName' => '1'
};
```

DynamicFields::ObjectType###CustomerUser

DynamicField object registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::ObjectType'}->{'CustomerUser'} = {
  'DisplayName' => 'Customer User',
  'Module' => 'Kernel::System::DynamicField::ObjectType::CustomerUser',
  'Prio' => '130',
  'UseObjectName' => '1'
};
```

DynamicFields::ObjectType###Article

DynamicField object registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::ObjectType'}->{'Article'} = {
  'DisplayName' => 'Article',
  'Module' => 'Kernel::System::DynamicField::ObjectType::Article',
  'Prio' => '110'
};
```

DynamicFields::ObjectType###Ticket

DynamicField object registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::ObjectType'}->{'Ticket'} = {
  'DisplayName' => 'Ticket',
  'Module' => 'Kernel::System::DynamicField::ObjectType::Ticket',
  'Prio' => '100'
};
```

DynamicFields → Frontend::Admin::ModuleRegistration

Frontend::Module###AdminDynamicField

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicField'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.DynamicField.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.DynamicField.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Ticket',
    'Description' => 'Create and manage dynamic fields.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Dynamic Fields',
    'Prio' => '1000'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Dynamic Fields GUI'
};
```

Frontend::Module###AdminDynamicFieldText

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicFieldText'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.DynamicField.js',
      'Core.Agent.Admin.DynamicFieldText.js'
    ]
  },
  'Title' => 'Dynamic Fields Text Backend GUI'
};
```

Frontend::Module###AdminDynamicFieldCheckbox

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicFieldCheckbox'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.DynamicField.js',
      'Core.Agent.Admin.DynamicFieldCheckbox.js'
    ]
  },
  'Title' => 'Dynamic Fields Checkbox Backend GUI'
};
```

Frontend::Module###AdminDynamicFieldDropdown

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicFieldDropdown'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.DynamicField.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.DynamicField.js',
      'Core.Agent.Admin.DynamicFieldDropdown.js'
    ]
  },
  'Title' => 'Dynamic Fields Drop-down Backend GUI'
};
```

Frontend::Module###AdminDynamicFieldDateTime

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicFieldDateTime'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.DynamicField.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.DynamicField.js',
      'Core.Agent.Admin.DynamicFieldDateTime.js'
    ]
  },
  'Title' => 'Dynamic Fields Date Time Backend GUI'
};
```

Frontend::Module###AdminDynamicFieldMultiselect

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminDynamicFieldMultiselect'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.DynamicFieldMultiselect.js'
    ]
  },
  'Title' => 'Dynamic Fields Multiselect Backend GUI'
};
```



```
'Loader' => {
  'CSS' => [
    'Core.Agent.Admin.DynamicField.css'
  ],
  'JavaScript' => [
    'Core.Agent.Admin.DynamicField.js',
    'Core.Agent.Admin.DynamicFieldMultiselect.js'
  ]
},
'Title' => 'Dynamic Fields Multiselect Backend GUI'
};
```

DynamicFields → Frontend::Agent::Preferences

PreferencesGroups###DynamicField

Defines the config parameters of this item, to be shown in the preferences view.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'DynamicField'} = {
  'Active' => '1',
  'Block' => 'Input',
  'Column' => 'Other Settings',
  'Data' => "[% Env('UserDynamicField_NameX') %]",
  'Key' => 'Default value for NameX',
  'Label' => 'NameX',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserDynamicField_NameX',
  'Prio' => '7000'
};
```

PreferencesGroups###DynamicFieldsOverviewPageShown

Parameters for the pages (in which the dynamic fields are shown) of the dynamic fields overview.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'DynamicFieldsOverviewPageShown'} = {
  'Active' => '0',
  'Column' => 'Other Settings',
  'Data' => {
    '10' => '10',
    '15' => '15',
    '20' => '20',
    '25' => '25',
    '30' => '30',
    '35' => '35'
  },
  'DataSelected' => '25',
  'Key' => 'Dynamic fields limit per page for Dynamic Fields Overview',
  'Label' => 'Dynamic Fields Overview Limit',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'AdminDynamicFieldsOverviewPageShown',
  'Prio' => '8000'
};
```

4. Framework

Framework → Core

SecureMode

Disables the web installer (<http://yourhost.example.com/otrs/installer.pl>), to prevent the system from being hijacked. If set to "No", the system can be reinstalled and the current basic configuration will be used to pre-populate the questions within the

installer script. If not active, it also disables the GenericAgent, PackageManager and SQL Box.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SecureMode'} = '0';
```

Frontend::DebugMode

Enables or disables the debug mode over frontend interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::DebugMode'} = '0';
```

Frontend::AjaxDebug

Delivers extended debugging information in the frontend in case any AJAX errors occur, if enabled.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::AjaxDebug'} = '0';
```

Frontend::TemplateCache

Enables or disables the caching for templates. **WARNING: Do NOT disable template caching for production environments for it will cause a massive performance drop! This setting should only be disabled for debugging reasons!**

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::TemplateCache'} = '1';
```

ConfigLevel

Sets the configuration level of the administrator. Depending on the config level, some sysconfig options will be not shown. The config levels are in ascending order: Expert, Advanced, Beginner. The higher the config level is (e.g. Beginner is the highest), the less likely is it that the user can accidentally configure the system in a way that it is not usable any more.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ConfigLevel'} = '100';
```

ConfigImportAllowed

Controls if the admin is allowed to import a saved system configuration in SysConfig.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ConfigImportAllowed'} = '1';
```

ProductName

Defines the name of the application, shown in the web interface, tabs and title bar of the web browser.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ProductName'} = 'OTRS 6';
```

SystemID

Defines the system identifier. Every ticket number and http session string contains this ID. This ensures that only tickets which belong to your system will be processed as follow-ups (useful when communicating between two instances of OTRS).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SystemID'} = '10';
```

FQDN

Defines the fully qualified domain name of the system. This setting is used as a variable, OTRS_CONFIG_FQDN which is found in all forms of messaging used by the application, to build links to the tickets within your system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'FQDN'} = 'yourhost.example.com';
```

SupportDataCollector::HTTPHostname

Defines the HTTP hostname for the support data collection with the public module 'PublicSupportDataCollector' (e.g. used from the OTRS Daemon).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SupportDataCollector::HTTPHostname'} = '';
```

NodeID

Defines the cluster node identifier. This is only used in cluster configurations where there is more than one OTRS frontend system. Note: only values from 1 to 99 are allowed.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'NodeID'} = '1';
```

HttpType

Defines the type of protocol, used by the web server, to serve the application. If https protocol will be used instead of plain http, it must be specified here. Since this has no affect on the web server's settings or behavior, it will not change the method of access to the application and, if it is wrong, it will not prevent you from logging into the application. This setting is only used as a variable, OTRS_CONFIG_HttpType which is found in all forms of messaging used by the application, to build links to the tickets within your system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'HttpType'} = 'http';
```

ScriptAlias

Sets the prefix to the scripts folder on the server, as configured on the web server. This setting is used as a variable, OTRS_CONFIG_ScriptAlias which is found in all forms of messaging used by the application, to build links to the tickets within the system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ScriptAlias'} = 'otrs/';
```

AdminEmail

Defines the system administrator's email address. It will be displayed in the error screens of the application.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AdminEmail'} = 'admin@example.com';
```

Organization

Company name which will be included in outgoing emails as an X-Header.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Organization'} = 'Example Company';
```

DefaultLanguage

Defines the default front-end language. All the possible values are determined by the available language files on the system (see the next setting).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultLanguage'} = 'en';
```

DefaultUsedLanguages

Defines all the languages that are available to the application. Specify only English names of languages here.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultUsedLanguages'} = {  
  'ar_SA' => 'Arabic (Saudi Arabia)',  
  'bg' => 'Bulgarian',  
  'ca' => 'Catalan',  
  'cs' => 'Czech',  
  'da' => 'Danish',  
  'de' => 'German',  
  'el' => 'Greek',  
  'en' => 'English (United States)',  
  'en_CA' => 'English (Canada)',  
  'en_GB' => 'English (United Kingdom)',  
  'es' => 'Spanish',  
  'es_CO' => 'Spanish (Colombia)',  
  'es_MX' => 'Spanish (Mexico)',  
  'et' => 'Estonian',  
  'fa' => 'Persian',  
  'fi' => 'Finnish',  
  'fr' => 'French',  
  'fr_CA' => 'French (Canada)',  
  'gl' => 'Galician',  
  'he' => 'Hebrew',  
  'hi' => 'Hindi',  
  'hr' => 'Croatian',  
  'hu' => 'Hungarian',  
  'id' => 'Indonesian',
```

```
'it' => 'Italian',
'ja' => 'Japanese',
'lt' => 'Lithuanian',
'lv' => 'Latvian',
'ms' => 'Malay',
'nb_NO' => 'Norwegian',
'nl' => 'Nederlands',
'pl' => 'Polish',
'pt' => 'Portuguese',
'pt_BR' => 'Portuguese (Brasil)',
'ru' => 'Russian',
'sk_SK' => 'Slovak',
'sl' => 'Slovenian',
'sr_Cyrl' => 'Serbian Cyrillic',
'sr_Latn' => 'Serbian Latin',
'sv' => 'Swedish',
'sw' => 'Swahili',
'th_TH' => 'Thai',
'tr' => 'Turkish',
'uk' => 'Ukrainian',
'vi_VN' => 'Vietnam',
'zh_CN' => 'Chinese (Simplified)',
'zh_TW' => 'Chinese (Traditional)'
};
```

DefaultUsedLanguagesNative

Defines all the languages that are available to the application. Specify only native names of languages here.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultUsedLanguagesNative'} = {
  'ar_SA' => 'العَرَبِيَّةُ',
  'bg' => 'Български',
  'ca' => 'Català',
  'cs' => 'Česky',
  'da' => 'Dansk',
  'de' => 'Deutsch',
  'el' => 'Ελληνικά',
  'en' => 'English (United States)',
  'en_CA' => 'English (Canada)',
  'en_GB' => 'English (United Kingdom)',
  'es' => 'Español',
  'es_CO' => 'Español (Colombia)',
  'es_MX' => 'Español (México)',
  'et' => 'Eesti',
  'fa' => 'فارسی',
  'fi' => 'Suomi',
  'fr' => 'Français',
  'fr_CA' => 'Français (Canada)',
  'gl' => 'Galego',
  'he' => '#####',
  'hi' => '#####',
  'hr' => 'Hrvatski',
  'hu' => 'Magyar',
  'id' => 'Bahasa Indonesia',
  'it' => 'Italiano',
  'ja' => '日本語',
  'lt' => 'Lietuvių kalba',
  'lv' => 'Latvijas',
  'ms' => 'Melayu',
  'nb_NO' => 'Norsk bokmål',
  'nl' => 'Nederlandse',
  'pl' => 'Polski',
  'pt' => 'Português',
  'pt_BR' => 'Português Brasileiro',
  'ru' => 'Русский',
  'sk_SK' => 'Slovenčina',
  'sl' => 'Slovenščina',
```

```
'sr_Cyrl' => 'Српски',
'sr_Latn' => 'Srpski',
'sv' => 'Svenska',
'sw' => 'Kiswahili',
'th_TH' => '#####',
'tr' => 'Türkçe',
'uk' => 'Українська',
'vi_VN' => 'Việt Nam',
'zh_CN' => '简体中文',
'zh_TW' => '正體中文'
};
```

DefaultTheme

Defines the default front-end (HTML) theme to be used by the agents and customers. If you like, you can add your own theme. Please refer the administrator manual located at <http://otrs.github.io/doc/>.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultTheme'} = 'Standard';
```

DefaultTheme::HostBased

It is possible to configure different themes, for example to distinguish between agents and customers, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid theme on your system. Please see the example entries for the proper form of the regex.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DefaultTheme::HostBased'} = {
  'host1\\.example\\.com' => 'SomeTheme1',
  'host2\\.example\\.com' => 'SomeTheme2'
};
```

CheckMXRecord

Makes the application check the MX record of email addresses before sending an email or submitting a telephone or email ticket.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CheckMXRecord'} = '1';
```

CheckMXRecord::Nameserver

Defines the address of a dedicated DNS server, if necessary, for the "CheckMXRecord" look-ups.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CheckMXRecord::Nameserver'} = 'ns.example.com';
```

CheckEmailAddresses

Makes the application check the syntax of email addresses.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CheckEmailAddresses'} = '1';
```

CheckEmailValidAddress

Defines a regular expression that excludes some addresses from the syntax check (if "CheckEmailAddresses" is set to "Yes"). Please enter a regex in this field for email addresses, that aren't syntactically valid, but are necessary for the system (i.e. "root@localhost").

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CheckEmailValidAddress'} = '^(root@localhost|admin@localhost)$';
```

CheckEmailInvalidAddress

Defines a regular expression that filters all email addresses that should not be used in the application.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CheckEmailInvalidAddress'} = '@(example)\.\.(..|...)$';
```

CGILogPrefix

Specifies the text that should appear in the log file to denote a CGI script entry.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CGILogPrefix'} = 'OTRS-CGI';
```

DemoSystem

Runs the system in "Demo" mode. If set to "Yes", agents can change preferences, such as selection of language and theme via the agent web interface. These changes are only valid for the current session. It will not be possible for agents to change their passwords.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DemoSystem'} = '0';
```

OutOfOfficeMessageTemplate

Defines out of office message template. Two string parameters (%s) available: end date and number of days left.

Thamani chaguo-msingi:

```
$Self->{'OutOfOfficeMessageTemplate'} = '*** out of office until %s (%s d left) ***';
```

SwitchToUser

Allows the administrators to login as other users, via the users administration panel.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SwitchToUser'} = '0';
```

SwitchToCustomer

Allows the administrators to login as other customers, via the customer user administration panel.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SwitchToCustomer'} = '0';
```

SwitchToCustomer::PermissionGroup

Specifies the group where the user needs rw permissions so that he can access the "SwitchToCustomer" feature.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SwitchToCustomer::PermissionGroup'} = 'admin';
```

NotificationSenderName

Specifies the name that should be used by the application when sending notifications. The sender name is used to build the complete display name for the notification master (i.e. "OTRS Notifications" otrs@your.example.com).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationSenderName'} = 'OTRS Notifications';
```

NotificationSenderEmail

Specifies the email address that should be used by the application when sending notifications. The email address is used to build the complete display name for the notification master (i.e. "OTRS Notifications" otrs@your.example.com). You can use the OTRS_CONFIG_FQDN variable as set in your configuration, or choose another email address.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationSenderEmail'} = 'otrs@<OTRS_CONFIG_FQDN>';
```

System::Customer::Permission

Defines the standard permissions available for customers within the application. If more permissions are needed, you can enter them here. Permissions must be hard coded to be effective. Please ensure, when adding any of the afore mentioned permissions, that the "rw" permission remains the last entry.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'System::Customer::Permission'} = [  
  'ro',  
  'rw'  
];
```

LanguageDebug

Debugs the translation set. If this is set to "Yes" all strings (text) without translations are written to STDERR. This can be helpful when you are creating a new translation file. Otherwise, this option should remain set to "No".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LanguageDebug'} = '0';
```


Secure::DisableBanner

If enabled, the OTRS version tag will be removed from the Webinterface, the HTTP headers and the X-Headers of outgoing mails.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Secure::DisableBanner'} = '0';
```

Framework → Core::Cache

Cache::Module

Selects the cache backend to use.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Cache::Module'} = 'Kernel::System::Cache::FileStorable';
```

Cache::InMemory

Should the cache data be held in memory?

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Cache::InMemory'} = '1';
```

Cache::InBackend

Should the cache data be stored in the selected cache backend?

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Cache::InBackend'} = '1';
```

Cache::SubdirLevels

Specify how many sub directory levels to use when creating cache files. This should prevent too many cache files being in one directory.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Cache::SubdirLevels'} = '2';
```

Framework → Core::CustomerCompany

CustomerCompany::EventModulePost###2000-UpdateCustomerUsers

Event module that updates customer users after an update of the Customer.

Thamani chaguo-msingi:

```
$Self->{'CustomerCompany::EventModulePost'}->{'2000-UpdateCustomerUsers'} = {
  'Event' => 'CustomerCompanyUpdate',
  'Module' => 'Kernel::System::CustomerCompany::Event::CustomerUserUpdate',
  'Transaction' => '0'
};
```

CustomerCompany::EventModulePost###2100-UpdateDynamicFieldName

Event module that updates customer company object name for dynamic fields.

Thamani chaguo-msingi:

```
$Self->{'CustomerCompany::EventModulePost'}->{'2100-UpdateDynamicFieldObjectName'} = {
  'Event' => 'CustomerCompanyUpdate',
  'Module' => 'Kernel::System::CustomerCompany::Event::DynamicFieldObjectNameUpdate',
  'Transaction' => '0'
};
```

Framework → Core::CustomerUser

CustomerUser::EventModulePost###2100-UpdateSearchProfiles

Event module that updates customer user search profiles if login changes.

Thamani chaguo-msingi:

```
$Self->{'CustomerUser::EventModulePost'}->{'2100-UpdateSearchProfiles'} = {
  'Event' => 'CustomerUserUpdate',
  'Module' => 'Kernel::System::CustomerUser::Event::SearchProfileUpdate',
  'Transaction' => '0'
};
```

CustomerUser::EventModulePost###2200-UpdateServiceMembership

Event module that updates customer user service membership if login changes.

Thamani chaguo-msingi:

```
$Self->{'CustomerUser::EventModulePost'}->{'2200-UpdateServiceMembership'} = {
  'Event' => 'CustomerUserUpdate',
  'Module' => 'Kernel::System::CustomerUser::Event::ServiceMemberUpdate',
  'Transaction' => '0'
};
```

CustomerUser::EventModulePost###2000-UpdateDynamicFieldObjectName

Event module that updates customer user object name for dynamic fields.

Thamani chaguo-msingi:

```
$Self->{'CustomerUser::EventModulePost'}->{'2000-UpdateDynamicFieldObjectName'} = {
  'Event' => 'CustomerUserUpdate',
  'Module' => 'Kernel::System::CustomerUser::Event::DynamicFieldObjectNameUpdate',
  'Transaction' => '0'
};
```

Framework → Core::Fetchmail

Fetchmail::Bin

Defines the fall-back path to open fetchmail binary. Note: The name of the binary needs to be 'fetchmail', if it is different please use a symbolic link.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Fetchmail::Bin'} = '/usr/bin/fetchmail';
```

Framework → Core::LinkObject

LinkObject::ViewMode

Determines the way the linked objects are displayed in each zoom mask.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::ViewMode'} = 'Simple';
```

LinkObject::Type###Normal

Defines the link type 'Normal'. If the source name and the target name contain the same value, the resulting link is a non-directional one; otherwise, the result is a directional link.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::Type'}->{'Normal'} = {
  'SourceName' => 'Normal',
  'TargetName' => 'Normal'
};
```

LinkObject::Type###ParentChild

Defines the link type 'ParentChild'. If the source name and the target name contain the same value, the resulting link is a non-directional one; otherwise, the result is a directional link.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::Type'}->{'ParentChild'} = {
  'SourceName' => 'Parent',
  'TargetName' => 'Child'
};
```

LinkObject::TypeGroup###0001

Defines the link type groups. The link types of the same group cancel one another. Example: If ticket A is linked per a 'Normal' link with ticket B, then these tickets could not be additionally linked with link of a 'ParentChild' relationship.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::TypeGroup'}->{'0001'} = [
  'Normal',
  'ParentChild'
];
```

Framework → Core::Log

LogModule

Defines the log module for the system. "File" writes all messages in a given logfile, "SysLog" uses the syslog daemon of the system, e.g. syslogd.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LogModule'} = 'Kernel::System::Log::SysLog';
```

LogModule::SysLog::Facility

If "SysLog" was selected for LogModule, a special log facility can be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LogModule::SysLog::Facility'} = 'user';
```

LogModule::SysLog::Charset

If "SysLog" was selected for LogModule, the charset that should be used for logging can be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LogModule::SysLog::Charset'} = 'utf-8';
```

LogModule::LogFile

If "file" was selected for LogModule, a logfile must be specified. If the file doesn't exist, it will be created by the system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LogModule::LogFile'} = '/tmp/otrs.log';
```

LogModule::LogFile::Date

Adds a suffix with the actual year and month to the OTRS log file. A logfile for every month will be created.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LogModule::LogFile::Date'} = '0';
```

MinimumLogLevel

Set minimum loglevel. If you select 'error', just errors are logged. With 'debug' you get all logging messages.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'MinimumLogLevel'} = 'error';
```

Framework → Core::MIME-Viewer

MIME-Viewer###application/excel

Specifies the path to the converter that allows the view of Microsoft Excel files, in the web interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'MIME-Viewer'}->{'application/excel'} = 'xlhtml';
```

MIME-Viewer###application/msword

Specifies the path to the converter that allows the view of Microsoft Word files, in the web interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'MIME-Viewer'}->{'application/msword'} = 'wvWare';
```

MIME-Viewer###application/pdf

Specifies the path to the converter that allows the view of PDF documents, in the web interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'MIME-Viewer'}->{'application/pdf'} = 'pdftohtml -stdout -i';
```

MIME-Viewer###text/xml

Specifies the path to the converter that allows the view of XML files, in the web interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'MIME-Viewer'}->{'text/xml'} = '<OTRS_CONFIG_Home>/scripts/tools/xml2html.pl';
```

Framework → Core::MirrorDB

Core::MirrorDB::DSN

OTRS can use one or more readonly mirror databases for expensive operations like fulltext search or statistics generation. Here you can specify the DSN for the first mirror database.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::DSN'} = 'DBI:mysql:database=mirrordb;host=mirrordbhost';
```

Core::MirrorDB::User

Specify the username to authenticate for the first mirror database.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::User'} = 'some_user';
```

Core::MirrorDB::Password

Specify the password to authenticate for the first mirror database.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::Password'} = 'some_password';
```

Core::MirrorDB::AdditionalMirrors###1

Configure any additional readonly mirror databases that you want to use.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::AdditionalMirrors'}->{'1'} = {
  'DSN' => 'DBI:mysql:database=mirrordb;host=mirrordbhost',
  'Password' => 'some_password',
  'User' => 'some_user'
};
```

Core::MirrorDB::AdditionalMirrors###2

Configure any additional readonly mirror databases that you want to use.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::AdditionalMirrors'}->{'2'} = {
  'DSN' => 'DBI:mysql:database=mirrordb;host=mirrordbhost',
  'Password' => 'some_password',
  'User' => 'some_user'
};
```

Core::MirrorDB::AdditionalMirrors###3

Configure any additional readonly mirror databases that you want to use.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::AdditionalMirrors'}->{'3'} = {
  'DSN' => 'DBI:mysql:database=mirrordb;host=mirrordbhost',
  'Password' => 'some_password',
  'User' => 'some_user'
};
```

Core::MirrorDB::AdditionalMirrors###4

Configure any additional readonly mirror databases that you want to use.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::AdditionalMirrors'}->{'4'} = {
  'DSN' => 'DBI:mysql:database=mirrordb;host=mirrordbhost',
  'Password' => 'some_password',
  'User' => 'some_user'
};
```

Core::MirrorDB::AdditionalMirrors###5

Configure any additional readonly mirror databases that you want to use.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Core::MirrorDB::AdditionalMirrors'}->{'5'} = {
  'DSN' => 'DBI:mysql:database=mirrordb;host=mirrordbhost',
  'Password' => 'some_password',
  'User' => 'some_user'
};
```

Framework → Core::OTRSBusiness

OTRSBusiness::ReleaseChannel

Specify the channel to be used to fetch OTRS Business Solution™ updates. Warning: Development releases might not be complete, your system might experience unrecoverable errors and on extreme cases could become unresponsive!

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'OTRSBusiness::ReleaseChannel'} = '1';
```

Framework → Core::PDF

PDF::LogoFile

Specifies the path of the file for the logo in the page header (gif|jpg|png, 700 x 100 pixel).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::LogoFile'} = '<OTRS_CONFIG_Home>/var/logo-otrs.png';
```

PDF::PageSize

Defines the standard size of PDF pages.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::PageSize'} = 'a4';
```

PDF::MaxPages

Defines the maximum number of pages per PDF file.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::MaxPages'} = '100';
```

PDF::TTFontFile###Proportional

Defines the path and TTF-File to handle proportional font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'Proportional'} = 'DejaVuSans.ttf';
```

PDF::TTFontFile###ProportionalBold

Defines the path and TTF-File to handle bold proportional font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'ProportionalBold'} = 'DejaVuSans-Bold.ttf';
```

PDF::TTFontFile###ProportionalItalic

Defines the path and TTF-File to handle italic proportional font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'ProportionalItalic'} = 'DejaVuSans-Oblique.ttf';
```

PDF::TTFontFile###ProportionalBoldItalic

Defines the path and TTF-File to handle bold italic proportional font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'ProportionalBoldItalic'} = 'DejaVuSans-BoldOblique.ttf';
```

PDF::TTFontFile###Monospaced

Defines the path and TTF-File to handle monospaced font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'Monospaced'} = 'DejaVuSansMono.ttf';
```

PDF::TTFontFile###MonospacedBold

Defines the path and TTF-File to handle bold monospaced font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'MonospacedBold'} = 'DejaVuSansMono-Bold.ttf';
```

PDF::TTFontFile###MonospacedItalic

Defines the path and TTF-File to handle italic monospaced font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'MonospacedItalic'} = 'DejaVuSansMono-Oblique.ttf';
```

PDF::TTFontFile###MonospacedBoldItalic

Defines the path and TTF-File to handle bold italic monospaced font in PDF documents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PDF::TTFontFile'}->{'MonospacedBoldItalic'} = 'DejaVuSansMono-BoldOblique.ttf';
```

Framework → Core::Package

Package::FileUpload

Enables file upload in the package manager frontend.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Package::FileUpload'} = '1';
```

Package::RepositoryRoot

Defines the location to get online repository list for additional packages. The first available result will be used.

Thamani chaguo-msingi:

```
$Self->{'Package::RepositoryRoot'} = [
  'http://ftp.otrs.org/pub/otrs/misc/packages/repository.xml'
];
```

Package::RepositoryList

Defines the list of online repositories. Another installations can be used as repository, for example: Key="http://example.com/otrs/public.pl?Action=PublicRepository;File=" and Content="Some Name".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Package::RepositoryList'} = {
  'ftp://ftp.example.com/pub/otrs/misc/packages/' => '[Example] ftp://ftp.example.com/'
};
```

Package::RepositoryAccessRegExp

Defines the IP regular expression for accessing the local repository. You need to enable this to have access to your local repository and the package::RepositoryList is required on the remote host.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Package::RepositoryAccessRegExp'} = '127\\.0\\.0\\.1';
```


Package::Timeout

Sets the timeout (in seconds) for package downloads. Overwrites "WebUserAgent::Timeout".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Package::Timeout'} = '120';
```

Package::Proxy

Fetches packages via proxy. Overwrites "WebUserAgent::Proxy".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Package::Proxy'} = 'http://proxy.sn.no:8001/';
```

Package::AllowLocalModifications

If this setting is active, local modifications will not be highlighted as errors in the package manager and support data collector.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Package::AllowLocalModifications'} = '0';
```

Package::ShowFeatureAddons

Toggles display of OTRS FeatureAddons list in PackageManager.

Thamani chaguo-msingi:

```
$Self->{'Package::ShowFeatureAddons'} = '1';
```

Package::EventModulePost###9000-SupportDataSend

Package event module file a scheduler task for update registration.

Thamani chaguo-msingi:

```
$Self->{'Package::EventModulePost'}->{'9000-SupportDataSend'} = {  
  'Event' => '(PackageInstall|PackageReinstall|PackageUpgrade|PackageUninstall)',  
  'Module' => 'Kernel::System::Package::Event::SupportDataSend',  
  'Transaction' => '1'  
};
```

Framework → Core::PerformanceLog

PerformanceLog

Enables performance log (to log the page response time). It will affect the system performance. Frontend::Module###AdminPerformanceLog must be enabled.

Thamani chaguo-msingi:

```
$Self->{'PerformanceLog'} = '0';
```

PerformanceLog::File

Specifies the path of the file for the performance log.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PerformanceLog::File'} = '<OTRS_CONFIG_Home>/var/log/Performance.log';
```

PerformanceLog::FileMax

Defines the maximum size (in MB) of the log file.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PerformanceLog::FileMax'} = '25';
```

Framework → Core::ReferenceData

ReferenceData::OwnCountryList

This setting allows you to override the built-in country list with your own list of countries. This is particularly handy if you just want to use a small select group of countries.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'ReferenceData::OwnCountryList'} = {  
  'AT' => 'Austria',  
  'CH' => 'Switzerland',  
  'DE' => 'Germany'  
};
```

Framework → Core::SOAP

SOAP::User

Defines the username to access the SOAP handle (bin/cgi-bin/rpc.pl).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SOAP::User'} = 'some_user';
```

SOAP::Password

Defines the password to access the SOAP handle (bin/cgi-bin/rpc.pl).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SOAP::Password'} = 'some_pass';
```

SOAP::Keep-Alive

Enable keep-alive connection header for SOAP responses.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SOAP::Keep-Alive'} = '0';
```

Framework → Core::Sendmail

SendmailModule

Defines the module to send emails. "Sendmail" directly uses the sendmail binary of your operating system. Any of the "SMTP" mechanisms use a specified (external) mailserver. "DoNotSendEmail" doesn't send emails and it is useful for test systems.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule'} = 'Kernel::System::Email::Sendmail';
```

SendmailModule::CMD

If "Sendmail" was selected as SendmailModule, the location of the sendmail binary and the needed options must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule::CMD'} = '/usr/sbin/sendmail -i -f';
```

SendmailModule::Host

If any of the "SMTP" mechanisms was selected as SendmailModule, the mailhost that sends out the mails must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule::Host'} = 'mail.example.com';
```

SendmailModule::Port

If any of the "SMTP" mechanisms was selected as SendmailModule, the port where your mailserver is listening for incoming connections must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule::Port'} = '25';
```

SendmailModule::AuthUser

If any of the "SMTP" mechanisms was selected as SendmailModule, and authentication to the mail server is needed, an username must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule::AuthUser'} = 'MailserverLogin';
```

SendmailModule::AuthPassword

If any of the "SMTP" mechanisms was selected as SendmailModule, and authentication to the mail server is needed, a password must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailModule::AuthPassword'} = 'MailserverPassword';
```

SendmailBcc

Sends all outgoing email via bcc to the specified address. Please use this only for backup reasons.

Thamani chaguo-msingi:

```
$Self->{'SendmailBcc'} = '';
```

SendmailEnvelopeFrom

If set, this address is used as envelope sender in outgoing messages (not notifications - see below). If no address is specified, the envelope sender is equal to queue e-mail address.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailEnvelopeFrom'} = '';
```

SendmailNotificationEnvelopeFrom

If set, this address is used as envelope sender header in outgoing notifications. If no address is specified, the envelope sender header is empty.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailNotificationEnvelopeFrom'} = '';
```

SendmailEncodingForce

Forces encoding of outgoing emails (7bit|8bit|quoted-printable|base64).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SendmailEncodingForce'} = 'base64';
```

Sendmail::DefaultHeaders

Defines default headers for outgoing emails.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Sendmail::DefaultHeaders'} = {
  'Auto-Submitted:' => 'auto-generated',
  'Precedence:' => 'bulk'
};
```

Framework → Core::Session

SessionModule

Defines the module used to store the session data. With "DB" the frontend server can be splitted from the db server. "FS" is faster.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionModule'} = 'Kernel::System::AuthSession::DB';
```

SessionName

Defines the name of the session key. E.g. Session, SessionID or OTRS.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionName'} = 'OTRSAgentInterface';
```

CustomerPanelSessionName

Defines the name of the key for customer sessions.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSessionName'} = 'OTRSCustomerInterface';
```

SessionCheckRemoteIP

Turns on the remote ip address check. It should be set to "No" if the application is used, for example, via a proxy farm or a dialup connection, because the remote ip address is mostly different for the requests.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionCheckRemoteIP'} = '1';
```

SessionDeleteIfNotRemoteID

Deletes a session if the session id is used with an invalid remote IP address.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionDeleteIfNotRemoteID'} = '1';
```

SessionMaxTime

Defines the maximal valid time (in seconds) for a session id.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionMaxTime'} = '57600';
```

SessionMaxIdleTime

Sets the inactivity time (in seconds) to pass before a session is killed and a user is logged out.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionMaxIdleTime'} = '21600';
```

SessionActiveTime

Sets the time (in seconds) a user is marked as active (minimum active time is 300 seconds).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionActiveTime'} = '600';
```

SessionDeleteIfTimeToOld

Deletes requested sessions if they have timed out.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionDeleteIfTimeToOld'} = '1';
```

SessionUseCookie

Makes the session management use html cookies. If html cookies are disabled or if the client browser disabled html cookies, then the system will work as usual and append the session id to the links.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionUseCookie'} = '1';
```

SessionUseCookieAfterBrowserClose

Stores cookies after the browser has been closed.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionUseCookieAfterBrowserClose'} = '0';
```

SessionCSRFProtection

Protection against CSRF (Cross Site Request Forgery) exploits (for more info see http://en.wikipedia.org/wiki/Cross-site_request_forgery).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionCSRFProtection'} = '1';
```

AgentSessionLimitPriorWarning

Sets the maximum number of active agents within the timespan defined in SessionActiveTime before a prior warning will be visible for the logged in agents.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AgentSessionLimitPriorWarning'} = '90';
```

AgentSessionLimit

Sets the maximum number of active agents within the timespan defined in SessionActiveTime.

Thamani chaguo-msingi:

```
$Self->{'AgentSessionLimit'} = '100';
```

AgentSessionPerUserLimit

Sets the maximum number of active sessions per agent within the timespan defined in SessionActiveTime.

Thamani chaguo-msingi:

```
$Self->{'AgentSessionPerUserLimit'} = '20';
```

CustomerSessionLimit

Sets the maximum number of active customers within the timespan defined in SessionActiveTime.

Thamani chaguo-msingi:

```
$Self->{'CustomerSessionLimit'} = '100';
```

CustomerSessionPerUserLimit

Sets the maximum number of active sessions per customers within the timespan defined in SessionActiveTime.

Thamani chaguo-msingi:

```
$Self->{'CustomerSessionPerUserLimit'} = '20';
```

SessionDir

If "FS" was selected for SessionModule, a directory where the session data will be stored must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionDir'} = '<OTRS_CONFIG_Home>/var/sessions';
```

SessionTable

If "DB" was selected for SessionModule, a table in database where session data will be stored must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SessionTable'} = 'sessions';
```

Framework → Core::SpellChecker

SpellChecker

Enables spell checker support.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SpellChecker'} = '0';
```

SpellCheckerBin

Install ispell or aspell on the system, if you want to use a spell checker. Please specify the path to the aspell or ispell binary on your operating system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SpellCheckerBin'} = '/usr/bin/ispell';
```

SpellCheckerDictDefault

Defines the default spell checker dictionary.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SpellCheckerDictDefault'} = 'english';
```

SpellCheckerIgnore

Defines a default list of words, that are ignored by the spell checker.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SpellCheckerIgnore'} = [  
  'www',  
  'webmail',  
  'https',  
  'http',  
  'html',  
  'rfc'  
];
```

Framework → Core::Stats

Stats::StatsHook

Sets the stats hook.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::StatsHook'} = 'Stat#';
```

Stats::StatsStartNumber

Start number for statistics counting. Every new stat increments this number.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::StatsStartNumber'} = '10000';
```

Stats::MaxXaxisAttributes

Defines the default maximum number of X-axis attributes for the time scale.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Stats::MaxXaxisAttributes'} = '1000';
```

Framework → Core::Time

TimeInputFormat

Defines the date input format used in forms (option or input fields).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeInputFormat'} = 'Option';
```

TimeShowAlwaysLong

Shows time in long format (days, hours, minutes), if set to "Yes"; or in short format (days, hours), if set to "No".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeShowAlwaysLong'} = '0';
```

TimeZone

This setting is deprecated. Set OTRSTimeZone instead.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone'} = '+0';
```

OTRSTimeZone

Sets the time zone being used internally by OTRS to e. g. store dates and times in the database. **WARNING:** This setting must not be changed once set and tickets or any other data containing date/time have been created.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'OTRSTimeZone'} = 'UTC';
```

UserDefaultTimeZone

Sets the time zone that will be assigned to newly created users and will be used for users that haven't yet set a time zone. This is the time zone being used as default to convert date and time between the OTRS time zone and the user's time zone.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'UserDefaultTimeZone'} = 'UTC';
```

ShowUserTimeZoneSelectionNotification

If enabled, users that haven't selected a time zone yet will be notified to do so. Note: Notification will not be shown if (1) user has not yet selected a time zone and (2) OTRSTimeZone and UserDefaultTimeZone do match and (3) are not set to UTC.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ShowUserTimeZoneSelectionNotification'} = '1';
```

MaximumCalendarNumber

Maximum Number of a calendar shown in a dropdown.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'MaximumCalendarNumber'} = '50';
```

CalendarWeekDayStart

Define the start day of the week for the date picker.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart'} = '1';
```

TimeVacationDays

Adds the permanent vacation days. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
}
```

```
'5' => {  
  '1' => 'International Workers\' Day'  
}  
};
```

TimeVacationDaysOneTime

Adds the one time vacation days. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime'} = {  
  '2004' => {  
    '1' => {  
      '1' => 'test'  
    }  
  }  
};
```

TimeWorkingHours

Defines the hours and week days to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours'} = {  
  'Fri' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Mon' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Sat' => [],  
  'Sun' => [],  
  'Thu' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',
```

```
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
];
```

TimeShowCompleteDescription

Shows time use complete description (days, hours, minutes), if set to "Yes"; or just first letter (d, h, m), if set to "No".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeShowCompleteDescription'} = '0';
```

Framework → Core::Time::Calendar1

TimeZone::Calendar1Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar1Name'} = 'Calendar Name 1';
```

TimeZone::Calendar1

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar1'} = 'UTC';
```

CalendarWeekDayStart::Calendar1

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar1'} = '1';
```

TimeVacationDays::Calendar1

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar1'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar1

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar1'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar1

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar1'} = {
  'Fri' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
  ]
};
```

```
'19',  
'20'  
],  
'Mon' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Sat' => [],  
'Sun' => [],  
'Thu' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Tue' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Wed' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
]  
};
```

Framework → Core::Time::Calendar2

TimeZone::Calendar2Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar2Name'} = 'Calendar Name 2';
```

TimeZone::Calendar2

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar2'} = 'UTC';
```

CalendarWeekDayStart::Calendar2

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar2'} = '1';
```

TimeVacationDays::Calendar2

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar2'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar2

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar2'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar2

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar2'} = {  
  'Fri' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Mon' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Sat' => [],  
  'Sun' => [],  
  'Thu' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Tue' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Wed' => [  
    '8',  
    '9',  
    '10',  
    '11',  
  ]  
}
```

```
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
};
```

Framework → Core::Time::Calendar3

TimeZone::Calendar3Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar3Name'} = 'Calendar Name 3';
```

TimeZone::Calendar3

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar3'} = 'UTC';
```

CalendarWeekDayStart::Calendar3

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar3'} = '1';
```

TimeVacationDays::Calendar3

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar3'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar3

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar3'} = {  
  '2004' => {  
    '1' => {  
      '1' => 'test'  
    }  
  }  
};
```

TimeWorkingHours::Calendar3

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar3'} = {  
  'Fri' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Mon' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Sat' => [],  
  'Sun' => [],  
  'Thu' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Tue' => [  
    '8',  
    '9',  
    '10',
```

```
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
};
```

Framework → Core::Time::Calendar4

TimeZone::Calendar4Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar4Name'} = 'Calendar Name 4';
```

TimeZone::Calendar4

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar4'} = 'UTC';
```

CalendarWeekDayStart::Calendar4

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar4'} = '1';
```

TimeVacationDays::Calendar4

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar4'} = {
'1' => {
```

```
'1' => 'New Year\'s Day'
},
'12' => {
  '24' => 'Christmas Eve',
  '25' => 'First Christmas Day',
  '26' => 'Second Christmas Day',
  '31' => 'New Year\'s Eve'
},
'5' => {
  '1' => 'International Workers\' Day'
}
};
```

TimeVacationDaysOneTime::Calendar4

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar4'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar4

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar4'} = {
  'Fri' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Mon' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Sat' => [],
  'Sun' => [],
  'Thu' => [
```

```
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
];
```

Framework → Core::Time::Calendar5

TimeZone::Calendar5Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar5Name'} = 'Calendar Name 5';
```

TimeZone::Calendar5

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar5'} = 'UTC';
```

CalendarWeekDayStart::Calendar5

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar5'} = '1';
```

TimeVacationDays::Calendar5

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar5'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar5

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar5'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar5

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar5'} = {
  'Fri' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
};
```

```
],  
'Mon' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Sat' => [],  
'Sun' => [],  
'Thu' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Tue' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
],  
'Wed' => [  
  '8',  
  '9',  
  '10',  
  '11',  
  '12',  
  '13',  
  '14',  
  '15',  
  '16',  
  '17',  
  '18',  
  '19',  
  '20'  
]  
};
```

Framework → Core::Time::Calendar6

TimeZone::Calendar6Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar6Name'} = 'Calendar Name 6';
```

TimeZone::Calendar6

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar6'} = 'UTC';
```

CalendarWeekDayStart::Calendar6

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar6'} = '1';
```

TimeVacationDays::Calendar6

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar6'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar6

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar6'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar6

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar6'} = {  
  'Fri' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Mon' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Sat' => [],  
  'Sun' => [],  
  'Thu' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Tue' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Wed' => [  
    '8',  
    '9',  
    '10',  
    '11',
```



```
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
};
```

Framework → Core::Time::Calendar7

TimeZone::Calendar7Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar7Name'} = 'Calendar Name 7';
```

TimeZone::Calendar7

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar7'} = 'UTC';
```

CalendarWeekDayStart::Calendar7

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar7'} = '1';
```

TimeVacationDays::Calendar7

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar7'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar7

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar7'} = {  
  '2004' => {  
    '1' => {  
      '1' => 'test'  
    }  
  }  
};
```

TimeWorkingHours::Calendar7

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar7'} = {  
  'Fri' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Mon' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Sat' => [],  
  'Sun' => [],  
  'Thu' => [  
    '8',  
    '9',  
    '10',  
    '11',  
    '12',  
    '13',  
    '14',  
    '15',  
    '16',  
    '17',  
    '18',  
    '19',  
    '20'  
  ],  
  'Tue' => [  
    '8',  
    '9',  
    '10',
```

```
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
};
```

Framework → Core::Time::Calendar8

TimeZone::Calendar8Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar8Name'} = 'Calendar Name 8';
```

TimeZone::Calendar8

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar8'} = 'UTC';
```

CalendarWeekDayStart::Calendar8

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar8'} = '1';
```

TimeVacationDays::Calendar8

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar8'} = {
'1' => {
```

```
'1' => 'New Year\'s Day'
},
'12' => {
  '24' => 'Christmas Eve',
  '25' => 'First Christmas Day',
  '26' => 'Second Christmas Day',
  '31' => 'New Year\'s Eve'
},
'5' => {
  '1' => 'International Workers\' Day'
}
};
```

TimeVacationDaysOneTime::Calendar8

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar8'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar8

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar8'} = {
  'Fri' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Mon' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Sat' => [],
  'Sun' => [],
  'Thu' => [
```

```
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
];
```

Framework → Core::Time::Calendar9

TimeZone::Calendar9Name

Defines the name of the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar9Name'} = 'Calendar Name 9';
```

TimeZone::Calendar9

Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TimeZone::Calendar9'} = 'UTC';
```

CalendarWeekDayStart::Calendar9

Define the start day of the week for the date picker for the indicated calendar.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CalendarWeekDayStart::Calendar9'} = '1';
```

TimeVacationDays::Calendar9

Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDays::Calendar9'} = {
  '1' => {
    '1' => 'New Year\'s Day'
  },
  '12' => {
    '24' => 'Christmas Eve',
    '25' => 'First Christmas Day',
    '26' => 'Second Christmas Day',
    '31' => 'New Year\'s Eve'
  },
  '5' => {
    '1' => 'International Workers\' Day'
  }
};
```

TimeVacationDaysOneTime::Calendar9

Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeVacationDaysOneTime::Calendar9'} = {
  '2004' => {
    '1' => {
      '1' => 'test'
    }
  }
};
```

TimeWorkingHours::Calendar9

Defines the hours and week days of the indicated calendar, to count the working time.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TimeWorkingHours::Calendar9'} = {
  'Fri' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Mon' => [
```

```

    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Sat' => [],
  'Sun' => [],
  'Thu' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Tue' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
]
};

```

Framework → Core::Web

Frontend::WebPath

Defines the URL base path of icons, CSS and Java Script.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::WebPath'} = '/otrs-web/';
```

Frontend::ImagePath

Defines the URL image path of icons for navigation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ImagePath'} = '<OTRS_CONFIG_Frontend::WebPath>skins/Agent/default/img/';
```

Frontend::CSSPath

Defines the URL CSS path.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CSSPath'} = '<OTRS_CONFIG_Frontend::WebPath>css/';
```

Frontend::JavaScriptPath

Defines the URL java script path.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::JavaScriptPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/';
```

Frontend::RichText

Uses richtext for viewing and editing: articles, salutations, signatures, standard templates, auto responses and notifications.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichText'} = '1';
```

Frontend::RichTextPath

Defines the URL rich text editor path.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichTextPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/thirdparty/ckeditor-4.5.11/';
```

Frontend::RichTextWidth

Defines the width for the rich text editor component. Enter number (pixels) or percent value (relative).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichTextWidth'} = '620';
```

Frontend::RichTextHeight

Defines the height for the rich text editor component. Enter number (pixels) or percent value (relative).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichTextHeight'} = '320';
```

Frontend::RichText::DefaultCSS

Defines the default CSS used in rich text editors.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichText::DefaultCSS'} = 'font-family:Geneva,Helvetica,Arial,sans-serif; font-size: 12px;';
```

Frontend::RichText::EnhancedMode

Defines if the enhanced mode should be used (enables use of table, replace, subscript, superscript, paste from word, etc.).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichText::EnhancedMode'} = '0';
```

Frontend::RichText::EnhancedMode::Customer

Defines if the enhanced mode should be used (enables use of table, replace, subscript, superscript, paste from word, etc.) in customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::RichText::EnhancedMode::Customer'} = '0';
```

DisableIFrameOriginRestricted

Disable HTTP header "X-Frame-Options: SAMEORIGIN" to allow OTRS to be included as an IFrame in other websites. Disabling this HTTP header can be a security issue! Only disable it, if you know what you are doing!

Thamani chaguo-msingi:

```
$Self->{'DisableIFrameOriginRestricted'} = '0';
```

DisableContentSecurityPolicy

Disable HTTP header "Content-Security-Policy" to allow loading of external script contents. Disabling this HTTP header can be a security issue! Only disable it, if you know what you are doing!

Thamani chaguo-msingi:

```
$Self->{'DisableContentSecurityPolicy'} = '0';
```

DefaultViewNewLine

Automated line break in text messages after x number of chars.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultViewNewLine'} = '90';
```

DefaultViewLines

Sets the number of lines that are displayed in text messages (e.g. ticket lines in the QueueZoom).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultViewLines'} = '6000';
```

Frontend::MenuDragDropEnabled

Turns on drag and drop for the main navigation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::MenuDragDropEnabled'} = '1';
```

AttachmentDownloadType

Allows choosing between showing the attachments of a ticket in the browser (inline) or just make them downloadable (attachment).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AttachmentDownloadType'} = 'attachment';
```

WebMaxFileUpload

Defines the maximal size (in bytes) for file uploads via the browser. Warning: Setting this option to a value which is too low could cause many masks in your OTRS instance to stop working (probably any mask which takes input from the user).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'WebMaxFileUpload'} = '24000000';
```

WebUploadCacheModule

Selects the module to handle uploads via the web interface. "DB" stores all uploads in the database, "FS" uses the file system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'WebUploadCacheModule'} = 'Kernel::System::Web::UploadCache::DB';
```

Frontend::Output::FilterText###AAAURL

Defines the filter that processes the text in the articles, in order to highlight URLs.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::FilterText'}->{'AAAURL'} = {  
  'Module' => 'Kernel::Output::HTML::FilterText::URL',  
  'Templates' => {  
    'AgentTicketZoom' => '1'  
  }  
};
```

Frontend::Themes

Activates the available themes on the system. Value 1 means active, 0 means inactive.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Themes'} = {  
  'Lite' => '0',  
  'Standard' => '1'  
};
```

Frontend::Output::FilterText###OutputFilterTextAutoLink

Defines a filter to process the text in the articles, in order to highlight predefined keywords.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::FilterText'}->{'OutputFilterTextAutoLink'} = {
  'Module' => 'Kernel::Output::HTML::FilterText::AutoLink',
  'Templates' => {
    'AgentTicketZoom' => '1'
  }
};
```

Frontend::Output::OutputFilterTextAutoLink###CVE

Defines a filter for html output to add links behind CVE numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'CVE'} = {
  'RegExp' => [
    '(CVE|CAN)\{3,4}\{2,}'
  ],
  'Templates' => {
    'AgentTicketZoom' => '1'
  },
  'URL1' => {
    'Description' => 'Mitre',
    'Image' => 'http://cve.mitre.org/favicon.ico',
    'Target' => '_blank',
    'URL' => 'http://cve.mitre.org/cgi-bin/cvename.cgi?name=<MATCH1>-<MATCH2>-<MATCH3>'
  },
  'URL2' => {
    'Description' => 'Google',
    'Image' => 'http://www.google.de/favicon.ico',
    'Target' => '_blank',
    'URL' => 'http://google.com/search?q=<MATCH1>-<MATCH2>-<MATCH3>'
  },
  'URL3' => {
    'Description' => 'US-CERT NVD',
    'Image' => 'http://nvd.nist.gov/favicon.ico',
    'Target' => '_blank',
    'URL' => 'http://nvd.nist.gov/nvd.cfm?cvename=<MATCH1>-<MATCH2>-<MATCH3>'
  }
};
```

Frontend::Output::OutputFilterTextAutoLink###Bugtraq

Defines a filter for html output to add links behind bugtraq numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Bugtraq'} = {
  'RegExp' => [
    'Bugtraq[\s\\w\\t]*?ID[\s\\w\\t]*?:[\s\\w\\t]*?(\\d{2,8})',
    'Bugtraq[\s\\w\\t]*?ID[\s\\w\\t]*?(\\d{2,8})',
    'Bugtraq[\s\\w\\t]*?:[\s\\w\\t]*?(\\d{2,8})',
    'Bugtraq[\s\\w\\t]*?(\\d{2,8})',
    'BID[\s\\w\\t]*?:[\s\\w\\t]*?(\\d{2,8})',
  ],
};
```

```
'BID[\\s\\w\\t]*?(\\d{2,8})'
],
'Templates' => {
  'AgentTicketZoom' => '1'
},
'URL1' => {
  'Description' => 'Security Focus',
  'Image' => 'http://www.securityfocus.com/favicon.ico',
  'Target' => '_blank',
  'URL' => 'http://www.securityfocus.com/bid/<MATCH1>/info'
},
'URL2' => {
  'Description' => 'Google',
  'Image' => 'http://www.google.de/favicon.ico',
  'Target' => '_blank',
  'URL' => 'http://google.com/search?q=<MATCH>'
}
};
```

Frontend::Output::OutputFilterTextAutoLink###MSBulletins

Defines a filter for html output to add links behind MSBulletin numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'MSBulletins'} = {
  'RegExp' => [
    'MS[^A-Za-z]{0,5}(\\d\\d)?.?(\\d{2,4})'
  ],
  'Templates' => {
    'AgentTicketZoom' => '1'
  },
  'URL1' => {
    'Description' => 'Microsoft Technet',
    'Image' => 'http://www.microsoft.com/favicon.ico',
    'Target' => '_blank',
    'URL' => 'http://www.microsoft.com/technet/security/bulletin/MS<MATCH1>-<MATCH2>.mspx'
  },
  'URL2' => {
    'Description' => 'Google',
    'Image' => 'http://www.google.de/favicon.ico',
    'Target' => '_blank',
    'URL' => 'http://google.com/search?q=MS<MATCH1>-<MATCH2>'
  }
};
```

Frontend::Output::OutputFilterTextAutoLink###Setting1

Define a filter for html output to add links behind a defined string. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Setting1'} = {
  'RegExp' => [
    'RegExp'
  ],
  'Templates' => {
    'AgentTicketZoom' => '1'
  },
  'URL1' => {
    'Description' => 'Description',
```

```
'Image' => 'right-small.png',
'Target' => '_blank',
'URL' => 'URL'
},
'URL2' => {
  'Description' => 'Description',
  'Image' => 'Image',
  'Target' => '_blank',
  'URL' => 'URL'
}
};
```

Frontend::Output::OutputFilterTextAutoLink###Setting2

Defines a filter for html output to add links behind a defined string. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Setting2'} = {
  'RegExp' => [
    'RegExp'
  ],
  'Templates' => {
    'AgentTicketZoom' => '1'
  },
  'URL1' => {
    'Description' => 'Description',
    'Image' => 'right-small.png',
    'Target' => '_blank',
    'URL' => 'URL'
  },
  'URL2' => {
    'Description' => 'Description',
    'Image' => 'Image',
    'Target' => '_blank',
    'URL' => 'URL'
  },
  'URL3' => {
    'Description' => 'Description',
    'Image' => 'Image',
    'Target' => '_blank',
    'URL' => 'URL'
  }
};
```

Loader::Enabled::CSS

If enabled, OTRS will deliver all CSS files in minified form.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Enabled::CSS'} = '1';
```

Loader::Enabled::JS

If enabled, OTRS will deliver all JavaScript files in minified form.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Enabled::JS'} = '1';
```

Loader::Agent::CommonCSS###000-Framework

List of CSS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonCSS'}->{'000-Framework'} = [
  'Core.Reset.css',
  'Core.Default.css',
  'Core.Header.css',
  'Core.OverviewControl.css',
  'Core.OverviewSmall.css',
  'Core.OverviewMedium.css',
  'Core.OverviewLarge.css',
  'Core.Footer.css',
  'Core.PageLayout.css',
  'Core.Form.css',
  'Core.Table.css',
  'Core.Login.css',
  'Core.Widget.css',
  'Core.WidgetMenu.css',
  'Core.TicketDetail.css',
  'Core.Tooltip.css',
  'Core.Dialog.css',
  'Core.InputFields.css',
  'Core.Print.css',
  'Core.Animations.css'
];
```

Loader::Agent::ResponsiveCSS###000-Framework

List of responsive CSS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::ResponsiveCSS'}->{'000-Framework'} = [
  'Core.Responsive.css'
];
```

Loader::Agent::CommonJS###000-Framework

List of JS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonJS'}->{'000-Framework'} = [
  'thirdparty/jquery-3.1.1/jquery.js',
  'thirdparty/jquery-browser-detection/jquery-browser-detection.js',
  'thirdparty/jquery-ui-1.12.1/jquery-ui.js',
  'thirdparty/jquery-ui-touch-punch-0.2.3/jquery.ui.touch-punch.js',
  'thirdparty/jquery-validate-1.14.0/jquery.validate.js',
  'thirdparty/stacktrace-0.6.4/stacktrace.js',
  'thirdparty/jquery-pubsub/pubsub.js',
  'thirdparty/jquery-jstree-3.1.1/jquery.jstree.js',
  'thirdparty/nunjucks-2.4.2/nunjucks.js',
  'Core.Init.js',
  'Core.JavaScriptEnhancements.js',
  'Core.Debug.js',
  'Core.Exception.js',
  'Core.Data.js',
  'Core.Config.js',
  'Core.Language.js',
  'Core.Template.js',
  'Core.JSON.js',
  'Core.App.js',
  'Core.App.Responsive.js',
  'Core.AJAX.js',
  'Core.UI.js',
  'Core.UI.InputFields.js',
  'Core.UI.Accordion.js',
];
```

```
'Core.UI.Datepicker.js',
'Core.UI.DnD.js',
'Core.UI.Floater.js',
'Core.UI.Resizable.js',
'Core.UI.Table.js',
'Core.UI.Accessibility.js',
'Core.UI.RichTextEditor.js',
'Core.UI.Dialog.js',
'Core.UI.ActionRow.js',
'Core.UI.Popup.js',
'Core.UI.TreeSelection.js',
'Core.UI.Autocomplete.js',
'Core.Form.js',
'Core.Form.ErrorTooltips.js',
'Core.Form.Validate.js',
'Core.Agent.js',
'Core.Agent.Search.js',
'Core.Agent.CustomerInformationCenterSearch.js',
'Core.Agent.Header.js',
'Core.UI.Notification.js',
'Core.Agent.Responsive.js'
];
```

Loader::Agent::CommonJS###001-JQueryMigrate

List of JS files to always be loaded for the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonJS'}->{'001-JQueryMigrate'} = [
'thirdparty/jquery-migrate-3.0.0/jquery-migrate.js'
];
```

Loader::Agent::CommonJS###100-CKEditor

List of JS files to always be loaded for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::CommonJS'}->{'100-CKEditor'} = [
'thirdparty/ckeditor-4.5.11/ckeditor.js'
];
```

Loader::Customer::CommonCSS###000-Framework

List of CSS files to always be loaded for the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::CommonCSS'}->{'000-Framework'} = [
'Core.Reset.css',
'Core.Default.css',
'Core.Form.css',
'Core.Dialog.css',
'Core.Tooltip.css',
'Core.Login.css',
'Core.Control.css',
'Core.Table.css',
'Core.TicketZoom.css',
'Core.InputFields.css',
'Core.Print.css',
'Core.Animations.css'
];
```

Loader::Customer::ResponsiveCSS###000-Framework

List of responsive CSS files to always be loaded for the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::ResponsiveCSS'}->{'000-Framework'} = [
  'Core.Responsive.css'
];
```

Loader::Customer::CommonJS###000-Framework

List of JS files to always be loaded for the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::CommonJS'}->{'000-Framework'} = [
  'thirdparty/jquery-3.1.1/jquery.js',
  'thirdparty/jquery-browser-detection/jquery-browser-detection.js',
  'thirdparty/jquery-validate-1.14.0/jquery.validate.js',
  'thirdparty/jquery-ui-1.12.1/jquery-ui.js',
  'thirdparty/stacktrace-0.6.4/stacktrace.js',
  'thirdparty/jquery-pubsub/pubsub.js',
  'thirdparty/jquery-jstree-3.1.1/jquery.jstree.js',
  'thirdparty/nunjucks-2.4.2/nunjucks.js',
  'Core.Init.js',
  'Core.Debug.js',
  'Core.Exception.js',
  'Core.Data.js',
  'Core.JSON.js',
  'Core.JavaScriptEnhancements.js',
  'Core.Config.js',
  'Core.Language.js',
  'Core.Template.js',
  'Core.App.js',
  'Core.App.Responsive.js',
  'Core.AJAX.js',
  'Core.UI.js',
  'Core.UI.InputFields.js',
  'Core.UI.Accessibility.js',
  'Core.UI.Dialog.js',
  'Core.UI.RichTextEditor.js',
  'Core.UI.Datepicker.js',
  'Core.UI.Popup.js',
  'Core.UI.TreeSelection.js',
  'Core.UI.Autocomplete.js',
  'Core.Form.js',
  'Core.Form.ErrorTooltips.js',
  'Core.Form.Validate.js',
  'Core.Customer.js',
  'Core.Customer.Responsive.js'
];
```

Loader::Customer::CommonJS###001-JQueryMigrate

List of JS files to always be loaded for the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::CommonJS'}->{'001-JQueryMigrate'} = [
  'thirdparty/jquery-migrate-3.0.0/jquery-migrate.js'
];
```

Loader::Customer::CommonJS###100-CKEditor

List of JS files to always be loaded for the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Loader::Customer::CommonJS'}->{'100-CKEditor'} = [
'thirdparty/ckeditor-4.5.11/ckeditor.js'
];
```

Framework → Core::WebUserAgent

WebUserAgent::Timeout

Sets the timeout (in seconds) for http/ftp downloads.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'WebUserAgent::Timeout'} = '15';
```

WebUserAgent::Proxy

Defines the connections for http/ftp, via a proxy.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'WebUserAgent::Proxy'} = 'http://proxy.sn.no:8001/';
```

WebUserAgent::DisableSSLVerification

Turns off SSL certificate validation, for example if you use a transparent HTTPS proxy. Use at your own risk!

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'WebUserAgent::DisableSSLVerification'} = '0';
```

Framework → Crypt::PGP

PGP

Enables PGP support. When PGP support is enabled for signing and encrypting mail, it is HIGHLY recommended that the web server runs as the OTRS user. Otherwise, there will be problems with the privileges when accessing .gnupg folder.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP'} = '0';
```

PGP::Bin

Defines the path to PGP binary.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::Bin'} = '/usr/bin/gpg';
```

PGP::Options

Sets the options for PGP binary.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::Options'} = '--homedir /opt/otrs/.gnupg/ --batch --no-tty --yes';
```

PGP::Options::DigestPreference

Sets the preferred digest to be used for PGP binary.

Thamani chaguo-msingi:

```
$Self->{'PGP::Options::DigestPreference'} = 'sha256';
```

PGP::Key::Password

Sets the password for private PGP key.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::Key::Password'} = {  
  '488A0B8F' => 'SomePassword',  
  'D2DF79FA' => 'SomePassword'  
};
```

PGP::TrustedNetwork

Set this to yes if you trust in all your public and private pgp keys, even if they are not certified with a trusted signature.

Thamani chaguo-msingi:

```
$Self->{'PGP::TrustedNetwork'} = '0';
```

PGP::Log

Configure your own log text for PGP.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::Log'} = {  
  'BADSIG' => 'The PGP signature with the keyid has not been verified successfully.',  
  'ERRSIG' => 'It was not possible to check the PGP signature, this may be caused by a  
missing public key or an unsupported algorithm.',  
  'EXPKEYSIG' => 'The PGP signature was made by an expired key.',  
  'GOODSIG' => 'Good PGP signature.',  
  'KEYREVOKED' => 'The PGP signature was made by a revoked key, this could mean that the  
signature is forged.',  
  'NODATA' => 'No valid OpenPGP data found.',  
  'NO_PUBKEY' => 'No public key found.',  
  'REVKEYSIG' => 'The PGP signature was made by a revoked key, this could mean that the  
signature is forged.',  
  'SIGEXPIRED' => 'The PGP signature is expired.',  
  'SIG_ID' => 'Signature data.',  
  'TRUST_UNDEFINED' => 'This key is not certified with a trusted signature!.',  
  'VALIDSIG' => 'The PGP signature with the keyid is good.'  
};
```

PGP::StoreDecryptedData

If this option is enabled, then the decrypted data will be stored in the database if they are displayed in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::StoreDecryptedData'} = '1';
```

PGP::Method

Sets the method PGP will use to sign and encrypt emails. Note Inline method is not compatible with RichText messages.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PGP::Method'} = 'Detached';
```

Framework → Crypt::SMIME

SMIME

Enables S/MIME support.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME'} = '0';
```

SMIME::Bin

Defines the path to open ssl binary. It may need a HOME env (\$ENV{HOME} = '/var/lib/wwrun;').

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::Bin'} = '/usr/bin/openssl';
```

SMIME::CertPath

Specifies the directory where SSL certificates are stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::CertPath'} = '/etc/ssl/certs';
```

SMIME::PrivatePath

Specifies the directory where private SSL certificates are stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::PrivatePath'} = '/etc/ssl/private';
```

SMIME::CacheTTL

Cache time in seconds for the SSL certificate attributes.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::CacheTTL'} = '86400';
```

SMIME::StoreDecryptedData

If this option is enabled, then the decrypted data will be stored in the database if they are displayed in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::StoreDecryptedData'} = '1';
```

SMIME::FetchFromCustomer

Enables fetch S/MIME from CustomerUser backend support.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SMIME::FetchFromCustomer'} = '0';
```

Framework → CustomerInformationCenter

AgentCustomerInformationCenter::MainMenu###010-EditCustomerID

Main menu registration.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::MainMenu'}->{'010-EditCustomerID'} = {
  'Link' => "[% Env("BaseLink")
%]Action=AdminCustomerCompany;Subaction=Change;CustomerID=[% Data.CustomerID | uri
%];Nav=0',
  'Name' => 'Edit customer company'
};
```

Framework → Frontend::Admin

Events###Package

List of all Package events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'Package'} = [
  'PackageInstall',
  'PackageReinstall',
  'PackageUpgrade',
  'PackageUninstall'
];
```

Events###DynamicField

List of all DynamicField events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'DynamicField'} = [
  'DynamicFieldAdd',
  'DynamicFieldUpdate',
  'DynamicFieldDelete'
];
```

Events###CustomerUser

List of all CustomerUser events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'CustomerUser'} = [
  'CustomerUserAdd',
  'CustomerUserUpdate'
];
```

Events###CustomerCompany

List of all CustomerCompany events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'CustomerCompany'} = [
  'CustomerCompanyAdd',
  'CustomerCompanyUpdate'
];
```

Framework → Frontend::Admin::AdminCustomerCompany

AdminCustomerCompany::RunInitialWildcardSearch

Runs an initial wildcard search of the existing customer company when accessing the AdminCustomerCompany module.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AdminCustomerCompany::RunInitialWildcardSearch'} = '1';
```

Framework → Frontend::Admin::AdminCustomerUser

AdminCustomerUser::RunInitialWildcardSearch

Runs an initial wildcard search of the existing customer users when accessing the AdminCustomerUser module.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AdminCustomerUser::RunInitialWildcardSearch'} = '1';
```

Framework → Frontend::Admin::AdminSelectBox

AdminSelectBox::AllowDatabaseModification

Controls if the admin is allowed to make changes to the database via AdminSelectBox.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AdminSelectBox::AllowDatabaseModification'} = '0';
```

Framework → Frontend::Admin::ModuleRegistration

Frontend::Module###Admin

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'Admin'} = {
  'Description' => 'Admin Area.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.SysConfig.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'a',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=Admin',
    }
  ]
}
```

```

    'LinkOption' => '',
    'Name' => 'Admin',
    'NavBar' => 'Admin',
    'Prio' => '10000',
    'Type' => 'Menu'
  }
],
'NavBarModule' => {
  'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin'
},
'NavBarName' => 'Admin',
'Title' => ''
};

```

Frontend::Module###AdminInit

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminInit'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'NavBarName' => '',
  'Title' => 'Init'
};

```

Frontend::Module###AdminUser

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminUser'} = {
  'Description' => 'Create and manage agents.',
  'Group' => [
    'admin'
  ],
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Create and manage agents.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Agents',
    'Prio' => '100'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Agents'
};

```

Frontend::Module###AdminGroup

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGroup'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Group.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Create and manage groups.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Groups',
    'Prio' => '150'
  },
};

```

```
'NavBarName' => 'Admin',
'Title' => 'Groups'
};
```

Frontend::Module###AdminUserGroup

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminUserGroup'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.UserGroup.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Link agents to groups.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Agents ↔ Groups',
    'Prio' => '200'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Agents ↔ Groups'
};
```

Frontend::Module###AdminCustomerUser

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminCustomerUser'} = {
  'Description' => 'Edit Customer Users.',
  'Group' => [
    'admin',
    'users'
  ],
  'GroupRo' => [
    ''
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.Admin.CustomerUser.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => '',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AdminCustomerUser;Nav=Agent',
      'LinkOption' => '',
      'Name' => 'Customer User Administration',
      'NavBar' => 'Customers',
      'Prio' => '9000',
      'Type' => ''
    }
  ],
  'NavBarModule' => {
    'Block' => 'Customer',
    'Description' => 'Create and manage customer users.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Customer User',
    'Prio' => '300'
  },
  'NavBarName' => 'Customers',
};
```

```
'Title' => 'Customer Users'
};
```

Frontend::Module###AdminCustomerCompany

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminCustomerCompany'} = {
  'Description' => 'Edit Customer Companies.',
  'Group' => [
    'admin',
    'users'
  ],
  'GroupRo' => [
    ''
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.CustomerCompany.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => '',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AdminCustomerCompany;Nav=Agent',
      'LinkOption' => '',
      'Name' => 'Customer Administration',
      'NavBar' => 'Customers',
      'Prio' => '9100',
      'Type' => ''
    }
  ],
  'NavBarModule' => {
    'Block' => 'Customer',
    'Description' => 'Create and manage customers.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Customers',
    'Prio' => '310'
  },
  'NavBarName' => 'Customers',
  'Title' => 'Customer Companies'
};
```

Frontend::Module###AdminCustomerUserGroup

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminCustomerUserGroup'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.CustomerUserGroup.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Customer',
    'Description' => 'Link customer user to groups.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Customer User ↔ Groups',
    'Prio' => '400'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Customers ↔ Groups'
};
```


Frontend::Module###AdminCustomerUserService

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminCustomerUserService'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.CustomerUserService.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Customer',
    'Description' => 'Link customer user to services.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Customer User ↔ Services',
    'Prio' => '500'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Customer User ↔ Services'
};
```

Frontend::Module###AdminRole

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminRole'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Role.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Create and manage roles.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Roles',
    'Prio' => '600'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Roles'
};
```

Frontend::Module###AdminRoleUser

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminRoleUser'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.RoleUser.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Link agents to roles.',
  }
```

```

    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Agents ↔ Roles',
    'Prio' => '700'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Agents ↔ Roles'
};

```

Frontend::Module###AdminRoleGroup

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminRoleGroup'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.RoleGroup.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Agent',
    'Description' => 'Link roles to groups.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Roles ↔ Groups',
    'Prio' => '800'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Roles ↔ Groups'
};

```

Frontend::Module###AdminSMIME

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSMIME'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.SMIME.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Email',
    'Description' => 'Manage S/MIME certificates for email encryption.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'S/MIME Certificates',
    'Prio' => '1100'
  },
  'NavBarName' => 'Admin',
  'Title' => 'S/MIME Management'
};

```

Frontend::Module###AdminPGP

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminPGP'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  ],

```

```
'NavBarModule' => {
  'Block' => 'Email',
  'Description' => 'Manage PGP keys for email encryption.',
  'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
  'Name' => 'PGP Keys',
  'Prio' => '1200'
},
'NavBarName' => 'Admin',
'Title' => 'PGP Key Management'
};
```

Frontend::Module###AdminMailAccount

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminMailAccount'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.MailAccount.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Email',
    'Description' => 'Manage POP3 or IMAP accounts to fetch email from.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'PostMaster Mail Accounts',
    'Prio' => '100'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Mail Accounts'
};
```

Frontend::Module###AdminPostMasterFilter

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminPostMasterFilter'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.PostMasterFilter.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.PostMasterFilter.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Email',
    'Description' => 'Filter incoming emails.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'PostMaster Filters',
    'Prio' => '200'
  },
  'NavBarName' => 'Admin',
  'Title' => 'PostMaster Filters'
};
```

Frontend::Module###AdminEmail

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminEmail'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Send notifications to users.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Admin Notification',
    'Prio' => '400'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Admin Notification'
};

```

Frontend::Module###AdminSession

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSession'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Session.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Manage existing sessions.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Session Management',
    'Prio' => '500'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Session Management'
};

```

Frontend::Module###AdminPerformanceLog

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminPerformanceLog'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.PerformanceLog.css'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'View performance benchmark results.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Performance Log',
    'Prio' => '550'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Performance Log'
};

```

Frontend::Module###AdminRegistration

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminRegistration'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.Registration.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.Registration.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Manage system registration.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'System Registration',
    'Prio' => '350'
  },
  'NavBarName' => 'Admin',
  'Title' => 'System Registration'
};
```

Frontend::Module###AdminOTRSBusiness

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminOTRSBusiness'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.OTRSBusiness.css'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Deploy and manage OTRS Business Solution™.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'OTRS Business Solution™',
    'Prio' => '360'
  },
  'NavBarName' => 'Admin',
  'Title' => 'OTRS Business Solution™'
};
```

Frontend::Module###AdminSupportDataCollector

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminSupportDataCollector'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.SupportDataCollector.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.SupportDataCollector.js'
    ]
  },
  'NavBarModule' => {
```

```
'Block' => 'System',
'Description' => 'Manage support data.',
'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
'Name' => 'Support Data Collector',
'Prio' => '370'
},
'NavBarName' => 'Admin',
'Title' => 'Support Data Collector'
};
```

Frontend::Module###AdminCloudServices

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminCloudServices'} = {
'Description' => 'Admin',
'Group' => [
'admin'
],
'Loader' => {
'CSS' => [
'Core.Agent.Admin.CloudServices.css'
]
},
'NavBarModule' => {
'Block' => 'System',
'Description' => 'Manage OTRS Group cloud services.',
'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
'Name' => 'Cloud Services',
'Prio' => '380'
},
'NavBarName' => 'Admin',
'Title' => 'Cloud Services'
};
```

Frontend::Module###AdminLog

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminLog'} = {
'Description' => 'Admin',
'Group' => [
'admin'
],
'Loader' => {
'JavaScript' => [
'Core.Agent.Admin.Log.js'
]
},
'NavBarModule' => {
'Block' => 'System',
'Description' => 'View system log messages.',
'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
'Name' => 'System Log',
'Prio' => '600'
},
'NavBarName' => 'Admin',
'Title' => 'System Log'
};
```

Frontend::Module###AdminSelectBox

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminSelectBox'} = {
'Description' => 'Admin',
'Group' => [
```

```

    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.SelectBox.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Execute SQL statements.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'SQL Box',
    'Prio' => '700'
  },
  'NavBarName' => 'Admin',
  'Title' => 'SQL Box'
};

```

Frontend::Module###AdminPackageManager

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminPackageManager'} = {
  'Description' => 'Software Package Manager.',
  'Group' => [
    'admin'
  ],
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Update and extend your system with software packages.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Package Manager',
    'Prio' => '1000'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Package Manager'
};

```

Frontend::Module###AdminSystemMaintenance

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSystemMaintenance'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.SystemMaintenance.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Schedule a maintenance period.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'System Maintenance',
    'Prio' => '501'
  },
  'NavBarName' => 'Admin',
  'Title' => 'System Maintenance'
};

```

Frontend::Module###AdminCloudServiceSupportDataCollector

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminCloudServiceSupportDataCollector'} = {

```

```
'Description' => 'Admin',
'Group' => [
  'admin'
],
'Loader' => {
  'CSS' => [
    'Core.Agent.Admin.CloudService.SupportDataCollector.css'
  ]
},
'Title' => 'Support data collector'
};
```

Framework → Frontend::Agent

AgentLogo

The logo shown in the header of the agent interface. The URL to the image can be a relative URL to the skin image directory, or a full URL to a remote web server.

Thamani chaguo-msingi:

```
$Self->{'AgentLogo'} = {
  'StyleHeight' => '85px',
  'StyleRight' => '38px',
  'StyleTop' => '4px',
  'StyleWidth' => '270px',
  'URL' => 'skins/Agent/default/img/logo_bg.png'
};
```

AgentLogoCustom###default

The logo shown in the header of the agent interface for the skin "default". See "Agent-Logo" for further description.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AgentLogoCustom'}->{'default'} = {
  'StyleHeight' => '67px',
  'StyleRight' => '38px',
  'StyleTop' => '4px',
  'StyleWidth' => '270px',
  'URL' => 'skins/Agent/default/img/logo_bg.png'
};
```

AgentLogoCustom###slim

The logo shown in the header of the agent interface for the skin "slim". See "Agent-Logo" for further description.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AgentLogoCustom'}->{'slim'} = {
  'StyleHeight' => '67px',
  'StyleRight' => '38px',
  'StyleTop' => '4px',
  'StyleWidth' => '270px',
  'URL' => 'skins/Agent/default/img/logo_bg.png'
};
```

AgentLogoCustom###ivory

The logo shown in the header of the agent interface for the skin "ivory". See "Agent-Logo" for further description.

This setting is not active by default.

Thamani chaguo-msingi:


```
$Self->{'AgentLogoCustom'}->{'ivory'} = {
  'StyleHeight' => '67px',
  'StyleRight' => '38px',
  'StyleTop' => '4px',
  'StyleWidth' => '270px',
  'URL' => 'skins/Agent/default/img/logo_bg.png'
};
```

AgentLogoCustom###ivory-slim

The logo shown in the header of the agent interface for the skin "ivory-slim". See "AgentLogo" for further description.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AgentLogoCustom'}->{'ivory-slim'} = {
  'StyleHeight' => '67px',
  'StyleRight' => '38px',
  'StyleTop' => '4px',
  'StyleWidth' => '270px',
  'URL' => 'skins/Agent/default/img/logo_bg.png'
};
```

AgentLoginLogo

The logo shown on top of the login box of the agent interface. The URL to the image must be relative URL to the skin image directory.

Thamani chaguo-msingi:

```
$Self->{'AgentLoginLogo'} = {
  'StyleHeight' => '70px',
  'URL' => 'skins/Agent/default/img/loginlogo_default.png'
};
```

LoginURL

Defines an alternate URL, where the login link refers to.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'LoginURL'} = 'http://host.example.com/login.html';
```

LogoutURL

Defines an alternate URL, where the logout link refers to.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'LogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';
```

PreApplicationModule###AgentInfo

Defines a useful module to load specific user options or to display news.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PreApplicationModule'}->{'AgentInfo'} = 'Kernel::Modules::AgentInfo';
```

InfoKey

Defines the key to be checked with Kernel::Modules::AgentInfo module. If this user preferences key is true, the message is accepted by the system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'InfoKey'} = 'wpt22';
```

InfoFile

File that is displayed in the Kernel::Modules::AgentInfo module, if located under Kernel/Output/HTML/Templates/Standard/AgentInfo.tt.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'InfoFile'} = 'AgentInfo';
```

LostPassword

Activates lost password feature for agents, in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LostPassword'} = '1';
```

ShowMotd

Shows the message of the day on login screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ShowMotd'} = '0';
```

NotificationSubjectLostPasswordToken

Defines the subject for notification mails sent to agents, with token about new requested password.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationSubjectLostPasswordToken'} = 'New OTRS password request';
```

NotificationBodyLostPasswordToken

Defines the body text for notification mails sent to agents, with token about new requested password (after using this link the new password will be sent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationBodyLostPasswordToken'} = 'Hi <OTRS_USERFIRSTNAME>,  
  
You or someone impersonating you has requested to change your OTRS  
password.  
  
If you want to do this, click on the link below. You will receive another email  
containing the password.  
  
<OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/<OTRS_CONFIG_ScriptAlias>index.pl?  
Action=LostPassword;Token=<OTRS_TOKEN>  
  
If you did not request a new password, please ignore this email.  
';
```

NotificationSubjectLostPassword

Defines the subject for notification mails sent to agents, about new password.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationSubjectLostPassword'} = 'New OTRS password';
```

NotificationBodyLostPassword

Defines the body text for notification mails sent to agents, about new password (after using this link the new password will be sent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NotificationBodyLostPassword'} = 'Hi <OTRS_USERFIRSTNAME>,  
  
Here\'s your new OTRS password.  
New password: <OTRS_NEWPW>  
You can log in via the following URL:  
<OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/<OTRS_CONFIG_ScriptAlias>index.pl  
';
```

OpenMainMenuOnHover

If enabled, the first level of the main menu opens on mouse hover (instead of click only).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'OpenMainMenuOnHover'} = '0';
```

FirstnameLastnameOrder

Specifies the order in which the firstname and the lastname of agents will be displayed.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'FirstnameLastnameOrder'} = '0';
```

Loader::Agent::Skin###000-default

Default skin for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::Skin'}->{'000-default'} = {  
  'Description' => 'This is the default orange - black skin.',  
  'HomePage' => 'www.otrs.org',  
  'InternalName' => 'default',  
  'VisibleName' => 'Default'  
};
```

Loader::Agent::Skin###001-slim

Default skin for the agent interface (slim version).

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::Skin'}->{'001-slim'} = {  
  'Description' => '"Slim" skin which tries to save screen space for power users.',  
  'HomePage' => 'www.otrs.org',  
  'InternalName' => 'slim',  
  'VisibleName' => 'Default (Slim)'  
};
```

Loader::Agent::Skin###001-ivory

Balanced white skin by Felix Niklas.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::Skin'}->{'001-ivory'} = {
  'Description' => 'Balanced white skin by Felix Niklas.',
  'HomePage' => 'www.felixniklas.de',
  'InternalName' => 'ivory',
  'VisibleName' => 'Ivory'
};
```

Loader::Agent::Skin###001-ivory-slim

Balanced white skin by Felix Niklas (slim version).

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::Skin'}->{'001-ivory-slim'} = {
  'Description' => 'Balanced white skin by Felix Niklas (slim version).',
  'HomePage' => 'www.felixniklas.de',
  'InternalName' => 'ivory-slim',
  'VisibleName' => 'Ivory (Slim)'
};
```

Loader::Agent::DefaultSelectedSkin

The agent skin's InternalName which should be used in the agent interface. Please check the available skins in Frontend::Agent::Skins.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::DefaultSelectedSkin'} = 'default';
```

Loader::Agent::DefaultSelectedSkin::HostBased

It is possible to configure different skins, for example to distinguish between different agents, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid skin on your system. Please see the example entries for the proper form of the regex.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Loader::Agent::DefaultSelectedSkin::HostBased'} = {
  'host1\\.example\\.com' => 'SomeSkin1',
  'host2\\.example\\.com' => 'SomeSkin2'
};
```

AutoComplete::Agent###Default

Defines the config options for the autocompletion feature.

Thamani chaguo-msingi:

```
$Self->{'AutoComplete::Agent'}->{'Default'} = {
  'AutoCompleteActive' => '1',
  'ButtonText' => 'Search',
  'MaxResultsDisplayed' => '20',
  'MinQueryLength' => '2',
  'QueryDelay' => '100'
};
```

AutoComplete::Agent###CustomerSearch

Defines the config options for the autocompletion feature.

Thamani chaguo-msingi:

```
$Self->{'AutoComplete::Agent'}->{'CustomerSearch'} = {
  'AutoCompleteActive' => '1',
  'ButtonText' => 'Search Customer',
  'MaxResultsDisplayed' => '20',
  'MinQueryLength' => '2',
  'QueryDelay' => '100'
};
```

AutoComplete::Agent###UserSearch

Defines the config options for the autocomplete feature.

Thamani chaguo-msingi:

```
$Self->{'AutoComplete::Agent'}->{'UserSearch'} = {
  'AutoCompleteActive' => '1',
  'ButtonText' => 'Search User',
  'MaxResultsDisplayed' => '20',
  'MinQueryLength' => '2',
  'QueryDelay' => '100'
};
```

PossibleNextActions

Defines the list of possible next actions on an error screen, a full path is required, then is possible to add external links if needed.

Thamani chaguo-msingi:

```
$Self->{'PossibleNextActions'} = {
  '[% Env(\'CGIHandle\') %]?Action=AgentDashboard' => 'Go to dashboard!'
};
```

ModernizeFormFields

Use new type of select and autocomplete fields in agent interface, where applicable (InputFields).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ModernizeFormFields'} = '1';
```

Framework → Frontend::Agent::Auth::TwoFactor

AuthTwoFactorModule

Defines the two-factor module to authenticate agents.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'AuthTwoFactorModule'} =
  'Kernel::System::Auth::TwoFactor::GoogleAuthenticator';
```

AuthTwoFactorModule::SecretPreferencesKey

Defines the agent preferences key where the shared secret key is stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AuthTwoFactorModule::SecretPreferencesKey'} =
  'UserGoogleAuthenticatorSecretKey';
```

AuthTwoFactorModule::AllowEmptySecret

Defines if agents should be allowed to login if they have no shared secret stored in their preferences and therefore are not using two-factor authentication.

Thamani chaguo-msingi:

```
$Self->{'AuthTwoFactorModule::AllowEmptySecret'} = '1';
```

AuthTwoFactorModule::AllowPreviousToken

Defines if the previously valid token should be accepted for authentication. This is slightly less secure but gives users 30 seconds more time to enter their one-time password.

Thamani chaguo-msingi:

```
$Self->{'AuthTwoFactorModule::AllowPreviousToken'} = '1';
```

Framework → Frontend::Agent::Dashboard

AgentCustomerInformationCenter::Backend###0600-CIC-CustomerCompanyInformation

Parameters for the dashboard backend of the customer company information of the agent interface. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::Backend'}->{'0600-CIC-CustomerCompanyInformation'} = {
  'Attributes' => '',
  'Block' => 'ContentSmall',
  'Default' => '1',
  'Description' => 'Customer Information',
  'Group' => '',
  'Module' => 'Kernel::Output::HTML::Dashboard::CustomerCompanyInformation',
  'Title' => 'Customer Information'
};
```

DashboardBackend###0000-ProductNotify

Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0000-ProductNotify'} = {
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '1440',
  'Default' => '1',
  'Description' => 'News about OTRS releases!',
  'Group' => 'admin',
  'Module' => 'Kernel::Output::HTML::Dashboard::ProductNotify',
  'Title' => 'Product News'
};
```

DashboardBackend###0390-UserOutOfOffice

Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0390-UserOutOfOffice'} = {
  'Block' => 'ContentSmall',
```

```
'CacheTTLLocal' => '5',
'Default' => '1',
'Description' => '',
'Group' => '',
'IdleMinutes' => '60',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::Dashboard::UserOutOfOffice',
'SortBy' => 'UserFullname',
'Title' => 'Out Of Office'
};
```

DashboardBackend###0400-UserOnline

Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0400-UserOnline'} = {
  'Block' => 'ContentSmall',
  'CacheTTLLocal' => '5',
  'Default' => '0',
  'Description' => '',
  'Filter' => 'Agent',
  'Group' => '',
  'IdleMinutes' => '60',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::UserOnline',
  'ShowEmail' => '0',
  'SortBy' => 'UserFullname',
  'Title' => 'OnLine'
};
```

DashboardBackend###0405-News

Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0405-News'} = {
  'Block' => 'ContentSmall',
  'CacheTTL' => '360',
  'Default' => '1',
  'Description' => '',
  'Group' => '',
  'Limit' => '6',
  'Module' => 'Kernel::Output::HTML::Dashboard::News',
  'Title' => 'OTRS News'
};
```

DashboardBackend###0410-RSS

Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0410-RSS'} = {
```

```
'Block' => 'ContentSmall',
'CacheTTL' => '360',
'Default' => '1',
'Description' => '',
'Group' => '',
'Limit' => '6',
'Module' => 'Kernel::Output::HTML::Dashboard::RSS',
'Title' => 'Custom RSS Feed',
'URL' => 'http://www.otrs.com/en/rss.xml',
'URL_de' => 'http://www.otrs.com/de/rss.xml',
'URL_es' => 'http://www.otrs.com/es/rss.xml',
'URL_nl' => 'http://www.otrs.com/nl/rss.xml',
'URL_ru' => 'http://www.otrs.com/ru/rss.xml',
'URL_zh' => 'http://www.otrs.com/cn/rss.xml'
};
```

DashboardBackend###0420-CommandOutput

Defines the parameters for the dashboard backend. "Cmd" is used to specify command with parameters. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0420-CommandOutput'} = {
'Block' => 'ContentSmall',
'CacheTTL' => '60',
'Cmd' => '/bin/echo Configure me please.',
'Default' => '0',
'Description' => '',
'Group' => '',
'Module' => 'Kernel::Output::HTML::Dashboard::CommandOutput',
'Title' => 'Sample command output'
};
```

DashboardBackend###0200-Image

Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0200-Image'} = {
'Block' => 'ContentLarge',
'Default' => '1',
'Description' => 'Some picture description!',
'Group' => '',
'Height' => '140',
'Link' => 'http://otrs.org/',
'LinkTitle' => 'http://otrs.org/',
'Module' => 'Kernel::Output::HTML::Dashboard::Image',
'Title' => 'A picture',
'URL' => 'http://www.otrs.com/wp-uploads//2013/10/OTRS_Logo-300x170.png',
'Width' => '198'
};
```

DashboardBackend###0210-MOTD

Shows the message of the day (MOTD) in the agent dashboard. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0210-MOTD'} = {
  'Block' => 'ContentLarge',
  'Default' => '1',
  'Group' => '',
  'Module' => 'Kernel::Output::HTML::Dashboard::MOTD',
  'Title' => 'Message of the Day'
};
```

DashboardBackend###0300-IFrame

Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0300-IFrame'} = {
  'Align' => 'left',
  'Block' => 'ContentLarge',
  'Default' => '1',
  'Description' => 'Some description!',
  'Frameborder' => '1',
  'Group' => '',
  'Height' => '800',
  'Link' => 'http://otrs.org/',
  'LinkTitle' => 'OTRS.org/',
  'Marginheight' => '5',
  'Marginwidth' => '5',
  'Module' => 'Kernel::Output::HTML::Dashboard::IFrame',
  'Scrolling' => 'auto',
  'Title' => 'A Website',
  'URL' => 'http://www.otrs.org/',
  'Width' => '1024'
};
```

AgentCustomerInformationCenter::Backend###0050-CIC-CustomerUserList

Parameters for the dashboard backend of the customer user list overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::Backend'}->{'0050-CIC-CustomerUserList'} = {
  'Attributes' => '',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'Description' => 'All customer users of a CustomerID',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::CustomerUserList',
  'Permission' => 'ro',
  'Title' => 'Customer Users'
};
```

Framework → Frontend::Agent::LinkObject

Frontend::AgentLinkObject::WildcardSearch

Starts a wildcard search of the active object after the link object mask is started.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::AgentLinkObject::WildcardSearch'} = '0';
```

Framework → Frontend::Agent::ModuleMetaHead

Frontend::HeaderMetaModule###100-Refresh

Defines the module to generate code for periodic page reloads.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::HeaderMetaModule'}->{'100-Refresh'} = {
  'Module' => 'Kernel::Output::HTML::HeaderMeta::Refresh'
};
```

Framework → Frontend::Agent::ModuleNotify

Frontend::NotifyModule###1100-OTRSBusiness

Defines the module to display a notification in different interfaces on different occasions for OTRS Business Solution™.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'1100-OTRSBusiness'} = {
  'Group' => 'admin',
  'Module' => 'Kernel::Output::HTML::Notification::AgentOTRSBusiness'
};
```

Frontend::NotifyModule###2000-UID-Check

Defines the module to display a notification in the agent interface, if the system is used by the admin user (normally you shouldn't work as admin).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'2000-UID-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::UIDCheck'
};
```

Frontend::NotifyModule###2500-AgentSessionLimit

Defines the module to display a notification in the agent interface, if the agent session limit prior warning is reached.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'2500-AgentSessionLimit'} = {
  'Module' => 'Kernel::Output::HTML::Notification::AgentSessionLimit'
};
```

Frontend::NotifyModule###3000-ShowAgentOnline

Defines the module that shows all the currently logged in agents in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'3000-ShowAgentOnline'} = {
```

```
'IdleMinutes' => '60',
'Module' => 'Kernel::Output::HTML::Notification::AgentOnline',
'ShowEmail' => '1'
};
```

Frontend::NotifyModule###4000-ShowCustomerOnline

Defines the module that shows all the currently logged in customers in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'4000-ShowCustomerOnline'} = {
  'IdleMinutes' => '60',
  'Module' => 'Kernel::Output::HTML::Notification::CustomerOnline',
  'ShowEmail' => '1'
};
```

Frontend::NotifyModule###5500-OutofOffice-Check

Defines the module to display a notification in the agent interface, if the agent is logged in while having out-of-office active.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'5500-OutofOffice-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::OutofOfficeCheck'
};
```

Frontend::NotifyModule###6000-SystemMaintenance-Check

Defines the module to display a notification in the agent interface, if the agent is logged in while having system maintenance active.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'6000-SystemMaintenance-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::SystemMaintenanceCheck'
};
```

Frontend::NotifyModule###7000-AgentTimeZone-Check

Defines the module to display a notification in the agent interface, if the agent has not yet selected a time zone.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'7000-AgentTimeZone-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::AgentTimeZoneCheck'
};
```

Frontend::NotifyModule###9000-Generic

Defines the module that shows a generic notification in the agent interface. Either "Text" - if configured - or the contents of "File" will be displayed.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'9000-Generic'} = {
  'File' => '<OTRS_CONFIG_Home>/var/notify.txt',
  'Link' => 'http://www.otrs.com',
};
```

```
'Module' => 'Kernel::Output::HTML::Notification::Generic',
'Priority' => 'Warning',
'Text' => 'The OTRS Website'
};
```

Framework → Frontend::Agent::ModuleRegistration

Frontend::Module###Logout

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'Logout'} = {
  'Description' => 'Logout',
  'NavBarName' => '',
  'Title' => ''
};
```

Frontend::Module###AgentDashboard

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentDashboard'} = {
  'Description' => 'Agent Dashboard',
  'Loader' => {
    'CSS' => [
      'Core.Agent.Dashboard.css',
      'Core.AllocationList.css',
      'thirdparty/fullcalendar-2.8.0/fullcalendar.min.css',
      'thirdparty/nvd3-1.7.1/nv.d3.css'
    ],
    'JavaScript' => [
      'thirdparty/momentjs-2.13.0/moment.min.js',
      'thirdparty/fullcalendar-2.8.0/fullcalendar.min.js',
      'thirdparty/d3-3.5.6/d3.min.js',
      'thirdparty/nvd3-1.7.1/nvd3.min.js',
      'thirdparty/nvd3-1.7.1/models/OTRSLineChart.js',
      'thirdparty/nvd3-1.7.1/models/OTRSMultiBarChart.js',
      'thirdparty/nvd3-1.7.1/models/OTRSStackedAreaChart.js',
      'thirdparty/canvg-1.4/rgbcolor.js',
      'thirdparty/canvg-1.4/StackBlur.js',
      'thirdparty/canvg-1.4/canvg.js',
      'thirdparty/StringView-8/stringview.js',
      'Core.UI.AdvancedChart.js',
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Dashboard.js',
      'Core.Agent.Statistics.ParamsWidget.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'd',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AgentDashboard',
      'LinkOption' => '',
      'Name' => 'Dashboard',
      'NavBar' => 'Dashboard',
      'Prio' => '50',
      'Type' => 'Menu'
    }
  ],
  'NavBarName' => 'Dashboard',
  'Title' => ''
};
```

Frontend::Module###AgentCustomerInformationCenter

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentCustomerInformationCenter'} = {
  'Description' => 'Customer Information Center.',
  'Loader' => {
    'CSS' => [
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.Dashboard.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.CustomerInformationCenter.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'c',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AgentCustomerInformationCenter',
      'LinkOption' => 'onclick="window.setTimeout(function()
{Core.Agent.CustomerInformationCenterSearch.OpenSearchDialog();}, 0); return false;"',
      'Name' => 'Customer Information Center',
      'NavBar' => 'Customers',
      'Prio' => '50',
      'Type' => ''
    },
    {
      'AccessKey' => '',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AgentCustomerInformationCenter',
      'LinkOption' => '',
      'Name' => 'Customers',
      'NavBar' => 'Customers',
      'Prio' => '60',
      'Type' => 'Menu'
    }
  ],
  'NavBarName' => 'Customers',
  'Title' => ''
};
```

Frontend::Module###AgentCustomerInformationCenterSearch

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentCustomerInformationCenterSearch'} = {
  'Description' => 'Customer Information Center Search.',
  'Title' => ''
};
```

Frontend::Module###AgentPreferences

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentPreferences'} = {
  'Description' => 'Agent Preferences.',
  'Loader' => {
    'CSS' => [
      'Core.Agent.Preferences.css'
    ],
    'JavaScript' => [
      'Core.Agent.Preferences.js'
    ]
  },
  'NavBarName' => 'Preferences',
  'Title' => ''
};
```

```
};
```

Frontend::Module###PictureUpload

Frontend module registration for the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'PictureUpload'} = {
  'Description' => 'Picture upload module.',
  'NavBarName' => 'Ticket',
  'Title' => 'Picture Upload'
};
```

Frontend::Module###AgentSpelling

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentSpelling'} = {
  'Description' => 'Spell checker.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js'
    ]
  },
  'NavBarName' => '',
  'Title' => 'Spell Checker'
};
```

Frontend::Module###SpellingInline

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'SpellingInline'} = {
  'Description' => 'Spell checker.',
  'NavBarName' => '',
  'Title' => 'Spell Checker'
};
```

Frontend::Module###AgentBook

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentBook'} = {
  'Description' => 'Address book of CustomerUser sources.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.Book.js'
    ]
  },
  'NavBarName' => '',
  'Title' => 'Address Book'
};
```

Frontend::Module###AgentLinkObject

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentLinkObject'} = {
  'Description' => 'Link Object.',
};
```

```
'Loader' => {
  'JavaScript' => [
    'Core.Agent.LinkObject.SearchForm.js'
  ]
},
'NavBarName' => '',
'Title' => 'Link Object'
};
```

Frontend::Module###AgentInfo

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentInfo'} = {
  'Description' => 'Generic Info module.',
  'NavBarName' => '',
  'Title' => 'Info'
};
```

Frontend::Module###AgentSearch

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentSearch'} = {
  'Description' => 'Global Search Module.',
  'NavBarName' => '',
  'Title' => 'Search'
};
```

Frontend::Module###AgentOTRSBusiness

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentOTRSBusiness'} = {
  'Description' => 'Agent',
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.OTRSBusiness.css'
    ]
  },
  'NavBarName' => '',
  'Title' => 'OTRS Business Solution™'
};
```

CustomerFrontend::Module###SpellingInline

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'SpellingInline'} = {
  'Description' => 'Spell checker.',
  'NavBarName' => '',
  'Title' => 'Spell Checker'
};
```

Frontend::Module###AgentHTMLReference

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentHTMLReference'} = {
  'Description' => 'HTML Reference.',
  'Group' => [
    'users'
  ],
};
```

```
'GroupRo' => [
  'users'
],
'Loader' => {
  'CSS' => [
    'Core.Agent.HTMLReference.css'
  ]
},
'NavBarName' => '',
'Title' => 'HTML Reference'
};
```

Frontend::Module###AgentStatistics

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentStatistics'} = {
  'Description' => '',
  'Group' => [
    'stats'
  ],
  'GroupRo' => [
    'stats'
  ],
  'Loader' => {
    'CSS' => [
      'thirdparty/nvd3-1.7.1/nv.d3.css',
      'Core.Agent.Statistics.css'
    ],
    'JavaScript' => [
      'thirdparty/d3-3.5.6/d3.min.js',
      'thirdparty/nvd3-1.7.1/nvd3.min.js',
      'thirdparty/nvd3-1.7.1/models/OTRSLineChart.js',
      'thirdparty/nvd3-1.7.1/models/OTRSMultiBarChart.js',
      'thirdparty/nvd3-1.7.1/models/OTRSStackedAreaChart.js',
      'thirdparty/canvg-1.4/rgbcolor.js',
      'thirdparty/canvg-1.4/StackBlur.js',
      'thirdparty/canvg-1.4/canvg.js',
      'thirdparty/StringView-8/stringview.js',
      'Core.Agent.Statistics.js',
      'Core.UI.AdvancedChart.js',
      'Core.Agent.Statistics.ParamsWidget.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => '',
      'Block' => 'ItemArea',
      'Description' => '',
      'Link' => 'Action=AgentStatistics;Subaction=Overview',
      'LinkOption' => '',
      'Name' => 'Reports',
      'NavBar' => 'Reports',
      'Prio' => '8500',
      'Type' => 'Menu'
    },
    {
      'AccessKey' => '',
      'Block' => '',
      'Description' => '',
      'GroupRo' => [
        'stats'
      ],
      'Link' => 'Action=AgentStatisticsReports;Subaction=Overview',
      'LinkOption' => 'class="OTRSBusinessRequired"',
      'Name' => 'Reports (OTRS Business Solution™)',
      'NavBar' => 'Reports',
      'Prio' => '100',
      'Type' => ''
    }
  ],
}
```



```
'AccessKey' => '',
'Block' => '',
'Description' => '',
'GroupRo' => [
  'stats'
],
'Link' => 'Action=AgentStatistics;Subaction=0verview',
'LinkOption' => '',
'Name' => 'Statistics',
'NavBar' => 'Reports',
'Prio' => '200',
'Type' => ''
}
],
'NavBarName' => 'Reports',
'Title' => 'Statistics'
};
```

Framework → Frontend::Agent::NavBarModule

Frontend::NavBarModule###6-CustomerCompany

Frontend module registration (disable company link if no company feature is used).

Thamani chaguo-msingi:

```
$Self->{'Frontend::NavBarModule'}->{'6-CustomerCompany'} = {
  'Module' => 'Kernel::Output::HTML::NavBar::CustomerCompany'
};
```

Frontend::NavBarModule###7-AgentTicketService

Frontend module registration (disable AgentTicketService link if Ticket Service feature is not used).

Thamani chaguo-msingi:

```
$Self->{'Frontend::NavBarModule'}->{'7-AgentTicketService'} = {
  'Module' => 'Kernel::Output::HTML::NavBar::AgentTicketService'
};
```

Framework → Frontend::Agent::Preferences

PreferencesTable

Defines the name of the table where the user preferences are stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PreferencesTable'} = 'user_preferences';
```

PreferencesTableKey

Defines the column to store the keys for the preferences table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PreferencesTableKey'} = 'preferences_key';
```

PreferencesTableValue

Defines the name of the column to store the data in the preferences table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PreferencesTableValue'} = 'preferences_value';
```

PreferencesTableUserID

Defines the name of the column to store the user identifier in the preferences table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PreferencesTableUserID'} = 'user_id';
```

PreferencesView

Sets the display order of the different items in the preferences view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PreferencesView'} = [
  'User Profile',
  'Notification Settings',
  'Other Settings'
];
```

PreferencesGroups###Password

Defines the config parameters of this item, to be shown in the preferences view. 'PasswordRegExp' allows to match passwords against a regular expression. Define the minimum number of characters using 'PasswordMinSize'. Define if at least 2 lowercase and 2 uppercase letter characters are needed by setting the appropriate option to '1'. 'PasswordMin2Characters' defines if the password needs to contain at least 2 letter characters (set to 0 or 1). 'PasswordNeedDigit' controls the need of at least 1 digit (set to 0 or 1 to control). 'PasswordMaxLoginFailed' allows to set an agent to invalid-temporarily if max failed logins reached.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'Password'} = {
  'Active' => '1',
  'Area' => 'Agent',
  'Column' => 'User Profile',
  'Label' => 'Change password',
  'Module' => 'Kernel::Output::HTML::Preferences::Password',
  'PasswordMaxLoginFailed' => '0',
  'PasswordMin2Characters' => '0',
  'PasswordMin2Lower2UpperCharacters' => '0',
  'PasswordMinSize' => '0',
  'PasswordNeedDigit' => '0',
  'PasswordRegExp' => '',
  'Prio' => '0500'
};
```

PreferencesGroups###GoogleAuthenticatorSecretKey

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'GoogleAuthenticatorSecretKey'} = {
  'Active' => '0',
  'Block' => 'Input',
  'Column' => 'User Profile',
  'Desc' => 'Enter your shared secret to enable two factor authentication.',
  'Key' => 'Shared Secret',
  'Label' => 'Google Authenticator',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserGoogleAuthenticatorSecretKey',
  'Prio' => '0600'
};
```

PreferencesGroups###SpellDict

Defines the config parameters of this item, to be shown in the preferences view. Take care to maintain the dictionaries installed in the system in the data section.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'SpellDict'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Data' => {
    'deutsch' => 'Deutsch',
    'english' => 'English'
  },
  'DataSelected' => 'english',
  'Key' => 'Default spelling dictionary',
  'Label' => 'Spelling Dictionary',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserSpellDict',
  'Prio' => '2000'
};
```

PreferencesGroups###Comment

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'Comment'} = {
  'Active' => '0',
  'Block' => 'Input',
  'Column' => 'Other Settings',
  'Data' => "[% Env('UserComment') %]",
  'Key' => 'Comment',
  'Label' => 'Comment',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserComment',
  'Prio' => '6000'
};
```

PreferencesGroups###Language

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'Language'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Key' => 'Language',
  'Label' => 'Language',
  'Module' => 'Kernel::Output::HTML::Preferences::Language',
  'PrefKey' => 'UserLanguage',
  'Prio' => '1000'
};
```

PreferencesGroups###Skin

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'Skin'} = {
  'Active' => '1',
  'Column' => 'Other Settings',
  'Key' => 'Skin',
  'Label' => 'Skin',
  'Module' => 'Kernel::Output::HTML::Preferences::Skin',
  'PrefKey' => 'UserSkin',
  'Prio' => '100'
};
```

PreferencesGroups###Theme

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'Theme'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Key' => 'Frontend theme',
  'Label' => 'Theme',
  'Module' => 'Kernel::Output::HTML::Preferences::Theme',
  'PrefKey' => 'UserTheme',
  'Prio' => '3000'
};
```

PreferencesGroups###TimeZone

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'TimeZone'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Key' => 'Time Zone',
  'Label' => 'Time Zone',
  'Module' => 'Kernel::Output::HTML::Preferences::TimeZone',
  'PrefKey' => 'UserTimeZone',
  'Prio' => '3500'
};
```

PreferencesGroups###OutOfOffice

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'OutOfOffice'} = {
  'Active' => '1',
  'Block' => 'OutOfOffice',
  'Column' => 'User Profile',
  'Key' => '',
  'Label' => 'Out Of Office Time',
  'Module' => 'Kernel::Output::HTML::Preferences::OutOfOffice',
  'PrefKey' => 'UserOutOfOffice',
  'Prio' => '4000'
};
```

PreferencesGroups###CSVSeparator

Gives end users the possibility to override the separator character for CSV files, defined in the translation files.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'CSVSeparator'} = {
  'Active' => '1',
  'Column' => 'Other Settings',
  'Data' => {
    '' => ',',
    ';' => ';',
    ':' => ':',
    '\\t' => 'tab',
    '|' => '|'
  },
  'DataSelected' => '0',
  'Desc' => 'Select the separator character used in CSV files (stats and searches). If you don\'t select a separator here, the default separator for your language will be used.',
  'Key' => 'CSV Separator',
  'Label' => 'CSV Separator',
};
```

```
'Module' => 'Kernel::Output::HTML::Preferences::Generic',
'PrefKey' => 'UserCSVSeparator',
'Prio' => '4000'
};
```

Framework → Frontend::Agent::SearchRouter

Frontend::SearchDefault

Search backend default router.

Thamani chaguo-msingi:

```
$Self->{'Frontend::SearchDefault'} = 'Action=AgentTicketSearch;Subaction=AJAX';
```

Framework → Frontend::Agent::Stats

Stats::SearchPageShown

Defines the default maximum number of statistics per page on the overview screen.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::SearchPageShown'} = '50';
```

Stats::DefaultSelectedDynamicObject

Defines the default selection at the drop down menu for dynamic objects (Form: Common Specification).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::DefaultSelectedDynamicObject'} = 'Ticket';
```

Stats::DefaultSelectedPermissions

Defines the default selection at the drop down menu for permissions (Form: Common Specification).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::DefaultSelectedPermissions'} = [
  'stats'
];
```

Stats::DefaultSelectedFormat

Defines the default selection at the drop down menu for stats format (Form: Common Specification). Please insert the format key (see Stats::Format).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::DefaultSelectedFormat'} = [
  'Print',
  'CSV',
  'Excel',
  'D3::BarChart',
  'D3::LineChart',
  'D3::StackedAreaChart'
];
```

Stats::SearchLimit

Defines the search limit for the stats.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::SearchLimit'} = '1000';
```

Stats::Format

Defines all the possible stats output formats.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::Format'} = {  
  'CSV' => 'CSV',  
  'D3::BarChart' => 'Graph: Bar Chart',  
  'D3::LineChart' => 'Graph: Line Chart',  
  'D3::StackedAreaChart' => 'Graph: Stacked Area Chart',  
  'Excel' => 'Excel',  
  'Print' => 'Print'  
};
```

Stats::ExchangeAxis

Allows agents to exchange the axis of a stat if they generate one.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::ExchangeAxis'} = '0';
```

Stats::UseAgentElementInStats

Allows agents to generate individual-related stats.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::UseAgentElementInStats'} = '0';
```

Stats::UseInvalidAgentInStats

Allows invalid agents to generate individual-related stats.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::UseInvalidAgentInStats'} = '1';
```

Stats::CustomerIDAsMultiSelect

Shows all the customer identifiers in a multi-select field (not useful if you have a lot of customer identifiers).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Stats::CustomerIDAsMultiSelect'} = '1';
```

Framework → Frontend::Customer

CustomerHeadline

The headline shown in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerHeadline'} = 'Example Company';
```

CustomerLogo

The logo shown in the header of the customer interface. The URL to the image can be a relative URL to the skin image directory, or a full URL to a remote web server.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerLogo'} = {  
  'StyleHeight' => '50px',  
  'StyleRight' => '25px',  
  'StyleTop' => '2px',  
  'StyleWidth' => '135px',  
  'URL' => 'skins/Customer/default/img/logo.png'  
};
```

CustomerPanelUserID

Defines the user identifier for the customer panel.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelUserID'} = '1';
```

CustomerGroupSupport

Activates support for customer groups.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerGroupSupport'} = '0';
```

CustomerGroupAlwaysGroups

Defines the groups every customer user will be in (if CustomerGroupSupport is enabled and you don't want to manage every user for these groups).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerGroupAlwaysGroups'} = [  
  'users'  
];
```

CustomerPanelLoginURL

Defines an alternate login URL for the customer panel..

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelLoginURL'} = 'http://host.example.com/cgi-bin/login.pl';
```

CustomerPanelLogoutURL

Defines an alternate logout URL for the customer panel.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelLogoutURL'} = 'http://host.example.com/cgi-bin/login.pl';
```

Frontend::CustomerUser::Item###1-GoogleMaps

Defines a customer item, which generates a google maps icon at the end of a customer info block.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'1-GoogleMaps'} = {
  'Attributes' => 'UserStreet;UserCity;UserCountry;',
  'CSS' => 'Core.Agent.CustomerUser.GoogleMaps.css',
  'CSSClass' => 'GoogleMaps',
  'IconName' => 'fa-globe',
  'Module' => 'Kernel::Output::HTML::CustomerUser::Generic',
  'Required' => 'UserStreet;UserCity;',
  'Target' => '_blank',
  'Text' => 'Location',
  'URL' => 'http://maps.google.com/maps?z=7&q='
};
```

Frontend::CustomerUser::Item###2-Google

Defines a customer item, which generates a google icon at the end of a customer info block.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'2-Google'} = {
  'Attributes' => 'UserFirstname;UserLastname;',
  'CSS' => 'Core.Agent.CustomerUser.Google.css',
  'CSSClass' => 'Google',
  'IconName' => 'fa-google',
  'Module' => 'Kernel::Output::HTML::CustomerUser::Generic',
  'Required' => 'UserFirstname;UserLastname;',
  'Target' => '_blank',
  'Text' => 'Google',
  'URL' => 'http://google.com/search?q='
};
```

Frontend::CustomerUser::Item###2-LinkedIn

Defines a customer item, which generates a LinkedIn icon at the end of a customer info block.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'2-LinkedIn'} = {
  'Attributes' => 'UserFirstname;UserLastname;',
  'CSS' => 'Core.Agent.CustomerUser.LinkedIn.css',
  'CSSClass' => 'LinkedIn',
  'IconName' => 'fa-linkedin',
  'Module' => 'Kernel::Output::HTML::CustomerUser::Generic',
  'Required' => 'UserFirstname;UserLastname;',
  'Target' => '_blank',
  'Text' => 'LinkedIn',
  'URL' => 'http://www.linkedin.com/commonSearch?type=people&keywords='
};
```

Frontend::CustomerUser::Item###3-XING

Defines a customer item, which generates a XING icon at the end of a customer info block.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'3-XING'} = {
  'Attributes' => 'UserFirstname;UserLastname;',
```



```
'CSS' => 'Core.Agent.CustomerUser.Xing.css',
'CSSClass' => 'Xing',
'IconName' => 'fa-xing',
'Module' => 'Kernel::Output::HTML::CustomerUser::Generic',
'Required' => 'UserFirstname;UserLastname;',
'Target' => '_blank',
'Text' => 'XING',
'URL' => 'https://www.xing.com/app/search?op=search;keywords='
};
```

CustomerPanelPreApplicationModule###CustomerAccept

This module and its PreRun() function will be executed, if defined, for every request. This module is useful to check some user options or to display news about new applications.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelPreApplicationModule'}->{'CustomerAccept'} =
'Kernel::Modules::CustomerAccept';
```

CustomerPanel::InfoKey

Defines the key to check with CustomerAccept. If this user preferences key is true, then the message is accepted by the system.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanel::InfoKey'} = 'CustomerAccept1';
```

CustomerPanel::InfoFile

Defines the path of the shown info file, that is located under Kernel/Output/HTML/Templates/Standard/CustomerAccept.tt.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanel::InfoFile'} = 'CustomerAccept';
```

CustomerPanelLostPassword

Activates lost password feature for customers.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelLostPassword'} = '1';
```

CustomerPanelCreateAccount

Enables customers to create their own accounts.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelCreateAccount'} = '1';
```

CustomerPanelCreateAccount::MailRestrictions::Whitelist

If active, one of the regular expressions has to match the user's email address to allow registration.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelCreateAccount::MailRestrictions::Whitelist'} = [  
  '\\@your\\.domain\\.example$'  
];
```

CustomerPanelCreateAccount::MailRestrictions::Blacklist

If active, none of the regular expressions may match the user's email address to allow registration.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelCreateAccount::MailRestrictions::Blacklist'} = [  
  '\\@your\\.domain\\.example$'  
];
```

CustomerPanelSubjectLostPasswordToken

Defines the subject for notification mails sent to customers, with token about new requested password.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSubjectLostPasswordToken'} = 'New OTRS password request';
```

CustomerPanelBodyLostPasswordToken

Defines the body text for notification mails sent to customers, with token about new requested password (after using this link the new password will be sent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelBodyLostPasswordToken'} = 'Hi <OTRS_USERFIRSTNAME>,  
  
You or someone impersonating you has requested to change your OTRS  
password.  
  
If you want to do this, click on this link. You will receive another email containing  
the password.  
  
<OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/<OTRS_CONFIG_ScriptAlias>customer.pl?  
Action=CustomerLostPassword;Token=<OTRS_TOKEN>  
  
If you did not request a new password, please ignore this email.  
';
```

CustomerPanelSubjectLostPassword

Defines the subject for notification mails sent to customers, about new password.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSubjectLostPassword'} = 'New OTRS password';
```

CustomerPanelBodyLostPassword

Defines the body text for notification mails sent to customers, about new password (after using this link the new password will be sent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelBodyLostPassword'} = 'Hi <OTRS_USERFIRSTNAME>,

New password: <OTRS_NEWPW>

<OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/<OTRS_CONFIG_ScriptAlias>customer.pl
';
```

CustomerPanelSubjectNewAccount

Defines the subject for notification mails sent to customers, about new account.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSubjectNewAccount'} = 'New OTRS Account!';
```

CustomerPanelBodyNewAccount

Defines the body text for notification mails sent to customers, about new account.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelBodyNewAccount'} = 'Hi <OTRS_USERFIRSTNAME>,

You or someone impersonating you has created a new OTRS account for
you.

Full name: <OTRS_USERFIRSTNAME> <OTRS_USERLASTNAME>
User name: <OTRS_USERLOGIN>
Password : <OTRS_USERPASSWORD>

You can log in via the following URL. We encourage you to change your password
via the Preferences button after logging in.

<OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/<OTRS_CONFIG_ScriptAlias>customer.pl
';
```

Loader::Customer::Skin###000-default

Default skin for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::Skin'}->{'000-default'} = {
  'Description' => 'This is the default orange - black skin for the customer
interface.',
  'HomePage' => 'www.otrs.org',
  'InternalName' => 'default',
  'VisibleName' => 'Default'
};
```

Loader::Customer::SelectedSkin

The customer skin's InternalName which should be used in the customer interface. Please check the available skins in Frontend::Customer::Skins.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::SelectedSkin'} = 'default';
```

Loader::Customer::SelectedSkin::HostBased

It is possible to configure different skins, for example to distinguish between different customers, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid skin on your system. Please see the example entries for the proper form of the regex.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Loader::Customer::SelectedSkin::HostBased'} = {  
  'host1\\.example\\.com' => 'Someskin1',  
  'host2\\.example\\.com' => 'Someskin2'  
};
```

AutoComplete::Customer###Default

Defines the config options for the autocomplete feature.

Thamani chaguo-msingi:

```
$Self->{'AutoComplete::Customer'}->{'Default'} = {  
  'AutoCompleteActive' => '1',  
  'ButtonText' => 'Search',  
  'MaxResultsDisplayed' => '20',  
  'MinQueryLength' => '2',  
  'QueryDelay' => '100'  
};
```

ModernizeCustomerFormFields

Use new type of select and autocomplete fields in customer interface, where applicable (InputFields).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ModernizeCustomerFormFields'} = '1';
```

Framework → Frontend::Customer::Auth

Customer::AuthModule

Defines the module to authenticate customers.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::DB';
```

Customer::AuthModule::DB::CryptType

If "DB" was selected for Customer::AuthModule, the encryption type of passwords must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::CryptType'} = 'sha2';
```

Customer::AuthModule::DB::Table

If "DB" was selected for Customer::AuthModule, the name of the table where your customer data should be stored must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::Table'} = 'customer_user';
```

Customer::AuthModule::DB::CustomerKey

If "DB" was selected for Customer::AuthModule, the name of the column for the CustomerKey in the customer table must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::CustomerKey'} = 'login';
```

Customer::AuthModule::DB::CustomerPassword

If "DB" was selected for Customer::AuthModule, the column name for the CustomerPassword in the customer table must be specified.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::CustomerPassword'} = 'pw';
```

Customer::AuthModule::DB::DSN

If "DB" was selected for Customer::AuthModule, the DSN for the connection to the customer table must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::DSN'} =  
'DBI:mysql:database=customerdb;host=customerdbhost';
```

Customer::AuthModule::DB::User

If "DB" was selected for Customer::AuthModule, a username to connect to the customer table can be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::User'} = 'some_user';
```

Customer::AuthModule::DB::Password

If "DB" was selected for Customer::AuthModule, a password to connect to the customer table can be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::Password'} = 'some_password';
```

Customer::AuthModule::DB::Type

If "DB" was selected for Customer::AuthModule, a database driver (normally autodetection is used) can be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::DB::Type'} = 'mysql';
```

Customer::AuthModule::HTTPBasicAuth::Replace

If "HTTPBasicAuth" was selected for Customer::AuthModule, you can specify to strip leading parts of user names (e. g. for domains like example_domain\user to user).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::HTTPBasicAuth::Replace'} = 'example_domain\\';
```

Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp

If "HTTPBasicAuth" was selected for Customer::AuthModule, you can specify (by using a RegExp) to strip parts of REMOTE_USER (e. g. for to remove trailing domains). Reg-Exp-Note, \$1 will be the new Login.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp'} = '^(.+?)@.+?$';
```

Customer::AuthModule::LDAP::Host

If "LDAP" was selected for Customer::AuthModule, the LDAP host can be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::Host'} = 'ldap.example.com';
```

Customer::AuthModule::LDAP::BaseDN

If "LDAP" was selected for Customer::AuthModule, the BaseDN must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';
```

Customer::AuthModule::LDAP::UID

If "LDAP" was selected for Customer::AuthModule, the user identifier must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::UID'} = 'uid';
```

Customer::AuthModule::LDAP::GroupDN

If "LDAP" was selected for Customer::Authmodule, you can check if the user is allowed to authenticate because he is in a posixGroup, e.g. user needs to be in a group xyz to use OTRS. Specify the group, who may access the system.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::GroupDN'} =  
'cn=otrsallow,ou=posixGroups,dc=example,dc=com';
```

Customer::AuthModule::LDAP::AccessAttr

If "LDAP" was selected for Customer::AuthModule, you can specify access attributes here.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::AccessAttr'} = 'memberUid';
```

Customer::AuthModule::LDAP::UserAttr

If "LDAP" was selected for Customer::AuthModule, user attributes can be specified. For LDAP posixGroups use UID, for non LDAP posixGroups use full user DN.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::UserAttr'} = 'UID';
```

Customer::AuthModule::LDAP::SearchUserDN

If "LDAP" was selected for Customer::AuthModule and your users have only anonymous access to the LDAP tree, but you want to search through the data, you can do this with a user who has access to the LDAP directory. Specify the username for this special user here.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::SearchUserDN'} =  
'cn=binduser,ou=users,dc=example,dc=com';
```

Customer::AuthModule::LDAP::SearchUserPw

If "LDAP" was selected for Customer::AuthModule and your users have only anonymous access to the LDAP tree, but you want to search through the data, you can do this with a user who has access to the LDAP directory. Specify the password for this special user here.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::SearchUserPw'} = 'some_password';
```

Customer::AuthModule::LDAP::AlwaysFilter

If "LDAP" was selected, you can add a filter to each LDAP query, e.g. (mail=*) or (objectclass=user) or (!objectclass=computer).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::AlwaysFilter'} = '(!objectclass=computer)';
```

Customer::AuthModule::LDAP::UserSuffix

If "LDAP" was selected for Customer::AuthModule and if you want to add a suffix to every customer login name, specify it here, e. g. you just want to write the username user but in your LDAP directory exists user@domain.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::UserSuffix'} = '@domain.com';
```

Customer::AuthModule::LDAP::Params

If "LDAP" was selected for Customer::AuthModule and special parameters are needed for the Net::LDAP perl module, you can specify them here. See "perldoc Net::LDAP" for more information about the parameters.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::Params'} = {  
  'async' => '0',  
  'port' => '389',  
  'timeout' => '120',  
  'version' => '3'
```



```
};
```

Customer::AuthModule::LDAP::Die

If "LDAP" was selected for Customer::AuthModule, you can specify if the applications will stop if e. g. a connection to a server can't be established due to network problems.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::LDAP::Die'} = '1';
```

Customer::AuthModule::Radius::Host

If "Radius" was selected for Customer::AuthModule, the radius host must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::Radius::Host'} = 'radiushost';
```

Customer::AuthModule::Radius::Password

If "Radius" was selected for Customer::AuthModule, the password to authenticate to the radius host must be specified.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::Radius::Password'} = 'radiussecret';
```

Customer::AuthModule::Radius::Die

If "Radius" was selected for Customer::AuthModule, you can specify if the applications will stop if e. g. a connection to a server can't be established due to network problems.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthModule::Radius::Die'} = '1';
```

Framework → Frontend::Customer::Auth::TwoFactor

Customer::AuthTwoFactorModule

Defines the two-factor module to authenticate customers.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthTwoFactorModule'} =  
'Kernel::System::CustomerAuth::TwoFactor::GoogleAuthenticator';
```

Customer::AuthTwoFactorModule::SecretPreferencesKey

Defines the customer preferences key where the shared secret key is stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthTwoFactorModule::SecretPreferencesKey'} =  
'UserGoogleAuthenticatorSecretKey';
```

Customer::AuthTwoFactorModule::AllowEmptySecret

Defines if customers should be allowed to login if they have no shared secret stored in their preferences and therefore are not using two-factor authentication.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthTwoFactorModule::AllowEmptySecret'} = '1';
```


Customer::AuthTwoFactorModule::AllowPreviousToken

Defines if the previously valid token should be accepted for authentication. This is slightly less secure but gives users 30 seconds more time to enter their one-time password.

Thamani chaguo-msingi:

```
$Self->{'Customer::AuthTwoFactorModule::AllowPreviousToken'} = '1';
```

Framework → Frontend::Customer::ModuleMetaHead

CustomerFrontend::HeaderMetaModule###1-Refresh

Defines the module to generate code for periodic page reloads.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::HeaderMetaModule'}->{'1-Refresh'} = {
  'Module' => 'Kernel::Output::HTML::HeaderMeta::Refresh'
};
```

Framework → Frontend::Customer::ModuleNotify

CustomerFrontend::NotifyModule###1-OTRSBusiness

Defines the module to display a notification in different interfaces on different occasions for OTRS Business Solution™.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NotifyModule'}->{'1-OTRSBusiness'} = {
  'Module' => 'Kernel::Output::HTML::Notification::CustomerOTRSBusiness'
};
```

CustomerFrontend::NotifyModule###1-ShowAgentOnline

Defines the module that shows the currently logged in agents in the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NotifyModule'}->{'1-ShowAgentOnline'} = {
  'IdleMinutes' => '60',
  'Module' => 'Kernel::Output::HTML::Notification::AgentOnline',
  'ShowEmail' => '1'
};
```

CustomerFrontend::NotifyModule###1-ShowCustomerOnline

Defines the module that shows the currently logged in customers in the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NotifyModule'}->{'1-ShowCustomerOnline'} = {
  'Module' => 'Kernel::Output::HTML::Notification::CustomerOnline',
  'ShowEmail' => '1'
};
```

CustomerFrontend::NotifyModule###6-CustomerSystemMaintenance-Check

Defines the module to display a notification in the customer interface, if the customer is logged in while having system maintenance active.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NotifyModule'}->{'6-CustomerSystemMaintenance-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::CustomerSystemMaintenanceCheck'
};
```

CustomerFrontend::NotifyModule###7-CustomerUserTimeZone-Check

Defines the module to display a notification in the customer interface, if the customer user has not yet selected a time zone.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NotifyModule'}->{'7-CustomerUserTimeZone-Check'} = {
  'Module' => 'Kernel::Output::HTML::Notification::CustomerUserTimeZoneCheck'
};
```

Framework → Frontend::Customer::ModuleRegistration

CustomerFrontend::Module###Logout

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'Logout'} = {
  'Description' => 'Logout of customer panel.',
  'NavBarName' => '',
  'Title' => ''
};
```

CustomerFrontend::Module###CustomerPreferences

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'CustomerPreferences'} = {
  'Description' => 'Customer preferences.',
  'NavBarName' => '',
  'Title' => 'Preferences'
};
```

CustomerFrontend::Module###CustomerAccept

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'CustomerAccept'} = {
  'Description' => 'To accept login information, such as an EULA or license.',
  'NavBarName' => '',
  'Title' => 'Info'
};
```

CustomerFrontend::Module###PictureUpload

Frontend module registration for the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'PictureUpload'} = {
  'Description' => 'Picture upload module.',
  'NavBarName' => 'Ticket',
  'Title' => 'Picture-Upload'
};
```

Framework → Frontend::Customer::Preferences

CustomerPreferences

Defines the parameters for the customer preferences table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferences'} = {
  'Module' => 'Kernel::System::CustomerUser::Preferences::DB',
  'Params' => {
    'Table' => 'customer_preferences',
    'TableKey' => 'preferences_key',
    'TableUserID' => 'user_id',
    'TableValue' => 'preferences_value'
  }
};
```

CustomerPreferencesView

Sets the order of the different items in the customer preferences view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesView'} = [
  'User Profile',
  'Other Settings'
];
```

CustomerPreferencesGroups###Password

Defines all the parameters for this item in the customer preferences. 'PasswordRegExp' allows to match passwords against a regular expression. Define the minimum number of characters using 'PasswordMinSize'. Define if at least 2 lowercase and 2 uppercase letter characters are needed by setting the appropriate option to '1'. 'PasswordMin2Characters' defines if the password needs to contain at least 2 letter characters (set to 0 or 1). 'PasswordNeedDigit' controls the need of at least 1 digit (set to 0 or 1 to control).

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'Password'} = {
  'Active' => '1',
  'Area' => 'Customer',
  'Column' => 'Other Settings',
  'Label' => 'Change password',
  'Module' => 'Kernel::Output::HTML::Preferences::Password',
  'PasswordMin2Characters' => '0',
  'PasswordMin2Lower2UpperCharacters' => '0',
  'PasswordMinSize' => '0',
  'PasswordNeedDigit' => '0',
  'PasswordRegExp' => '',
  'Prio' => '1000'
};
```

CustomerPreferencesGroups###GoogleAuthenticatorSecretKey

Defines the config parameters of this item, to be shown in the preferences view.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'GoogleAuthenticatorSecretKey'} = {
  'Active' => '0',
  'Block' => 'Input',
  'Column' => 'Other Settings',
  'Key' => 'Shared Secret',
  'Label' => 'Google Authenticator',
};
```

```
'Module' => 'Kernel::Output::HTML::Preferences::Generic',
'PrefKey' => 'UserGoogleAuthenticatorSecretKey',
'Prio' => '1100'
};
```

CustomerPreferencesGroups###Language

Defines all the parameters for this item in the customer preferences.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'Language'} = {
'Active' => '1',
'Column' => 'User Profile',
'Key' => 'Language',
'Label' => 'Interface language',
'Module' => 'Kernel::Output::HTML::Preferences::Language',
'PrefKey' => 'UserLanguage',
'Prio' => '2000'
};
```

CustomerPreferencesGroups###TimeZone

Defines all the parameters for this item in the customer preferences.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'TimeZone'} = {
'Active' => '1',
'Column' => 'User Profile',
'Key' => 'Time Zone',
'Label' => 'Time Zone',
'Module' => 'Kernel::Output::HTML::Preferences::TimeZone',
'PrefKey' => 'UserTimeZone',
'Prio' => '2500'
};
```

CustomerPreferencesGroups###Theme

Defines all the parameters for this item in the customer preferences.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'Theme'} = {
'Active' => '0',
'Column' => 'User Profile',
'Key' => 'Select your frontend Theme.',
'Label' => 'Theme',
'Module' => 'Kernel::Output::HTML::Preferences::Theme',
'PrefKey' => 'UserTheme',
'Prio' => '1000'
};
```

CustomerPreferencesGroups###PGP

Defines all the parameters for this item in the customer preferences.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'PGP'} = {
'Active' => '1',
'Column' => 'Other Settings',
'Key' => 'PGP Key Upload',
'Label' => 'PGP Key',
'Module' => 'Kernel::Output::HTML::Preferences::PGP',
'PrefKey' => 'UserPGPKey',
'Prio' => '10000'
};
```

CustomerPreferencesGroups###SMIME

Defines all the parameters for this item in the customer preferences.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'SMIME'} = {
  'Active' => '1',
  'Column' => 'Other Settings',
  'Key' => 'S/MIME Certificate Upload',
  'Label' => 'S/MIME Certificate',
  'Module' => 'Kernel::Output::HTML::Preferences::SMIME',
  'PrefKey' => 'UserSMIMEKey',
  'Prio' => '11000'
};
```

Framework → Frontend::Public

PublicFrontend::CommonParam###Action

Defines the default value for the action parameter for the public frontend. The action parameter is used in the scripts of the system.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PublicFrontend::CommonParam'}->{'Action'} = 'PublicDefault';
```

Framework → Frontend::Public::ModuleRegistration

PublicFrontend::Module###PublicDefault

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PublicFrontend::Module'}->{'PublicDefault'} = {
  'Description' => 'PublicDefault',
  'NavBarName' => '',
  'Title' => 'PublicDefault'
};
```

PublicFrontend::Module###PublicRepository

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PublicFrontend::Module'}->{'PublicRepository'} = {
  'Description' => 'PublicRepository',
  'NavBarName' => '',
  'Title' => 'PublicRepository'
};
```

PublicFrontend::Module###PublicSupportDataCollector

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PublicFrontend::Module'}->{'PublicSupportDataCollector'} = {
  'Description' => 'PublicSupportDataCollector',
  'NavBarName' => '',
  'Title' => 'PublicSupportDataCollector'
};
```

Framework → SystemMaintenance

SystemMaintenance::TimeNotifyUpcomingMaintenance

Sets the minutes a notification is shown for notice about upcoming system maintenance period.

Thamani chaguo-msingi:

```
$Self->{'SystemMaintenance::TimeNotifyUpcomingMaintenance'} = '30';
```

SystemMaintenance::IsActiveDefaultNotification

Sets the default message for the notification is shown on a running system maintenance period.

Thamani chaguo-msingi:

```
$Self->{'SystemMaintenance::IsActiveDefaultNotification'} = 'We are performing scheduled maintenance.';
```

SystemMaintenance::IsActiveDefaultLoginMessage

Sets the default message for the login screen on Agent and Customer interface, it's shown when a running system maintenance period is active.

Thamani chaguo-msingi:

```
$Self->{'SystemMaintenance::IsActiveDefaultLoginMessage'} = 'We are performing scheduled maintenance. We should be back online shortly.';
```

SystemMaintenance::IsActiveDefaultLoginErrorMessage

Sets the default error message for the login screen on Agent and Customer interface, it's shown when a running system maintenance period is active.

Thamani chaguo-msingi:

```
$Self->{'SystemMaintenance::IsActiveDefaultLoginErrorMessage'} = 'We are performing scheduled maintenance. Login is temporarily not available.';
```

5. GenericInterface

GenericInterface → Core::CustomerCompany

CustomerCompany::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'CustomerCompany::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Core::CustomerUser

CustomerUser::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'CustomerUser::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Core::DynamicField

DynamicField::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'DynamicField::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Core::Package

Package::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'Package::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Core::Queue

Queue::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'Queue::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Core::Ticket

Ticket::EventModulePost###9900-GenericInterface

Performs the configured action for each event (as an Invoker) for each configured Webservice.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'9900-GenericInterface'} = {
  'Event' => '',
  'Module' => 'Kernel::GenericInterface::Event::Handler',
  'Transaction' => '1'
};
```

GenericInterface → Frontend::Admin::ModuleRegistration

Frontend::Module###AdminGenericInterfaceDebugger

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminGenericInterfaceDebugger'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceDebugger.js'
    ]
  }
};
```

```

    ],
    'Title' => 'GenericInterface Debugger GUI'
  };

```

Frontend::Module###AdminGenericInterfaceWebservice

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceWebservice'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceWebservice.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Create and manage web services.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Web Services',
    'Prio' => '1000'
  },
  'NavBarName' => 'Admin',
  'Title' => 'GenericInterface Web Service GUI'
};

```

Frontend::Module###AdminGenericInterfaceTransportHTTPSOAP

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceTransportHTTPSOAP'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css',
      'Core.Agent.SortedTree.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceTransportHTTPSOAP.js',
      'Core.Agent.SortedTree.js'
    ]
  },
  'Title' => 'GenericInterface TransportHTTPSOAP GUI'
};

```

Frontend::Module###AdminGenericInterfaceTransportHTTPREST

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceTransportHTTPREST'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ]
  }
};

```



```

    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceTransportHTTPREST.js'
    ]
  },
  'Title' => 'GenericInterface TransportHTTPREST GUI'
};

```

Frontend::Module###AdminGenericInterfaceWebserviceHistory

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceWebserviceHistory'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceWebserviceHistory.js'
    ]
  },
  'Title' => 'GenericInterface Webservice History GUI'
};

```

Frontend::Module###AdminGenericInterfaceOperationDefault

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceOperationDefault'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceOperation.js'
    ]
  },
  'Title' => 'GenericInterface Operation GUI'
};

```

Frontend::Module###AdminGenericInterfaceInvokerDefault

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericInterfaceInvokerDefault'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceInvoker.js'
    ]
  },
  'Title' => 'GenericInterface Invoker GUI'
};

```

Frontend::Module###AdminGenericInterfaceMappingSimple

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminGenericInterfaceMappingSimple'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceMapping.js'
    ]
  },
  'Title' => 'GenericInterface Webservice Mapping GUI'
};
```

Frontend::Module###AdminGenericInterfaceMappingXSLT

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminGenericInterfaceMappingXSLT'} = {
  'Description' => 'Admin',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.GenericInterface.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.GenericInterfaceMappingXSLT.js'
    ]
  },
  'Title' => 'GenericInterface Webservice Mapping GUI'
};
```

GenericInterface

GenericInterface::Invoker::ModuleRegistration

GenericInterface::Invoker::Module###Test::Test

GenericInterface module registration for the invoker layer.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Invoker::Module'}->{'Test::Test'} = {
  'ConfigDialog' => 'AdminGenericInterfaceInvokerDefault',
  'Controller' => 'Test',
  'Name' => 'Test'
};
```

GenericInterface::Invoker::Module###Test::TestSimple

GenericInterface module registration for the invoker layer.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Invoker::Module'}->{'Test::TestSimple'} = {
  'ConfigDialog' => 'AdminGenericInterfaceInvokerDefault',
  'Controller' => 'Test',
```

```
'Name' => 'TestSimple'
};
```

GenericInterface →

GenericInterface::Mapping::ModuleRegistration

GenericInterface::Mapping::Module###Test

GenericInterface module registration for the mapping layer.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Mapping::Module'}->{'Test'} = {
  'ConfigDialog' => ''
};
```

GenericInterface::Mapping::Module###Simple

GenericInterface module registration for the mapping layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Mapping::Module'}->{'Simple'} = {
  'ConfigDialog' => 'AdminGenericInterfaceMappingSimple'
};
```

GenericInterface::Mapping::Module###XSLT

GenericInterface module registration for the mapping layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Mapping::Module'}->{'XSLT'} = {
  'ConfigDialog' => 'AdminGenericInterfaceMappingXSLT'
};
```

GenericInterface →

GenericInterface::Operation::ModuleRegistration

GenericInterface::Operation::Module###Test::Test

GenericInterface module registration for the operation layer.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Test::Test'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Test',
  'Name' => 'Test'
};
```

GenericInterface::Operation::Module###Session::SessionCreate

GenericInterface module registration for the operation layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Session::SessionCreate'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Session',
  'Name' => 'SessionCreate'
};
```

GenericInterface::Operation::Module###Ticket::TicketCreate

GenericInterface module registration for the operation layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Ticket::TicketCreate'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Ticket',
  'Name' => 'TicketCreate'
};
```

GenericInterface::Operation::Module###Ticket::TicketUpdate

GenericInterface module registration for the operation layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Ticket::TicketUpdate'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Ticket',
  'Name' => 'TicketUpdate'
};
```

GenericInterface::Operation::Module###Ticket::TicketGet

GenericInterface module registration for the operation layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Ticket::TicketGet'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Ticket',
  'Name' => 'TicketGet'
};
```

GenericInterface::Operation::Module###Ticket::TicketSearch

GenericInterface module registration for the operation layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Module'}->{'Ticket::TicketSearch'} = {
  'ConfigDialog' => 'AdminGenericInterfaceOperationDefault',
  'Controller' => 'Ticket',
  'Name' => 'TicketGet'
};
```

GenericInterface

GenericInterface::Operation::ResponseLoggingMaxSize →

GenericInterface::Operation::ResponseLoggingMaxSize

Defines the maximum size in KiloByte of GenericInterface responses that get logged to the gi_debugger_entry_content table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::ResponseLoggingMaxSize'} = '200';
```

GenericInterface → GenericInterface::Operation::TicketCreate

GenericInterface::Operation::TicketCreate###ArticleType

Defines the default type of the article for this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketCreate'}->{'ArticleType'} = 'webrequest';
```

GenericInterface::Operation::TicketCreate###HistoryType

Defines the history type for this operation, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketCreate'}->{'HistoryType'} = 'NewTicket';
```

GenericInterface::Operation::TicketCreate###HistoryComment

Defines the history comment for this operation, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketCreate'}->{'HistoryComment'} = '%  
%GenericInterface Create';
```

GenericInterface::Operation::TicketCreate###AutoResponseType

Defines the default auto response type of the article for this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketCreate'}->{'AutoResponseType'} = 'auto  
reply';
```

GenericInterface → GenericInterface::Operation::TicketSearch

GenericInterface::Operation::TicketSearch###SearchLimit

Maximum number of tickets to be displayed in the result of this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketSearch'}->{'SearchLimit'} = '500';
```

GenericInterface::Operation::TicketSearch###SortBy::Default

Defines the default ticket attribute for ticket sorting of the ticket search result of this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketSearch'}->{'SortBy::Default'} = 'Age';
```

GenericInterface::Operation::TicketSearch###Order::Default

Defines the default ticket order in the ticket search result of the this operation. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketSearch'}->{'Order::Default'} = 'Down';
```

GenericInterface → GenericInterface::Operation::TicketUpdate

GenericInterface::Operation::TicketUpdate###ArticleType

Defines the default type of the article for this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketUpdate'}->{'ArticleType'} = 'webrequest';
```

GenericInterface::Operation::TicketUpdate###HistoryType

Defines the history type for this operation, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketUpdate'}->{'HistoryType'} = 'AddNote';
```

GenericInterface::Operation::TicketUpdate###HistoryComment

Defines the history comment for this operation, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketUpdate'}->{'HistoryComment'} = '%GenericInterface Note';
```

GenericInterface::Operation::TicketUpdate###AutoResponseType

Defines the default auto response type of the article for this operation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::TicketUpdate'}->{'AutoResponseType'} = 'auto follow up';
```

GenericInterface

GenericInterface::Transport::ModuleRegistration

GenericInterface::Transport::Module###HTTP::SOAP

GenericInterface module registration for the transport layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Transport::Module'}->{'HTTP::SOAP'} = {
  'ConfigDialog' => 'AdminGenericInterfaceTransportHTTPSAP',
  'Name' => 'SOAP',
  'Protocol' => 'HTTP'
};
```

GenericInterface::Transport::Module###HTTP::REST

GenericInterface module registration for the transport layer.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Transport::Module'}->{'HTTP::REST'} = {
  'ConfigDialog' => 'AdminGenericInterfaceTransportHTTPREST',
  'Name' => 'REST',
  'Protocol' => 'HTTP'
};
```

GenericInterface::Transport::Module###HTTP::Test

GenericInterface module registration for the transport layer.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Transport::Module'}->{'HTTP::Test'} = {
  'ConfigDialog' => 'AdminGenericInterfaceTransportHTTPTest',
  'Name' => 'Test',
  'Protocol' => 'HTTP'
};
```

GenericInterface → GenericInterface::Webservice

GenericInterface::WebserviceConfig::CacheTTL

Cache time in seconds for the web service config backend.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::WebserviceConfig::CacheTTL'} = '86400';
```

GenericInterface::Operation::Common::CachedAuth::AgentCacheTTL

Cache time in seconds for agent authentication in the GenericInterface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Common::CachedAuth::AgentCacheTTL'} = '300';
```

GenericInterface::Operation::Common::CachedAuth::CustomerCacheTTL

Cache time in seconds for customer authentication in the GenericInterface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'GenericInterface::Operation::Common::CachedAuth::CustomerCacheTTL'} = '300';
```

6. ProcessManagement

ProcessManagement → Core

Process::DynamicFieldProcessManagementProcessID

This option defines the dynamic field in which a Process Management process entity id is stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DynamicFieldProcessManagementProcessID'} =
  'ProcessManagementProcessID';
```

Process::DynamicFieldProcessManagementActivityID

This option defines the dynamic field in which a Process Management activity entity id is stored.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DynamicFieldProcessManagementActivityID'} =
  'ProcessManagementActivityID';
```

Process::DefaultQueue

This option defines the process tickets default queue.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DefaultQueue'} = 'Raw';
```

Process::DefaultState

This option defines the process tickets default state.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DefaultState'} = 'new';
```

Process::DefaultLock

This option defines the process tickets default lock.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DefaultLock'} = 'unlock';
```

Process::DefaultPriority

This option defines the process tickets default priority.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::DefaultPriority'} = '3 normal';
```

Process::Entity::Prefix

Default ProcessManagement entity prefixes for entity IDs that are automatically generated.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::Entity::Prefix'} = {  
  'Activity' => 'A',  
  'ActivityDialog' => 'AD',  
  'Process' => 'P',  
  'Transition' => 'T',  
  'TransitionAction' => 'TA'  
};
```

Process::CacheTTL

Cache time in seconds for the DB process backend.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::CacheTTL'} = '3600';
```

Process::NavBarOutput::CacheTTL

Cache time in seconds for the ticket process navigation bar output module.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Process::NavBarOutput::CacheTTL'} = '900';
```


ProcessManagement → Core::Ticket

Ticket::EventModulePost###9800-TicketProcessTransitions

Event module registration. For more performance you can define a trigger event (e.g. Event => TicketCreate).

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'9800-TicketProcessTransitions'} = {
  'Event' => '',
  'Module' => 'Kernel::System::Ticket::Event::TicketProcessTransitions',
  'Transaction' => '1'
};
```

ProcessManagement → Core::Transition

ProcessManagement::Transition::Debug::Enabled

If enabled debugging information for transitions is logged.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ProcessManagement::Transition::Debug::Enabled'} = '0';
```

ProcessManagement::Transition::Debug::LogPriority

Defines the priority in which the information is logged and presented.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'ProcessManagement::Transition::Debug::LogPriority'} = 'debug';
```

ProcessManagement::Transition::Debug::Filter###00-Default

Filter for debugging Transitions. Note: More filters can be added in the format <OTRS_TICKET_Attribute> e.g. <OTRS_TICKET_Priority>.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'ProcessManagement::Transition::Debug::Filter'}->{'00-Default'} = {
  '<OTRS_TICKET_TicketNumber>' => '',
  'TransitionEntityID' => ''
};
```

ProcessManagement → DynamicFields::Driver::Registration

DynamicFields::Driver###ProcessID

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'ProcessID'} = {
  'ConfigDialog' => 'AdminDynamicFieldText',
  'DisabledAdd' => '1',
  'DisplayName' => 'ProcessID',
  'Module' => 'Kernel::System::DynamicField::Driver::ProcessManagement::ProcessID'
};
```

DynamicFields::Driver###ActivityID

DynamicField backend registration.

Thamani chaguo-msingi:

```
$Self->{'DynamicFields::Driver'}->{'ActivityID'} = {
```

```
'ConfigDialog' => 'AdminDynamicFieldText',
'DisabledAdd' => '1',
'DisplayName' => 'ActivityID',
'Module' => 'Kernel::System::DynamicField::Driver::ProcessManagement::ActivityID'
};
```

ProcessManagement → Frontend::Admin::ModuleRegistration

Frontend::Module###AdminProcessManagement

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagement'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'thirdparty/jsplumb-1.6.4/jsplumb.js',
      'thirdparty/farahey-0.5/farahey.js',
      'thirdparty/jsplumb-labelspacer/label-spacer.js',
      'Core.Agent.Admin.ProcessManagement.js',
      'Core.Agent.Admin.ProcessManagement.Canvas.js',
      'Core.UI.AllocationList.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Configure Processes.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Process Management',
    'Prio' => '750'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Process Management'
};
```

Frontend::Module###AdminProcessManagementActivity

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagementActivity'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ProcessManagement.js',
      'Core.UI.AllocationList.js'
    ]
  },
  'Title' => 'Process Management Activity GUI'
};
```

Frontend::Module###AdminProcessManagementActivityDialog

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagementActivityDialog'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ProcessManagement.js',
      'Core.UI.AllocationList.js'
    ]
  },
  'Title' => 'Process Management Activity Dialog GUI'
};
```

Frontend::Module###AdminProcessManagementTransition

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagementTransition'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ProcessManagement.js'
    ]
  },
  'Title' => 'Process Management Transition GUI'
};
```

Frontend::Module###AdminProcessManagementTransitionAction

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagementTransitionAction'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ProcessManagement.js'
    ]
  },
  'Title' => 'Process Management Transition Action GUI'
};
```

Frontend::Module###AdminProcessManagementPath

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminProcessManagementPath'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
```

```

    'CSS' => [
      'Core.Agent.Admin.ProcessManagement.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ProcessManagement.js',
      'Core.UI.AllocationList.js'
    ]
  },
  'Title' => 'Process Management Path GUI'
};

```

ProcessManagement → Frontend::Agent::Dashboard

DashboardBackend###0140-RunningTicketProcess

Parameters for the dashboard backend of the running process tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```

$self->{'DashboardBackend'}->{'0140-RunningTicketProcess'} = {
  'Attributes' => 'StateType=new;StateType=open;StateType=pending
reminder;StateType=pending auto',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '0',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'DynamicField_ProcessManagementActivityID' => '2',
    'DynamicField_ProcessManagementProcessID' => '2',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All tickets with a reminder set where the reminder date has been
reached',
  'Group' => '',
  'IsProcessWidget' => '1',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'rw',
  'Time' => 'UntilTime',
  'Title' => 'Running Process Tickets'
};

```

ProcessManagement → Frontend::Agent::ModuleRegistration

Frontend::Module###AgentTicketProcess

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketProcess'} = {
  'Description' => 'Create new process ticket.',
  'Loader' => {
    'CSS' => [
      'Core.Agent.TicketProcess.css'
    ],
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketProcess.js',
      'Core.TicketProcess.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'p',
      'Block' => '',
      'Description' => 'Create New process ticket.',
      'Link' => 'Action=AgentTicketProcess',
      'LinkOption' => '',
      'Name' => 'New process ticket',
      'NavBar' => 'Ticket',
      'Prio' => '220',
      'Type' => ''
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'New process ticket'
};
```

ProcessManagement → Frontend::Agent::NavBarModule

Frontend::NavBarModule###1-TicketProcesses

Frontend module registration (disable ticket processes screen if no process available).

Thamani chaguo-msingi:

```
$Self->{'Frontend::NavBarModule'}->{'1-TicketProcesses'} = {
  'Module' => 'Kernel::Output::HTML::NavBar::AgentTicketProcess'
};
```

ProcessManagement → Frontend::Agent::Ticket::MenuModule

Ticket::Frontend::MenuModule###480-Process

Shows a link in the menu to enroll a ticket into a process in the ticket zoom view of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'480-Process'} = {
  'Action' => 'AgentTicketProcess',
  'Cluster' => '',
  'Description' => 'Enroll process for this ticket',
  'Link' => 'Action=AgentTicketProcess;IsProcessEnroll=1;TicketID=[% Data.TicketID |
html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Process',
  'Name' => 'Process',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

ProcessManagement → Frontend::Agent::Ticket::ViewProcess

Ticket::Frontend::AgentTicketProcess###StateType

Determines the next possible ticket states, for process tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketProcess'}->{'StateType'} = [
  'new',
  'open',
  'pending auto',
  'pending reminder',
  'closed'
];
```

Ticket::Frontend::CustomerTicketProcess###StateType

Determines the next possible ticket states, for process tickets in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketProcess'}->{'StateType'} = [
  'new',
  'open'
];
```

Ticket::Frontend::AgentTicketProcess::CustomerIDReadOnly

Controls if CustomerID is editable in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketProcess::CustomerIDReadOnly'} = '1';
```

ProcessManagement → Frontend::Agent::Ticket::ViewZoom

Ticket::Frontend::AgentTicketZoom###ProcessDisplay

Display settings to override defaults for Process Tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessDisplay'} = {
  'NavBarName' => 'Processes',
  'WidgetTitle' => 'Process Information'
};
```

Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicFieldGroups

Dynamic fields groups for process widget. The key is the name of the group, the value contains the fields to be shown. Example: 'Key => My Group', 'Content: Name_X, NameY'.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessWidgetDynamicFieldGroups'} = {};
```

Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicField

Dynamic fields shown in the process widget in ticket zoom screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessWidgetDynamicField'} = {};
```

ProcessManagement → Frontend::Customer::ModuleRegistration

CustomerFrontend::Module###CustomerTicketProcess

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'CustomerTicketProcess'} = {
  'Description' => 'Process Ticket.',
  'Loader' => {
    'CSS' => [
      'Core.Customer.TicketProcess.css'
    ],
    'JavaScript' => [
      'Core.TicketProcess.js',
      'Core.Customer.TicketProcess.js',
      'Core.TicketProcess.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'o',
      'Block' => '',
      'Description' => 'Create new process ticket.',
      'Link' => 'Action=CustomerTicketProcess',
      'LinkOption' => '',
      'Name' => 'New process ticket',
      'NavBar' => 'Ticket',
      'Prio' => '220',
      'Type' => 'Submenu'
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Process ticket'
};
```

ProcessManagement → Frontend::Customer::NavBarModule

CustomerFrontend::NavBarModule###10-CustomerTicketProcesses

Frontend module registration (disable ticket processes screen if no process available) for Customer.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::NavBarModule'}->{'10-CustomerTicketProcesses'} = {
  'Module' => 'Kernel::Output::HTML::NavBar::CustomerTicketProcess'
};
```

7. Ticket

Ticket → Core::CustomerCompany

CustomerCompany::EventModulePost###2300-UpdateTickets

Event module that updates tickets after an update of the Customer.

Thamani chaguo-msingi:

```
$Self->{'CustomerCompany::EventModulePost'}->{'2300-UpdateTickets'} = {
  'Event' => 'CustomerCompanyUpdate',
  'Module' => 'Kernel::System::CustomerCompany::Event::TicketUpdate',
  'Transaction' => '0'
};
```

CustomerUser::EventModulePost###2300-UpdateTickets

Event module that updates tickets after an update of the Customer User.

Thamani chaguo-msingi:

```
$Self->{'CustomerUser::EventModulePost'}->{'2300-UpdateTickets'} = {
  'Event' => 'CustomerUserUpdate',
  'Module' => 'Kernel::System::CustomerUser::Event::TicketUpdate',
  'Transaction' => '0'
};
```

Ticket → Core::FulltextSearch

Ticket::SearchIndexModule

Helps to extend your articles full-text search (From, To, Cc, Subject and Body search). Runtime will do full-text searches on live data (it works fine for up to 50.000 tickets). StaticDB will strip all articles and will build an index after article creation, increasing fulltext searches about 50%. To create an initial index use "bin/otrs.Console.pl Maint::Ticket::FulltextIndexRebuild".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndexModule'} =
  'Kernel::System::Ticket::ArticleSearchIndex::RuntimeDB';
```

Ticket::SearchIndex::WarnOnStopWordUsage

Display a warning and prevent search when using stop words within fulltext search.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::WarnOnStopWordUsage'} = '0';
```

Ticket::SearchIndex::Attribute

Basic fulltext index settings. Execute "bin/otrs.Console.pl Maint::Ticket::FulltextIndexRebuild" in order to generate a new index.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::Attribute'} = {
  'WordCountMax' => '1000',
  'WordLengthMax' => '30',
  'WordLengthMin' => '3'
};
```

Ticket::SearchIndex::Filters

Fulltext index regex filters to remove parts of the text.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::Filters'} = [
  '[,\\&\\<\\>\\?\"\\!\\*\\|\\;\\[\\]\\(\\)\\+\\$\\^=]',
  '^\\[\\.:][\\'\\.:]$ ',
  '^\\[\\^\\w]+$ '
];
```

Ticket::SearchIndex::StopWords###en

English stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'en'} = [  
  'a',  
  'about',  
  'above',  
  'after',  
  'again',  
  'against',  
  'all',  
  'am',  
  'an',  
  'and',  
  'any',  
  'are',  
  'aren\'t',  
  'as',  
  'at',  
  'be',  
  'because',  
  'been',  
  'before',  
  'being',  
  'below',  
  'between',  
  'both',  
  'but',  
  'by',  
  'can\'t',  
  'cannot',  
  'could',  
  'couldn\'t',  
  'did',  
  'didn\'t',  
  'do',  
  'does',  
  'doesn\'t',  
  'doing',  
  'don\'t',  
  'down',  
  'during',  
  'each',  
  'few',  
  'for',  
  'from',  
  'further',  
  'had',  
  'hadn\'t',  
  'has',  
  'hasn\'t',  
  'have',  
  'haven\'t',  
  'having',  
  'he',  
  'he\'d',  
  'he\'ll',  
  'he\'s',  
  'her',  
  'here',  
  'here\'s',  
  'hers',  
  'herself',  
  'him',  
  'himself',  
  'his',  
  'how',  
  'how\'s',  
  'i',  
  'i\'d',  
  'i\'ll',  
  'i\'m',  
  'i\'ve',
```

'if',
'in',
'into',
'is',
'isn\'t',
'it',
'it\'s',
'its',
'itself',
'let\'s',
'me',
'more',
'most',
'mustn\'t',
'my',
'myself',
'no',
'nor',
'not',
'of',
'off',
'on',
'once',
'only',
'or',
'other',
'ought',
'our',
'ours',
'ourselves',
'out',
'over',
'own',
'same',
'shan\'t',
'she',
'she\'d',
'she\'ll',
'she\'s',
'should',
'shouldn\'t',
'so',
'some',
'such',
'than',
'that',
'that\'s',
'the',
'their',
'theirs',
'them',
'themselves',
'then',
'there',
'there\'s',
'these',
'they',
'they\'d',
'they\'ll',
'they\'re',
'they\'ve',
'this',
'those',
'through',
'to',
'too',
'under',
'until',
'up',
'very',
'was',
'wasn\'t',

```
'we',
'we\'d',
'we\'ll',
'we\'re',
'we\'ve',
'were',
'weren\'t',
'what',
'what\'s',
'when',
'when\'s',
'where',
'where\'s',
'which',
'while',
'who',
'who\'s',
'whom',
'why',
'why\'s',
'with',
'won\'t',
'would',
'wouldn\'t',
'you',
'you\'d',
'you\'ll',
'you\'re',
'you\'ve',
'your',
'yours',
'yourself',
'yourselves'
];
```

Ticket::SearchIndex::StopWords###de

German stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'de'} = [
'aber',
'als',
'am',
'an',
'auch',
'auf',
'aus',
'bei',
'bin',
'bis',
'bist',
'da',
'dadurch',
'daher',
'darum',
'das',
'daß',
'dass',
'dein',
'deine',
'dem',
'den',
'der',
'des',
'dessen',
'deshalb',
'die',
'dies',
'dieser',
'dieses',
```

'doch',
'dort',
'du',
'durch',
'ein',
'eine',
'einem',
'einen',
'einer',
'eines',
'er',
'es',
'euer',
'eure',
'für',
'hatte',
'hatten',
'hattest',
'hattet',
'hier',
'hinter',
'ich',
'ihr',
'ihre',
'im',
'in',
'ist',
'ja',
'jede',
'jedem',
'jeden',
'jeder',
'jedes',
'jener',
'jenes',
'jetzt',
'kann',
'kannst',
'können',
'könnt',
'machen',
'mein',
'meine',
'mit',
'muß',
'mußt',
'musst',
'müssen',
'müßt',
'nach',
'nachdem',
'nein',
'nicht',
'nun',
'oder',
'seid',
'sein',
'seine',
'sich',
'sie',
'sind',
'soll',
'sollen',
'sollst',
'sollt',
'sonst',
'soweit',
'sowie',
'und',
'unser',
'unsere',
'unter',

```
'vom',
'von',
'vor',
'wann',
'warum',
'was',
'weiter',
'weitere',
'wenn',
'wer',
'werde',
'werden',
'werdet',
'weshalb',
'wie',
'wieder',
'wieso',
'wir',
'wird',
'wirst',
'wo',
'woher',
'wohin',
'zu',
'zum',
'zur',
'über'
];
```

Ticket::SearchIndex::StopWords###nl

Dutch stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'nl'} = [
'de',
'zijn',
'een',
'en',
'in',
'je',
'het',
'van',
'op',
'ze',
'hebben',
'het',
'hij',
'niet',
'met',
'er',
'dat',
'die',
'te',
'wat',
'voor',
'naar',
'gaan',
'kunnen',
'zeggen',
'dat',
'maar',
'aan',
'veel',
'zijn',
'worden',
'uit',
'ook',
'komen',
'als',
'om',
```

'moeten',
'we',
'doen',
'bij',
'goed',
'haar',
'dan',
'nog',
'of',
'maken',
'zo',
'wel',
'mijn',
'zien',
'over',
'willen',
'staan',
'door',
'kijken',
'zullen',
'heel',
'nu',
'weten',
'zitten',
'hem',
'schrijven',
'vinden',
'woord',
'hoe',
'geen',
'dit',
'mens',
'al',
'jij',
'ander',
'groot',
'waar',
'maar',
'weer',
'kind',
'me',
'vragen',
'een',
'denken',
'twee',
'horen',
'iets',
'deze',
'krijgen',
'ons',
'zich',
'lezen',
'hun',
'welk',
'zin',
'laten',
'mogen',
'hier',
'jullie',
'toch',
'geven',
'jaar',
'tegen',
'al',
'eens',
'echt',
'houden',
'alleen',
'lopen',
'mee',
'ja',
'roepen',

```
'tijd',
'dag',
'elkaar',
'even',
'lang',
'land',
'liggen',
'waarom',
'zetten',
'vader',
'laat',
'beginnen',
'blijven',
'nee',
'moeder',
'huis',
'nou',
'na',
'af',
'keer',
'dus',
'tot',
'vertellen',
'wie',
'net',
'jou',
'les',
'want',
'man',
'nieuw',
'elk',
'tekst',
'omdat',
'gebruiken',
'u'
];
```

Ticket::SearchIndex::StopWords###es

Spanish stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'es'} = [
'un',
'una',
'unas',
'unos',
'uno',
'sobre',
'todo',
'también',
'tras',
'otro',
'algún',
'alguno',
'alguna',
'algunos',
'algunas',
'ser',
'es',
'soy',
'eres',
'somos',
'sois',
'estoy',
'esta',
'estamos',
'estais',
'estan',
'como',
'en',
```

'para',
'atras',
'porque',
'por qué',
'estado',
'estaba',
'ante',
'antes',
'siendo',
'ambos',
'pero',
'por',
'poder',
'puede',
'puedo',
'podemos',
'podeis',
'pueden',
'fui',
'fue',
'fuimos',
'fueron',
'hacer',
'hago',
'hace',
'hacemos',
'haceis',
'hacen',
'cada',
'fin',
'incluso',
'primero',
'desde',
'conseguir',
'consigo',
'consigue',
'consigues',
'conseguimos',
'consiguen',
'ir',
'voy',
'va',
'vamos',
'vais',
'van',
'vaya',
'gueno',
'ha',
'tener',
'tengo',
'tiene',
'tenemos',
'teneis',
'tienen',
'el',
'la',
'lo',
'las',
'los',
'su',
'aquí',
'mío',
'tuyo',
'ellos',
'ellas',
'nos',
'nosotros',
'vosotros',
'vosotras',
'si',
'dentro',
'solo',

'solamente',
'saber',
'sabes',
'sabe',
'sabemos',
'sabeis',
'saben',
'ultimo',
'largo',
'bastante',
'haces',
'muchos',
'aquellos',
'aquellas',
'sus',
'entonces',
'tiempo',
'verdad',
'verdadero',
'verdadera',
'cierto',
'ciertos',
'cierta',
'ciertas',
'intentar',
'intento',
'intenta',
'intentas',
'intentamos',
'intentais',
'intentan',
'dos',
'bajo',
'arriba',
'encima',
'usar',
'uso',
'usas',
'usa',
'usamos',
'usais',
'usan',
'emplear',
'empleo',
'empleas',
'emplean',
'empleamos',
'empleais',
'valor',
'muy',
'era',
'eras',
'eramos',
'eran',
'modo',
'bien',
'cual',
'cuando',
'donde',
'mientras',
'quien',
'con',
'entre',
'sin',
'trabajo',
'trabajar',
'trabajas',
'trabaja',
'trabajamos',
'trabajais',
'trabajan',
'podria',

```
'podrias',  
'podriamos',  
'podrian',  
'podriais',  
'yo',  
'aquel'  
];
```

Ticket::SearchIndex::StopWords###fr

French stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'fr'} = [  
'alors',  
'au',  
'aucuns',  
'aussi',  
'autre',  
'avant',  
'avec',  
'avoir',  
'bon',  
'car',  
'ce',  
'cela',  
'ces',  
'ceux',  
'chaque',  
'ci',  
'comme',  
'comment',  
'dans',  
'des',  
'du',  
'dedans',  
'dehors',  
'depuis',  
'deux',  
'devrait',  
'doit',  
'donc',  
'dos',  
'droite',  
'début',  
'elle',  
'elles',  
'en',  
'encore',  
'essai',  
'est',  
'et',  
'eu',  
'fait',  
'faites',  
'fois',  
'font',  
'force',  
'haut',  
'hors',  
'ici',  
'il',  
'ils',  
'je',  
'juste',  
'la',  
'le',  
'les',  
'leur',  
'là',  
'ma',
```

```
'maintenant',  
'mais',  
'mes',  
'mine',  
'moins',  
'mon',  
'mot',  
'même',  
'ni',  
'nommés',  
'notre',  
'nous',  
'nouveaux',  
'ou',  
'où',  
'par',  
'parce',  
'parole',  
'pas',  
'personnes',  
'peut',  
'peu',  
'pièce',  
'plupart',  
'pour',  
'pourquoi',  
'quand',  
'que',  
'quel',  
'quelle',  
'quelles',  
'quels',  
'qui',  
'sa',  
'sans',  
'ses',  
'seulement',  
'si',  
'sien',  
'son',  
'sont',  
'sous',  
'soyez',  
'sujet',  
'sur',  
'ta',  
'tandis',  
'tellement',  
'tels',  
'tes',  
'ton',  
'tous',  
'tout',  
'trop',  
'très',  
'tu',  
'valeur',  
'voie',  
'voient',  
'vont',  
'votre',  
'vous',  
'vu',  
'ça',  
'étaient',  
'état',  
'étions',  
'été',  
'être'  
];
```

Ticket::SearchIndex::StopWords###it

Italian stop words for fulltext index. These words will be removed from the search index.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'it'} = [  
'a',  
'adesso',  
'ai',  
'al',  
'alla',  
'allo',  
'allora',  
'altre',  
'altri',  
'altro',  
'anche',  
'ancora',  
'avere',  
'aveva',  
'avevano',  
'ben',  
'buono',  
'che',  
'chi',  
'cinque',  
'comprare',  
'con',  
'consecutivi',  
'consecutivo',  
'cosa',  
'cui',  
'da',  
'del',  
'della',  
'dello',  
'dentro',  
'deve',  
'devo',  
'di',  
'doppio',  
'due',  
'e',  
'ecco',  
'fare',  
'fine',  
'fino',  
'fra',  
'gente',  
'giu',  
'ha',  
'hai',  
'hanno',  
'ho',  
'il',  
'indietro',  
'invece',  
'io',  
'la',  
'lavoro',  
'le',  
'lei',  
'lo',  
'loro',  
'lui',  
'lungo',  
'ma',  
'me',  
'meglio',  
'molta',  
'molti',
```

```
'molto',  
'nei',  
'nella',  
'no',  
'noi',  
'nome',  
'nostro',  
'nove',  
'nuovi',  
'nuovo',  
'o',  
'oltre',  
'ora',  
'otto',  
'peggio',  
'pero',  
'persone',  
'piu',  
'poco',  
'primo',  
'promesso',  
'qua',  
'quarto',  
'quasi',  
'quattro',  
'quello',  
'questo',  
'qui',  
'quindi',  
'quinto',  
'rispetto',  
'sara',  
'secondo',  
'sei',  
'sembra',  
'sembrava',  
'senza',  
'sette',  
'sia',  
'siamo',  
'siete',  
'solo',  
'sono',  
'sopra',  
'soprattutto',  
'sotto',  
'stati',  
'stato',  
'stesso',  
'su',  
'subito',  
'sul',  
'sulla',  
'tanto',  
'te',  
'tempo',  
'terzo',  
'tra',  
'tre',  
'triplo',  
'ultimo',  
'un',  
'una',  
'uno',  
'va',  
'vai',  
'voi',  
'volte',  
'vostro'  
];
```

Ticket::SearchIndex::StopWords###Custom

Customizable stop words for fulltext index. These words will be removed from the search index.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SearchIndex::StopWords'}->{'Custom'} = [
  'MyStopWord'
];
```

Ticket::EventModulePost###2000-ArticleSearchIndex

Builds an article index right after the article's creation.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'2000-ArticleSearchIndex'} = {
  'Event' => '(ArticleCreate|ArticleUpdate)',
  'Module' => 'Kernel::System::Ticket::Event::ArticleSearchIndex'
};
```

Ticket → Core::LinkObject

LinkObject::PossibleLink###0200

Links 2 tickets with a "Normal" type link.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::PossibleLink'}->{'0200'} = {
  'Object1' => 'Ticket',
  'Object2' => 'Ticket',
  'Type' => 'Normal'
};
```

LinkObject::PossibleLink###0201

Links 2 tickets with a "ParentChild" type link.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::PossibleLink'}->{'0201'} = {
  'Object1' => 'Ticket',
  'Object2' => 'Ticket',
  'Type' => 'ParentChild'
};
```

LinkObject::IgnoreLinkedTicketStateTypes

Defines, which tickets of which ticket state types should not be listed in linked ticket lists.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::IgnoreLinkedTicketStateTypes'} = [
  'merged',
  'removed'
];
```

LinkObject::StrikeThroughLinkedTicketStateTypes

For these state types the ticket numbers are striked through in the link table.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::StrikeThroughLinkedTicketStateTypes'} = [
  'merged'
];
```

Ticket → Core::PostMaster

PostmasterMaxEmails

Maximal auto email responses to own email-address a day (Loop-Protection).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterMaxEmails'} = '40';
```

PostmasterMaxEmailsPerAddress

Maximal auto email responses to own email-address a day, configurable by email address (Loop-Protection).

Thamani chaguo-msingi:

```
$Self->{'PostmasterMaxEmailsPerAddress'} = {};
```

PostMasterMaxEmailSize

Maximal size in KBytes for mails that can be fetched via POP3/POP3S/IMAP/IMAPS (KBytes).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostMasterMaxEmailSize'} = '16384';
```

PostMasterReconnectMessage

The maximum number of mails fetched at once before reconnecting to the server.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostMasterReconnectMessage'} = '20';
```

LoopProtectionModule

Default loop protection module.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LoopProtectionModule'} = 'Kernel::System::PostMaster::LoopProtection::DB';
```

LoopProtectionLog

Path for the log file (it only applies if "FS" was selected for LoopProtectionModule and it is mandatory).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'LoopProtectionLog'} = '<OTRS_CONFIG_Home>/var/log/LoopProtection';
```

PostmasterAutoHTML2Text

Converts HTML mails into text messages.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterAutoHTML2Text'} = '1';
```

PostmasterUserID

Specifies user id of the postmaster data base.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterUserID'} = '1';
```

PostmasterDefaultQueue

Defines the postmaster default queue.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterDefaultQueue'} = 'Raw';
```

PostmasterDefaultPriority

Defines the default priority of new tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterDefaultPriority'} = '3 normal';
```

PostmasterDefaultState

Defines the default state of new tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterDefaultState'} = 'new';
```

PostmasterFollowUpState

Defines the state of a ticket if it gets a follow-up.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterFollowUpState'} = 'open';
```

PostmasterFollowUpStateClosed

Defines the state of a ticket if it gets a follow-up and the ticket was already closed.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostmasterFollowUpStateClosed'} = 'open';
```

PostmasterFollowUpOnUnlockAgentNotifyOnlyToOwner

Sends agent follow-up notification only to the owner, if a ticket is unlocked (the default is to send the notification to all agents).

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'PostmasterFollowUpOnUnlockAgentNotifyOnlyToOwner'} = '0';
```

PostmasterHeaderFieldCount

Defines the number of header fields in frontend modules for add and update postmaster filters. It can be up to 99 fields.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterHeaderFieldCount'} = '12';
```

PostmasterX-Header

Defines all the X-headers that should be scanned.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostmasterX-Header'} = [
  'From',
  'To',
  'Cc',
  'Reply-To',
  'ReplyTo',
  'Subject',
  'Message-ID',
  'Message-Id',
  'Resent-To',
  'Resent-From',
  'Precedence',
  'Mailing-List',
  'List-Id',
  'List-Archive',
  'Errors-To',
  'References',
  'In-Reply-To',
  'Auto-Submitted',
  'X-Loop',
  'X-Spam-Flag',
  'X-Spam-Level',
  'X-Spam-Score',
  'X-Spam-Status',
  'X-No-Loop',
  'X-Priority',
  'Importance',
  'X-Mailer',
  'User-Agent',
  'Organization',
  'X-Original-To',
  'Delivered-To',
  'Envelope-To',
  'X-Envelope-To',
  'Return-Path',
  'X-OTRS-Owner',
  'X-OTRS-OwnerID',
  'X-OTRS-Responsible',
  'X-OTRS-ResponsibleID',
  'X-OTRS-Loop',
  'X-OTRS-Priority',
  'X-OTRS-Queue',
  'X-OTRS-Lock',
  'X-OTRS-Ignore',
  'X-OTRS-State',
  'X-OTRS-State-PendingTime',
  'X-OTRS-Type',
  'X-OTRS-Service',
  'X-OTRS-SLA',
  'X-OTRS-Title',
  'X-OTRS-CustomerNo',
```

```
'X-OTRS-CustomerUser',
'X-OTRS-SenderType',
'X-OTRS-ArticleType',
'X-OTRS-FollowUp-Priority',
'X-OTRS-FollowUp-Queue',
'X-OTRS-FollowUp-Lock',
'X-OTRS-FollowUp-State',
'X-OTRS-FollowUp-State-PendingTime',
'X-OTRS-FollowUp-Type',
'X-OTRS-FollowUp-Service',
'X-OTRS-FollowUp-SLA',
'X-OTRS-FollowUp-SenderType',
'X-OTRS-FollowUp-ArticleType',
'X-OTRS-FollowUp-Title',
'X-OTRS-BodyDecrypted'
];
```

PostMaster::PreFilterModule###1-Match

Module to filter and manipulate incoming messages. Block/ignore all spam email with From: noreply@ address.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'1-Match'} = {
  'Match' => {
    'From' => 'noreply@'
  },
  'Module' => 'Kernel::System::PostMaster::Filter::Match',
  'Set' => {
    'X-OTRS-Ignore' => 'yes'
  }
};
```

PostMaster::PreFilterModule###2-Match

Module to filter and manipulate incoming messages. Get a 4 digit number to ticket free text, use regex in Match e. g. From => '(.+?)@.+?', and use () as [***] in Set =>.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'2-Match'} = {
  'Match' => {
    'Subject' => 'SomeNumber:(\\d\\d\\d\\d)'
  },
  'Module' => 'Kernel::System::PostMaster::Filter::Match',
  'Set' => {
    'X-OTRS-DynamicField-TicketFreeKey1' => 'SomeNumber',
    'X-OTRS-DynamicField-TicketFreeText1' => '[***]'
  }
};
```

PostMaster::PreFilterModule###3-NewTicketReject

Blocks all the incoming emails that do not have a valid ticket number in subject with From: @example.com address.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'3-NewTicketReject'} = {
  'Match' => {
    'From' => '@example.com'
  },
  'Module' => 'Kernel::System::PostMaster::Filter::NewTicketReject',
  'Set' => {
    'X-OTRS-Ignore' => 'yes'
  }
};
```

```
}  
};
```

PostMaster::PreFilterModule::NewTicketReject::Sender

Defines the sender for rejected emails.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule::NewTicketReject::Sender'} =  
'noreply@example.com';
```

PostMaster::PreFilterModule::NewTicketReject::Subject

Defines the subject for rejected emails.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule::NewTicketReject::Subject'} = 'Email Rejected';
```

PostMaster::PreFilterModule::NewTicketReject::Body

Defines the body text for rejected emails.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule::NewTicketReject::Body'} = '  
Dear Customer,  
  
Unfortunately we could not detect a valid ticket number  
in your subject, so this email can't be processed.  
  
Please create a new ticket via the customer panel.  
  
Thanks for your help!  
  
Your Helpdesk Team  
';
```

PostMaster::PreFilterModule###4-CMD

CMD example setup. Ignores emails where external CMD returns some output on STD-OUT (email will be piped into STDIN of some.bin).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'4-CMD'} = {  
'CMD' => '/usr/bin/some.bin',  
'Module' => 'Kernel::System::PostMaster::Filter::CMD',  
'Set' => {  
  'X-OTRS-Ignore' => 'yes'  
}  
};
```

PostMaster::PreFilterModule###5-SpamAssassin

Spam Assassin example setup. Ignores emails that are marked with SpamAssassin.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'5-SpamAssassin'} = {  
'CMD' => '/usr/bin/spamassassin | grep -i "X-Spam-Status: yes"',  
'Module' => 'Kernel::System::PostMaster::Filter::CMD',
```

```
'Set' => {  
  'X-OTRS-Ignore' => 'yes'  
}  
};
```

PostMaster::PreFilterModule###6-SpamAssassin

Spam Assassin example setup. Moves marked mails to spam queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'6-SpamAssassin'} = {  
  'CMD' => '/usr/bin/spamassassin | grep -i "X-Spam-Status: yes"',  
  'Module' => 'Kernel::System::PostMaster::Filter::CMD',  
  'Set' => {  
    'X-OTRS-Queue' => 'spam'  
  }  
};
```

PostMaster::PreFilterModule###000-MatchDBSource

Module to use database filter storage.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-MatchDBSource'} = {  
  'Module' => 'Kernel::System::PostMaster::Filter::MatchDBSource'  
};
```

PostMaster::PostFilterModule###000-FollowUpArticleTypeCheck

Module to check if arrived emails should be marked as email-internal (because of original forwarded internal email). ArticleType and SenderType define the values for the arrived email/article.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PostFilterModule'}->{'000-FollowUpArticleTypeCheck'} = {  
  'ArticleType' => 'email-internal',  
  'Module' => 'Kernel::System::PostMaster::Filter::FollowUpArticleTypeCheck',  
  'SenderType' => 'customer'  
};
```

PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition1

Recognize if a ticket is a follow-up to an existing ticket using an external ticket number.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition1'} = {  
  'ArticleType' => 'note-report',  
  'DynamicFieldName' => 'Name_X',  
  'FromAddressRegExp' => '\\s*@example.com',  
  'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',  
  'Name' => 'Some Description',  
  'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*',  
  'SearchInBody' => '1',  
  'SearchInSubject' => '1',  
  'SenderType' => 'system',  
  'TicketStateTypes' => 'new;open'  
};
```

PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition2

Recognize if a ticket is a follow-up to an existing ticket using an external ticket number.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition2'} = {
  'ArticleType' => 'note-report',
  'DynamicFieldName' => 'Name_X',
  'FromAddressRegExp' => '\\s*@example.com',
  'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',
  'Name' => 'Some Description',
  'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*',
  'SearchInBody' => '1',
  'SearchInSubject' => '1',
  'SenderType' => 'system',
  'TicketStateTypes' => 'new;open'
};
```

PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition3

Recognize if a ticket is a follow-up to an existing ticket using an external ticket number.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition3'} = {
  'ArticleType' => 'note-report',
  'DynamicFieldName' => 'Name_X',
  'FromAddressRegExp' => '\\s*@example.com',
  'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',
  'Name' => 'Some Description',
  'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*',
  'SearchInBody' => '1',
  'SearchInSubject' => '1',
  'SenderType' => 'system',
  'TicketStateTypes' => 'new;open'
};
```

PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition4

Recognize if a ticket is a follow-up to an existing ticket using an external ticket number.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition4'} = {
  'ArticleType' => 'note-report',
  'DynamicFieldName' => 'Name_X',
  'FromAddressRegExp' => '\\s*@example.com',
  'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',
  'Name' => 'Some Description',
  'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*',
  'SearchInBody' => '1',
  'SearchInSubject' => '1',
  'SenderType' => 'system',
  'TicketStateTypes' => 'new;open'
};
```

PostMaster::PreFilterModule###000-DecryptBody

Module to filter encrypted bodies of incoming messages.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-DecryptBody'} = {
  'Module' => 'Kernel::System::PostMaster::Filter::Decrypt',
  'StoreDecryptedBody' => '0'
};
```

PostMaster::PreFilterModule###000-SMIMEFetchFromCustomer

Module to fetch customer users SMIME certificates of incoming messages.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::PreFilterModule'}->{'000-SMIMEFetchFromCustomer'} = {  
  'Module' => 'Kernel::System::PostMaster::Filter::SMIMEFetchFromCustomer'  
};
```

PostMaster::CheckFollowUpModule###0100-Subject

Checks if an E-Mail is a followup to an existing ticket by searching the subject for a valid ticket number.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::CheckFollowUpModule'}->{'0100-Subject'} = {  
  'Module' => 'Kernel::System::PostMaster::FollowUpCheck::Subject'  
};
```

PostMaster::CheckFollowUpModule###0200-References

Executes follow-up checks on In-Reply-To or References headers for mails that don't have a ticket number in the subject.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::CheckFollowUpModule'}->{'0200-References'} = {  
  'Module' => 'Kernel::System::PostMaster::FollowUpCheck::References'  
};
```

PostMaster::CheckFollowUpModule###0300-Body

Executes follow-up checks on email body for mails that don't have a ticket number in the subject.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::CheckFollowUpModule'}->{'0300-Body'} = {  
  'Module' => 'Kernel::System::PostMaster::FollowUpCheck::Body'  
};
```

PostMaster::CheckFollowUpModule###0400-Attachments

Executes follow-up checks on attachment contents for mails that don't have a ticket number in the subject.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::CheckFollowUpModule'}->{'0400-Attachments'} = {  
  'Module' => 'Kernel::System::PostMaster::FollowUpCheck::Attachments'  
};
```

PostMaster::CheckFollowUpModule###0500-RawEmail

Executes follow-up checks on the raw source email for mails that don't have a ticket number in the subject.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'PostMaster::CheckFollowUpModule'}->{'0500-RawEmail'} = {  
  'Module' => 'Kernel::System::PostMaster::FollowUpCheck::RawEmail'  
};
```

SendNoAutoResponseRegExp

If this regex matches, no message will be send by the autoresponder.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'SendNoAutoResponseRegExp'} = '(MAILER-DAEMON|postmaster|abuse)@.+?\.\.+?';
```

AutoResponseForWebTickets

If this option is set to 'Yes', tickets created via the web interface, via Customers or Agents, will receive an autoresponse if configured. If this option is set to 'No', no autoresponses will be sent.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AutoResponseForWebTickets'} = '1';
```

Ticket → Core::Queue

Queue::EventModulePost###2300-UpdateQueue

Event module that performs an update statement on TicketIndex to rename the queue name there if needed and if StaticDB is actually used.

Thamani chaguo-msingi:

```
$Self->{'Queue::EventModulePost'}->{'2300-UpdateQueue'} = {
  'Event' => 'QueueUpdate',
  'Module' => 'Kernel::System::Queue::Event::TicketAcceleratorUpdate',
  'Transaction' => '0'
};
```

Ticket → Core::Stats

Stats::DynamicObjectRegistration###Ticket

Module to generate ticket statistics.

Thamani chaguo-msingi:

```
$Self->{'Stats::DynamicObjectRegistration'}->{'Ticket'} = {
  'Module' => 'Kernel::System::Stats::Dynamic::Ticket'
};
```

Stats::DynamicObjectRegistration###TicketList

Determines if the statistics module may generate ticket lists.

Thamani chaguo-msingi:

```
$Self->{'Stats::DynamicObjectRegistration'}->{'TicketList'} = {
  'Module' => 'Kernel::System::Stats::Dynamic::TicketList'
};
```

Stats::DynamicObjectRegistration###TicketAccountedTime

Module to generate accounted time ticket statistics.

Thamani chaguo-msingi:

```
$Self->{'Stats::DynamicObjectRegistration'}->{'TicketAccountedTime'} = {
  'Module' => 'Kernel::System::Stats::Dynamic::TicketAccountedTime'
};
```

Stats::DynamicObjectRegistration###TicketSolutionResponseTime

Module to generate ticket solution and response time statistics.

Thamani chaguo-msingi:

```
$Self->{'Stats::DynamicObjectRegistration'}->{'TicketSolutionResponseTime'} = {
```

```
'Module' => 'Kernel::System::Stats::Dynamic::TicketSolutionResponseTime'  
};
```

Ticket → Core::Ticket

Ticket::Hook

The identifier for a ticket, e.g. Ticket#, Call#, MyTicket#. The default is Ticket#.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Hook'} = 'Ticket#';
```

Ticket::HookDivider

The divider between TicketHook and ticket number. E.g ': '.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::HookDivider'} = ' ';
```

Ticket::SubjectSize

Max size of the subjects in an email reply and in some overview screens.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SubjectSize'} = '100';
```

Ticket::SubjectRe

The text at the beginning of the subject in an email reply, e.g. RE, AW, or AS.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SubjectRe'} = 'Re';
```

Ticket::SubjectFwd

The text at the beginning of the subject when an email is forwarded, e.g. FW, Fwd, or WG.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SubjectFwd'} = 'Fwd';
```

Ticket::SubjectFormat

The format of the subject. 'Left' means '[TicketHook#:12345] Some Subject', 'Right' means 'Some Subject [TicketHook#:12345]', 'None' means 'Some Subject' and no ticket number. In the latter case you should verify that the setting PostMaster::CheckFollowUpModule###0200-References is activated to recognize followups based on email headers.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::SubjectFormat'} = 'Left';
```


Ticket::MergeDynamicFields

A list of dynamic fields that are merged into the main ticket during a merge operation. Only dynamic fields that are empty in the main ticket will be set.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::MergeDynamicFields'} = [];
```

Ticket::CustomQueue

Name of custom queue. The custom queue is a queue selection of your preferred queues and can be selected in the preferences settings.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomQueue'} = 'My Queues';
```

Ticket::CustomService

Name of custom service. The custom service is a service selection of your preferred services and can be selected in the preferences settings.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomService'} = 'My Services';
```

Ticket::NewArticleIgnoreSystemSender

Ignore article with system sender type for new article feature (e. g. auto responses or email notifications).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::NewArticleIgnoreSystemSender'} = '0';
```

Ticket::ChangeOwnerToEveryone

Changes the owner of tickets to everyone (useful for ASP). Normally only agent with rw permissions in the queue of the ticket will be shown.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ChangeOwnerToEveryone'} = '0';
```

Ticket::Responsible

Enables ticket responsible feature, to keep track of a specific ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Responsible'} = '0';
```

Ticket::ResponsibleAutoSet

Automatically sets the owner of a ticket as the responsible for it (if ticket responsible feature is enabled). This will only work by manually actions of the logged in user. It does not work for automated actions e.g. GenericAgent, Postmaster and GenericInterface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ResponsibleAutoSet'} = '1';
```

Ticket::InvalidOwner::StateChange

Automatically change the state of a ticket with an invalid owner once it is unlocked. Maps from a state type to a new ticket state.

Thamani chaguo-msingi:

```
$Self->{'Ticket::InvalidOwner::StateChange'} = {  
  'pending auto' => 'open',  
  'pending reminder' => 'open'  
};
```

Ticket::Type

Allows defining new types for ticket (if ticket type feature is enabled).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Type'} = '0';
```

Ticket::Type::Default

Defines the default ticket type.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Type::Default'} = 'Unclassified';
```

Ticket::Service

Allows defining services and SLAs for tickets (e. g. email, desktop, network, ...), and escalation attributes for SLAs (if ticket service/SLA feature is enabled).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Service'} = '0';
```

Ticket::Service::KeepChildren

Retains all services in listings even if they are children of invalid elements.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Service::KeepChildren'} = '0';
```

Ticket::Service::Default::UnknownCustomer

Allows default services to be selected also for non existing customers.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Service::Default::UnknownCustomer'} = '0';
```

Ticket::ArchiveSystem

Activates the ticket archive system to have a faster system by moving some tickets out of the daily scope. To search for these tickets, the archive flag has to be enabled in the ticket search.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ArchiveSystem'} = '0';
```

Ticket::ArchiveSystem::RemoveSeenFlags

Controls if the ticket and article seen flags are removed when a ticket is archived.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ArchiveSystem::RemoveSeenFlags'} = '1';
```

Ticket::ArchiveSystem::RemoveTicketWatchers

Removes the ticket watcher information when a ticket is archived.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ArchiveSystem::RemoveTicketWatchers'} = '1';
```

Ticket::CustomerArchiveSystem

Activates the ticket archive system search in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomerArchiveSystem'} = '0';
```

Ticket::NumberGenerator

Selects the ticket number generator module. "AutoIncrement" increments the ticket number, the SystemID and the counter are used with SystemID.counter format (e.g. 1010138, 1010139). With "Date" the ticket numbers will be generated by the current date, the SystemID and the counter. The format looks like Year.Month.Day.SystemID.counter (e.g. 200206231010138, 200206231010139). With "DateChecksum" the counter will be appended as checksum to the string of date and SystemID. The checksum will be rotated on a daily basis. The format looks like Year.Month.Day.SystemID.Counter.CheckSum (e.g. 2002070110101520, 2002070110101535). "Random" generates randomized ticket numbers in the format "SystemID.Random" (e.g. 100057866352, 103745394596).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::NumberGenerator'} = 'Kernel::System::Ticket::Number::DateChecksum';
```

Ticket::NumberGenerator::CheckSystemID

Checks the SystemID in ticket number detection for follow-ups (use "No" if SystemID has been changed after using the system).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::NumberGenerator::CheckSystemID'} = '1';
```

Ticket::NumberGenerator::MinCounterSize

Sets the minimal ticket counter size if "AutoIncrement" was selected as TicketNumberGenerator. Default is 5, this means the counter starts from 10000.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::NumberGenerator::MinCounterSize'} = '5';
```

Ticket::NumberGenerator::Date::UseFormattedCounter

Enables the minimal ticket counter size (if "Date" was selected as TicketNumberGenerator).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::NumberGenerator::Date::UseFormattedCounter'} = '0';
```

Ticket::CounterLog

Log file for the ticket counter.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CounterLog'} = '<OTRS_CONFIG_Home>/var/log/TicketCounter.log';
```

Ticket::IndexModule

IndexAccelerator: to choose your backend TicketViewAccelerator module. "RuntimeDB" generates each queue view on the fly from ticket table (no performance problems up to approx. 60.000 tickets in total and 6.000 open tickets in the system). "StaticDB" is the most powerful module, it uses an extra ticket-index table that works like a view (recommended if more than 80.000 and 6.000 open tickets are stored in the system). Use the command "bin/otrs.Console.pl Maint::Ticket::QueueIndexRebuild" for initial index creation.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::IndexModule'} =  
'Kernel::System::Ticket::IndexAccelerator::RuntimeDB';
```

Ticket::StorageModule

Saves the attachments of articles. "DB" stores all data in the database (not recommended for storing big attachments). "FS" stores the data on the filesystem; this is faster but the webserver should run under the OTRS user. You can switch between the modules even on a system that is already in production without any loss of data. Note: Searching for attachment names is not supported when "FS" is used.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::StorageModule'} = 'Kernel::System::Ticket::ArticleStorageDB';
```

Ticket::StorageModule::CheckAllBackends

Specifies whether all storage backends should be checked when looking for attachments. This is only required for installations where some attachments are in the file system, and others in the database.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::StorageModule::CheckAllBackends'} = '0';
```

ArticleDir

Specifies the directory to store the data in, if "FS" was selected for TicketStorageModule.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ArticleDir'} = '<OTRS_CONFIG_Home>/var/article';
```

OTRSEscalationEvents::DecayTime

The duration in minutes after emitting an event, in which the new escalation notify and start events are suppressed.

Thamani chaguo-msingi:

```
$Self->{'OTRSEscalationEvents::DecayTime'} = '1440';
```

Ticket::EventModulePost###2300-ArchiveRestore

Restores a ticket from the archive (only if the event is a state change to any open available state).

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'2300-ArchiveRestore'} = {
  'Event' => 'TicketStateUpdate',
  'Module' => 'Kernel::System::Ticket::Event::ArchiveRestore'
};
```

Ticket::EventModulePost###2600-AcceleratorUpdate

Updates the ticket index accelerator.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'2600-AcceleratorUpdate'} = {
  'Event' => 'TicketStateUpdate|TicketQueueUpdate|TicketLockUpdate',
  'Module' => 'Kernel::System::Ticket::Event::TicketAcceleratorUpdate'
};
```

Ticket::EventModulePost###2700-ForceOwnerResetOnMove

Resets and unlocks the owner of a ticket if it was moved to another queue.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'2700-ForceOwnerResetOnMove'} = {
  'Event' => 'TicketQueueUpdate',
  'Module' => 'Kernel::System::Ticket::Event::ForceOwnerReset'
};
```

Ticket::EventModulePost###2800-ForceStateChangeOnLock

Forces to choose a different ticket state (from current) after lock action. Define the current state as key, and the next state after lock action as content.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'2800-ForceStateChangeOnLock'} = {
  'Event' => 'TicketLockUpdate',
  'Module' => 'Kernel::System::Ticket::Event::ForceState',
  'new' => 'open'
};
```

Ticket::EventModulePost###3000-ResponsibleAutoSet

Automatically sets the responsible of a ticket (if it is not set yet) after the first owner update.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'3000-ResponsibleAutoSet'} = {
  'Event' => 'TicketOwnerUpdate',
  'Module' => 'Kernel::System::Ticket::Event::ResponsibleAutoSet'
};
```

Ticket::EventModulePost###3300-TicketPendingTimeReset

Sets the PendingTime of a ticket to 0 if the state is changed to a non-pending state.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'3300-TicketPendingTimeReset'} = {
  'Event' => 'TicketStateUpdate',
  'Module' => 'Kernel::System::Ticket::Event::TicketPendingTimeReset'
};
```

Ticket::EventModulePost###7000-NotificationEvent

Sends the notifications which are configured in the admin interface under "Notification (Event)".

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'7000-NotificationEvent'} = {
  'Event' => '',
  'Module' => 'Kernel::System::Ticket::Event::NotificationEvent',
  'Transaction' => '1'
};
```

Ticket::EventModulePost###6000-EscalationIndex

Updates the ticket escalation index after a ticket attribute got updated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'6000-EscalationIndex'} = {
  'Event' => 'TicketSLAUpdate|TicketQueueUpdate|TicketStateUpdate|TicketCreate|
ArticleCreate|TicketDynamicFieldUpdate|TicketTypeUpdate|TicketServiceUpdate|
TicketCustomerUpdate|TicketPriorityUpdate|TicketMerge',
  'Module' => 'Kernel::System::Ticket::Event::TicketEscalationIndex',
  'Transaction' => '1'
};
```

Ticket::EventModulePost###4300-EscalationStopEvents

Ticket event module that triggers the escalation stop events.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'4300-EscalationStopEvents'} = {
  'Event' => 'TicketSLAUpdate|TicketQueueUpdate|TicketStateUpdate|ArticleCreate',
  'Module' => 'Kernel::System::Ticket::Event::TriggerEscalationStopEvents',
  'Transaction' => '0'
};
```

Ticket::EventModulePost###3600-ForceUnlockOnMove

Forces to unlock tickets after being moved to another queue.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'3600-ForceUnlockOnMove'} = {
  'Event' => 'TicketQueueUpdate',
  'Module' => 'Kernel::System::Ticket::Event::ForceUnlock'
};
```

Ticket::EventModulePost###4000-TicketArticleNewMessageUpdate

Update Ticket "Seen" flag if every article got seen or a new Article got created.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'4000-TicketArticleNewMessageUpdate'} = {
  'Event' => 'ArticleCreate|ArticleFlagSet',
  'Module' => 'Kernel::System::Ticket::Event::TicketNewMessageUpdate'
};
```

```
};
```

DynamicFieldFromCustomerUser::Mapping

Define a mapping between variables of the customer user data (keys) and dynamic fields of a ticket (values). The purpose is to store customer user data in ticket dynamic fields. The dynamic fields must be present in the system and should be enabled for AgentTicketFreeText, so that they can be set/updated manually by the agent. They mustn't be enabled for AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer. If they were, they would have precedence over the automatically set values. To use this mapping, you have to also activate the next setting below.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'DynamicFieldFromCustomerUser::Mapping'} = {
  'UserFirstname' => 'CustomerFirstname'
};
```

Ticket::EventModulePost###4100-DynamicFieldFromCustomerUser

This event module stores attributes from CustomerUser as DynamicFields tickets. Please see the setting above for how to configure the mapping.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'4100-DynamicFieldFromCustomerUser'} = {
  'Event' => '(TicketCreate|TicketCustomerUpdate)',
  'Module' => 'Kernel::System::Ticket::Event::DynamicFieldFromCustomerUser'
};
```

Ticket::CustomModule###001-CustomModule

Overloads (redefines) existing functions in Kernel::System::Ticket. Used to easily add customizations.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomModule'}->{'001-CustomModule'} =
  'Kernel::System::Ticket::Custom';
```

Ticket::ViewableSenderTypes

Defines the default viewable sender types of a ticket (default: customer).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ViewableSenderTypes'} = [
  '\customer\'
];
```

Ticket::ViewableLocks

Defines the viewable locks of a ticket. NOTE: When you change this setting, make sure to delete the cache in order to use the new value. Default: unlock, tmp_lock.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ViewableLocks'} = [
  '\unlock\'',
  '\tmp_lock\'
];
```


Ticket::ViewableStateType

Defines the valid state types for a ticket.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ViewableStateType'} = [  
  'new',  
  'open',  
  'pending reminder',  
  'pending auto'  
];
```

Ticket::UnlockStateType

Defines the valid states for unlocked tickets. To unlock tickets the script "bin/otrs.Console.pl Maint::Ticket::UnlockTimeout" can be used.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::UnlockStateType'} = [  
  'new',  
  'open'  
];
```

Ticket::PendingNotificationOnlyToOwner

Sends reminder notifications of unlocked ticket after reaching the reminder date (only sent to ticket owner).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::PendingNotificationOnlyToOwner'} = '0';
```

Ticket::PendingNotificationNotToResponsible

Disables sending reminder notifications to the responsible agent of a ticket (Ticket::Responsible needs to be activated).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::PendingNotificationNotToResponsible'} = '0';
```

Ticket::PendingReminderStateType

Defines the state type of the reminder for pending tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::PendingReminderStateType'} = [  
  'pending reminder'  
];
```

Ticket::PendingAutoStateType

Determines the possible states for pending tickets that changed state after reaching time limit.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Ticket::PendingAutoStateType'} = [
  'pending auto'
];
```

Ticket::StateAfterPending

Defines which states should be set automatically (Content), after the pending time of state (Key) has been reached.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::StateAfterPending'} = {
  'pending auto close+' => 'closed successful',
  'pending auto close-' => 'closed unsuccessful'
};
```

System::Permission

Standard available permissions for agents within the application. If more permissions are needed, they can be entered here. Permissions must be defined to be effective. Some other good permissions have also been provided built-in: note, close, pending, customer, freetext, move, compose, responsible, forward, and bounce. Make sure that "rw" is always the last registered permission.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'System::Permission'} = [
  'ro',
  'move_into',
  'create',
  'note',
  'owner',
  'priority',
  'rw'
];
```

Ticket::Permission###1-OwnerCheck

Module to grant access to the owner of a ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'1-OwnerCheck'} = {
  'Granted' => '1',
  'Module' => 'Kernel::System::Ticket::Permission::OwnerCheck',
  'Required' => '0'
};
```

Ticket::Permission::OwnerCheck::Queues

Optional queue limitation for the OwnerCheck permission module. If set, permission is only granted for tickets in the specified queues.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission::OwnerCheck::Queues'} = {
  'Misc' => 'note',
  'Postmaster' => 'ro, move, note',
  'Raw' => 'rw'
};
```

Ticket::Permission###2-ResponsibleCheck

Module to grant access to the agent responsible of a ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'2-ResponsibleCheck'} = {
  'Granted' => '1',
  'Module' => 'Kernel::System::Ticket::Permission::ResponsibleCheck',
  'Required' => '0'
};
```

Ticket::Permission::ResponsibleCheck::Queues

Optional queue limitation for the ResponsibleCheck permission module. If set, permission is only granted for tickets in the specified queues.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission::ResponsibleCheck::Queues'} = {
  'Misc' => 'note',
  'Postmaster' => 'ro, move, note',
  'Raw' => 'rw'
};
```

Ticket::Permission###3-GroupCheck

Module to check the group permissions for the access to tickets.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'3-GroupCheck'} = {
  'Granted' => '1',
  'Module' => 'Kernel::System::Ticket::Permission::GroupCheck',
  'Required' => '0'
};
```

Ticket::Permission###4-WatcherCheck

Module to grant access to the watcher agents of a ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'4-WatcherCheck'} = {
  'Granted' => '1',
  'Module' => 'Kernel::System::Ticket::Permission::WatcherCheck',
  'Required' => '0'
};
```

Ticket::Permission###5-CreatorCheck

Module to grant access to the creator of a ticket.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'5-CreatorCheck'} = {
  'Granted' => '1',
  'Module' => 'Kernel::System::Ticket::Permission::CreatorCheck',
  'Required' => '0'
};
```

Ticket::Permission::CreatorCheck::Queues

Optional queue limitation for the CreatorCheck permission module. If set, permission is only granted for tickets in the specified queues.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission::CreatorCheck::Queues'} = {
  'Misc' => 'note',
  'Postmaster' => 'ro, move, note',
  'Raw' => 'rw'
};
```

Ticket::Permission###6-InvolvedCheck

Module to grant access to any agent that has been involved in a ticket in the past (based on ticket history entries).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission'}->{'6-InvolvedCheck'} = {  
  'Granted' => '1',  
  'Module' => 'Kernel::System::Ticket::Permission::InvolvedCheck',  
  'Required' => '0'  
};
```

Ticket::Permission::InvolvedCheck::Queues

Optional queue limitation for the InvolvedCheck permission module. If set, permission is only granted for tickets in the specified queues.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Permission::InvolvedCheck::Queues'} = {  
  'Misc' => 'note',  
  'Postmaster' => 'ro, move, note',  
  'Raw' => 'rw'  
};
```

CustomerTicket::Permission###1-GroupCheck

Module to check the group permissions for customer access to tickets.

Thamani chaguo-msingi:

```
$Self->{'CustomerTicket::Permission'}->{'1-GroupCheck'} = {  
  'Granted' => '0',  
  'Module' => 'Kernel::System::Ticket::CustomerPermission::GroupCheck',  
  'Required' => '1'  
};
```

CustomerTicket::Permission###2-CustomerUserIDCheck

Module to grant access if the CustomerUserID of the ticket matches the CustomerUserID of the customer.

Thamani chaguo-msingi:

```
$Self->{'CustomerTicket::Permission'}->{'2-CustomerUserIDCheck'} = {  
  'Granted' => '1',  
  'Module' => 'Kernel::System::Ticket::CustomerPermission::CustomerUserIDCheck',  
  'Required' => '0'  
};
```

CustomerTicket::Permission###3-CustomerIDCheck

Module to grant access if the CustomerID of the ticket matches the CustomerID of the customer.

Thamani chaguo-msingi:

```
$Self->{'CustomerTicket::Permission'}->{'3-CustomerIDCheck'} = {  
  'Granted' => '1',  
  'Module' => 'Kernel::System::Ticket::CustomerPermission::CustomerIDCheck',  
  'Required' => '0'  
};
```

Ticket::DefineEmailFrom

Defines how the From field from the emails (sent from answers and email tickets) should look like.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::DefineEmailFrom'} = 'SystemAddressName';
```

Ticket::DefineEmailFromSeparator

Defines the separator between the agents real name and the given queue email address.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::DefineEmailFromSeparator'} = 'via';
```

CustomerNotifyJustToRealCustomer

Sends customer notifications just to the mapped customer.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerNotifyJustToRealCustomer'} = '0';
```

AgentSelfNotifyOnAction

Specifies if an agent should receive email notification of his own actions.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'AgentSelfNotifyOnAction'} = '0';
```

Ticket::EventModulePost###9700-GenericAgent

Event module registration. For more performance you can define a trigger event (e.g. Event => TicketCreate).

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'9700-GenericAgent'} = {
  'Event' => '',
  'Module' => 'Kernel::System::Ticket::Event::GenericAgent',
  'Transaction' => '1'
};
```

Ticket::GenericAgentTicketSearch###ExtendedSearchCondition

Allows extended search conditions in ticket search of the generic agent interface. With this feature you can search e.g. ticket title with this kind of conditions like "(*key1*&&*key2*)" or "(*key1*||*key2*)".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::GenericAgentTicketSearch'}->{'ExtendedSearchCondition'} = '1';
```

Ticket::GenericAgentRunLimit

Set the limit of tickets that will be executed on a single genericagent job execution.

Thamani chaguo-msingi:

```
$Self->{'Ticket::GenericAgentRunLimit'} = '4000';
```

Ticket::UnlockOnAway

Unlock tickets whenever a note is added and the owner is out of office.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::UnlockOnAway'} = '1';
```

Ticket::IncludeUnknownTicketCustomers

Include unknown customers in ticket filter.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::IncludeUnknownTicketCustomers'} = '0';
```

StandardTemplate::Types

Defines the list of types for templates.

Thamani chaguo-msingi:

```
$Self->{'StandardTemplate::Types'} = {
  'Answer' => 'Answer',
  'Create' => 'Create',
  'Email' => 'Email',
  'Forward' => 'Forward',
  'Note' => 'Note',
  'PhoneCall' => 'Phone call'
};
```

StandardTemplate2QueueByCreating

List of default Standard Templates which are assigned automatically to new Queues upon creation.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'StandardTemplate2QueueByCreating'} = [
  ''
];
```

Ticket::Frontend::DefaultRecipientDisplayType

Default display type for recipient (To,Cc) names in AgentTicketZoom and CustomerTicketZoom.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::DefaultRecipientDisplayType'} = 'Realname';
```

Ticket::Frontend::DefaultSenderDisplayType

Default display type for sender (From) names in AgentTicketZoom and CustomerTicketZoom.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::DefaultSenderDisplayType'} = 'Realname';
```

Ticket → Core::TicketACL

Ticket::Acl::Module###1-Ticket::Acl::Module

ACL module that allows closing parent tickets only if all its children are already closed ("State" shows which states are not available for the parent ticket until all child tickets are closed).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Acl::Module'}->{'1-Ticket::Acl::Module'} = {
  'Module' => 'Kernel::System::Ticket::Acl::CloseParentAfterClosedChilds',
  'State' => [
    'closed successful',
    'closed unsuccessful'
  ]
};
```

TicketACL::Default::Action

Default ACL values for ticket actions.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TicketACL::Default::Action'} = {};
```

ACLKeysLevel1Match

Defines which items are available in first level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel1Match'} = {
  'Properties' => 'Properties',
  'PropertiesDatabase' => 'PropertiesDatabase'
};
```

ACLKeysLevel1Change

Defines which items are available in first level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel1Change'} = {
  'Possible' => 'Possible',
  'PossibleAdd' => 'PossibleAdd',
  'PossibleNot' => 'PossibleNot'
};
```

ACLKeysLevel2::Possible

Defines which items are available in second level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel2::Possible'} = {
  'Action' => 'Action',
  'ActivityDialog' => 'ActivityDialog',
  'Process' => 'Process',
  'Ticket' => 'Ticket'
};
```

ACLKeysLevel2::PossibleAdd

Defines which items are available in second level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel2::PossibleAdd'} = {
  'Action' => 'Action',
  'ActivityDialog' => 'ActivityDialog',
  'Process' => 'Process',
  'Ticket' => 'Ticket'
};
```

ACLKeysLevel2::PossibleNot

Defines which items are available in second level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel2::PossibleNot'} = {
  'Action' => 'Action',
  'ActivityDialog' => 'ActivityDialog',
  'Process' => 'Process',
  'Ticket' => 'Ticket'
};
```

ACLKeysLevel2::Properties

Defines which items are available in second level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel2::Properties'} = {
  'CustomerUser' => 'CustomerUser',
  'DynamicField' => 'DynamicField',
  'Frontend' => 'Frontend',
  'Owner' => 'Owner',
  'Priority' => 'Priority',
  'Process' => 'Process',
  'Queue' => 'Queue',
  'Responsible' => 'Responsible',
  'SLA' => 'SLA',
  'Service' => 'Service',
  'State' => 'State',
  'Ticket' => 'Ticket',
  'Type' => 'Type',
  'User' => 'User'
};
```

ACLKeysLevel2::PropertiesDatabase

Defines which items are available in second level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel2::PropertiesDatabase'} = {
  'CustomerUser' => 'CustomerUser',
  'DynamicField' => 'DynamicField',
  'Owner' => 'Owner',
  'Priority' => 'Priority',
  'Process' => 'Process',
  'Queue' => 'Queue',
  'Responsible' => 'Responsible',
  'SLA' => 'SLA',
  'Service' => 'Service',
  'State' => 'State',
  'Ticket' => 'Ticket',
  'Type' => 'Type',
  'User' => 'User'
};
```

ACLKeysLevel3::Actions###100-Default

Defines which items are available for 'Action' in third level of the ACL structure.

Thamani chaguo-msingi:

```
$Self->{'ACLKeysLevel3::Actions'}->{'100-Default'} = [
  'AgentTicketBounce',
  'AgentTicketClose',
  'AgentTicketCompose',
  'AgentTicketCustomer',
  'AgentTicketForward',
  'AgentTicketEmailOutbound',
  'AgentTicketFreeText',
  'AgentTicketHistory',
  'AgentTicketLink',
  'AgentTicketLock',
  'AgentTicketMerge',
  'AgentTicketMove',
  'AgentTicketNote',
  'AgentTicketOwner',
```

```
'AgentTicketPending',
'AgentTicketPhone',
'AgentTicketPhoneInbound',
'AgentTicketPhoneOutbound',
'AgentTicketPlain',
'AgentTicketPrint',
'AgentTicketPriority',
'AgentTicketProcess',
'AgentTicketResponsible',
'AgentTicketSearch',
'AgentTicketWatcher',
'AgentTicketZoom',
'AgentLinkObject',
'CustomerTicketPrint',
'CustomerTicketProcess',
'CustomerTicketZoom'
];
```

ACL::CacheTTL

Cache time in seconds for the DB ACL backend.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'ACL::CacheTTL'} = '3600';
```

TicketACL::Debug::Enabled

If enabled debugging information for ACLs is logged.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'TicketACL::Debug::Enabled'} = '0';
```

TicketACL::Debug::LogPriority

Defines the priority in which the information is logged and presented.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TicketACL::Debug::LogPriority'} = 'debug';
```

TicketACL::Debug::Filter###00-Default

Filter for debugging ACLs. Note: More ticket attributes can be added in the format <OTRS_TICKET_Attribute> e.g. <OTRS_TICKET_Priority>.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'TicketACL::Debug::Filter'}->{'00-Default'} = {
  '<OTRS_TICKET_TicketNumber>' => '',
  'ACLName' => ''
};
```

Ticket → Core::TicketBulkAction

Ticket::Frontend::BulkFeature

Enables ticket bulk action feature for the agent frontend to work on more than one ticket at a time.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::BulkFeature'} = '1';
```

Ticket::Frontend::BulkFeatureGroup

Enables ticket bulk action feature only for the listed groups.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::BulkFeatureGroup'} = [
  'admin',
  'users'
];
```

Ticket → Core::TicketDynamicFieldDefault

Ticket::EventModulePost###9600-TicketDynamicFieldDefault

Event module registration. For more performance you can define a trigger event (e.g. Event => TicketCreate). This is only possible if all Ticket dynamic fields need the same event.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::EventModulePost'}->{'9600-TicketDynamicFieldDefault'} = {
  'Module' => 'Kernel::System::Ticket::Event::TicketDynamicFieldDefault',
  'Transaction' => '1'
};
```

Ticket::TicketDynamicFieldDefault###Element1

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element1'} = {
  'Event' => 'TicketCreate',
  'Name' => 'Field1',
  'Value' => 'Default'
};
```

Ticket::TicketDynamicFieldDefault###Element2

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element2'} = {
  'Event' => '',
  'Name' => '',
  'Value' => ''
};
```

Ticket::TicketDynamicFieldDefault###Element3

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the

trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element3'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element4

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element4'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element5

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element5'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element6

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element6'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element7

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element7'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element8

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element8'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element9

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element9'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element10

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element10'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element11

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element11'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element12

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element12'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element13

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element13'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element14

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element14'} = {  
  'Event' => '',  
  'Name' => '',  
  'Value' => ''  
};
```

Ticket::TicketDynamicFieldDefault###Element15

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element15'} = {
  'Event' => '',
  'Name' => '',
  'Value' => ''
};
```

Ticket::TicketDynamicFieldDefault###Element16

Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (<http://otrs.github.io/doc/>), chapter "Ticket Event Module".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element16'} = {
  'Event' => '',
  'Name' => '',
  'Value' => ''
};
```

Ticket → Core::TicketWatcher

Ticket::Watcher

Enables or disables the ticket watcher feature, to keep track of tickets without being the owner nor the responsible.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Watcher'} = '0';
```

Ticket::WatcherGroup

Enables ticket watcher feature only for the listed groups.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::WatcherGroup'} = [
  'admin',
  'users'
];
```

Ticket → Frontend::Admin

Events###Ticket

List of all ticket events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'Ticket'} = [
  'TicketCreate',
  'TicketDelete',
  'TicketTitleUpdate',
  'TicketUnlockTimeoutUpdate',
  'TicketQueueUpdate',
  'TicketTypeUpdate',
  'TicketServiceUpdate',
  'TicketSLAUpdate',
  'TicketCustomerUpdate',
  'TicketPendingTimeUpdate',
];
```

```
'TicketLockUpdate',
'TicketArchiveFlagUpdate',
'TicketStateUpdate',
'TicketOwnerUpdate',
'TicketResponsibleUpdate',
'TicketPriorityUpdate',
'HistoryAdd',
'HistoryDelete',
'TicketAccountTime',
'TicketMerge',
'TicketSubscribe',
'TicketUnsubscribe',
'TicketFlagSet',
'TicketFlagDelete',
'TicketSlaveLinkAdd',
'TicketSlaveLinkDelete',
'TicketMasterLinkDelete',
'EscalationResponseTimeNotifyBefore',
'EscalationUpdateTimeNotifyBefore',
'EscalationSolutionTimeNotifyBefore',
'EscalationResponseTimeStart',
'EscalationUpdateTimeStart',
'EscalationSolutionTimeStart',
'EscalationResponseTimeStop',
'EscalationUpdateTimeStop',
'EscalationSolutionTimeStop',
'NotificationNewTicket',
'NotificationFollowUp',
'NotificationLockTimeout',
'NotificationOwnerUpdate',
'NotificationResponsibleUpdate',
'NotificationAddNote',
'NotificationMove',
'NotificationPendingReminder',
'NotificationEscalation',
'NotificationEscalationNotifyBefore',
'NotificationServiceUpdate'
];
```

Events###Article

List of all article events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'Article'} = [
'ArticleCreate',
'ArticleUpdate',
'ArticleSend',
'ArticleBounce',
'ArticleAgentNotification',
'ArticleCustomerNotification',
'ArticleAutoResponse',
'ArticleFlagSet',
'ArticleFlagDelete',
'ArticleAgentNotification',
'ArticleCustomerNotification'
];
```

Events###Queue

List of all queue events to be displayed in the GUI.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Events'}->{'Queue'} = [
'QueueCreate',
'QueueUpdate'
];
```

Ticket → Frontend::Admin::AdminNotificationEvent

Frontend::Admin::AdminNotificationEvent###RichText

Uses richtext for viewing and editing ticket notification.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Admin::AdminNotificationEvent'}->{'RichText'} = '1';
```

Frontend::Admin::AdminNotificationEvent###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Frontend::Admin::AdminNotificationEvent'}->{'RichTextWidth'} = '620';
```

Frontend::Admin::AdminNotificationEvent###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Frontend::Admin::AdminNotificationEvent'}->{'RichTextHeight'} = '320';
```

Notification::Transport###Email

Defines all the parameters for this notification transport.

Thamani chaguo-msingi:

```
$Self->{'Notification::Transport'}->{'Email'} = {
  'AgentEnabledByDefault' => '1',
  'Icon' => 'fa fa-envelope',
  'IsOTRSBusinessTransport' => '0',
  'Module' => 'Kernel::System::Ticket::Event::NotificationEvent::Transport::Email',
  'Name' => 'Email',
  'Prio' => '100'
};
```

Notification::Transport###NotificationView

Defines all the parameters for this notification transport.

Thamani chaguo-msingi:

```
$Self->{'Notification::Transport'}->{'NotificationView'} = {
  'AgentEnabledByDefault' => '0',
  'Icon' => 'fa fa-th-list',
  'IsOTRSBusinessTransport' => '1',
  'Module' =>
  'Kernel::System::Ticket::Event::NotificationEvent::Transport::NotificationView',
  'Name' => 'Web View',
  'Prio' => '110'
};
```

Notification::Transport###SMS

Defines all the parameters for this notification transport.

Thamani chaguo-msingi:

```
$Self->{'Notification::Transport'}->{'SMS'} = {
  'AgentEnabledByDefault' => '0',
  'Icon' => 'fa fa-mobile',
  'IsOTRSBusinessTransport' => '1',
  'Module' => 'Kernel::System::Ticket::Event::NotificationEvent::Transport::SMS',
  'Name' => 'SMS (Short Message Service)',
  'Prio' => '120'
};
```

Notification::CharactersPerLine

Defines the number of character per line used in case an HTML article preview replacement on TemplateGenerator for EventNotifications.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Notification::CharactersPerLine'} = '80';
```

Ticket → Frontend::Admin::ModuleRegistration

Frontend::Module###AdminACL

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminACL'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.ACL.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.ACL.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Ticket',
    'Description' => 'Configure and manage ACLs.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Access Control Lists (ACL)',
    'Prio' => '750'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Access Control Lists (ACL)'
};
```

Frontend::Module###AdminQueue

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminQueue'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Queue.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage queues.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Queues',
    'Prio' => '100'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Queues'
};
```

Frontend::Module###AdminTemplate

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminTemplate'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Template.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage templates.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Templates',
    'Prio' => '200'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Templates'
};
```

Frontend::Module###AdminQueueTemplates

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminQueueTemplates'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.QueueTemplates.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Link templates to queues.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Templates ↔ Queues',
    'Prio' => '300'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Templates ↔ Queues'
};
```

Frontend::Module###AdminAutoResponse

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminAutoResponse'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.AutoResponse.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage responses that are automatically sent.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Auto Responses',
    'Prio' => '400'
  },
};
```

```
'NavBarName' => 'Admin',
'Title' => 'Auto Responses'
};
```

Frontend::Module###AdminQueueAutoResponse

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminQueueAutoResponse'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.QueueAutoResponse.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Link queues to auto responses.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Auto Responses ↔ Queues',
    'Prio' => '500'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Auto Responses ↔ Queues'
};
```

Frontend::Module###AdminAttachment

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminAttachment'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Attachment.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage attachments.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Attachments',
    'Prio' => '600'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Attachments'
};
```

Frontend::Module###AdminTemplateAttachment

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminTemplateAttachment'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.TemplateAttachment.js'
    ]
  }
};
```

```

},
'NavBarModule' => {
  'Block' => 'Queue',
  'Description' => 'Link attachments to templates.',
  'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
  'Name' => 'Attachments ↔ Templates',
  'Prio' => '700'
},
'NavBarName' => 'Admin',
'Title' => 'Attachments ↔ Templates'
};

```

Frontend::Module###AdminSalutation

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSalutation'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Salutation.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage salutations.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Salutations',
    'Prio' => '800'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Salutations'
};

```

Frontend::Module###AdminSignature

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSignature'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Signature.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Queue',
    'Description' => 'Create and manage signatures.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Signatures',
    'Prio' => '900'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Signatures'
};

```

Frontend::Module###AdminSystemAddress

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminSystemAddress'} = {

```

```
'Description' => 'This module is part of the admin area of OTRS.',
'Group' => [
  'admin'
],
'Loader' => {
  'JavaScript' => [
    'Core.Agent.Admin.SystemAddress.js'
  ]
},
'NavBarModule' => {
  'Block' => 'Email',
  'Description' => 'Set sender email addresses for this system.',
  'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
  'Name' => 'Email Addresses',
  'Prio' => '300'
},
'NavBarName' => 'Admin',
'Title' => 'Email Addresses'
};
```

Frontend::Module###AdminNotificationEvent

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminNotificationEvent'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'CSS' => [
      'Core.Agent.Admin.NotificationEvent.css'
    ],
    'JavaScript' => [
      'Core.Agent.Admin.NotificationEvent.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Ticket',
    'Description' => 'Create and manage ticket notifications.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Ticket Notifications',
    'Prio' => '400'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Ticket Notifications'
};
```

Frontend::Module###AdminService

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminService'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Service.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Ticket',
    'Description' => 'Create and manage services.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Services',
    'Prio' => '900'
  },
};
```

```
'NavBarName' => 'Admin',  
'Title' => 'Services'  
};
```

Frontend::Module###AdminSLA

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminSLA'} = {  
  'Description' => 'This module is part of the admin area of OTRS.',  
  'Group' => [  
    'admin'  
  ],  
  'Loader' => {  
    'JavaScript' => [  
      'Core.Agent.Admin.SLA.js'  
    ]  
  },  
  'NavBarModule' => {  
    'Block' => 'Ticket',  
    'Description' => 'Create and manage Service Level Agreements (SLAs).',  
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',  
    'Name' => 'Service Level Agreements',  
    'Prio' => '1000'  
  },  
  'NavBarName' => 'Admin',  
  'Title' => 'Service Level Agreements'  
};
```

Frontend::Module###AdminType

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminType'} = {  
  'Description' => 'This module is part of the admin area of OTRS.',  
  'Group' => [  
    'admin'  
  ],  
  'Loader' => {  
    'JavaScript' => [  
      'Core.Agent.Admin.Type.js'  
    ]  
  },  
  'NavBarModule' => {  
    'Block' => 'Ticket',  
    'Description' => 'Create and manage ticket types.',  
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',  
    'Name' => 'Types',  
    'Prio' => '700'  
  },  
  'NavBarName' => 'Admin',  
  'Title' => 'Types'  
};
```

Frontend::Module###AdminState

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AdminState'} = {  
  'Description' => 'This module is part of the admin area of OTRS.',  
  'Group' => [  
    'admin'  
  ],  
  'Loader' => {  
    'JavaScript' => [  
      'Core.Agent.Admin.State.js'  
    ]  
  }  
};
```

```

},
'NavBarModule' => {
  'Block' => 'Ticket',
  'Description' => 'Create and manage ticket states.',
  'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
  'Name' => 'States',
  'Prio' => '800'
},
'NavBarName' => 'Admin',
'Title' => 'States'
};

```

Frontend::Module###AdminPriority

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminPriority'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.Priority.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'Ticket',
    'Description' => 'Create and manage ticket priorities.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'Priorities',
    'Prio' => '850'
  },
  'NavBarName' => 'Admin',
  'Title' => 'Priorities'
};

```

Frontend::Module###AdminGenericAgent

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AdminGenericAgent'} = {
  'Description' => 'This module is part of the admin area of OTRS.',
  'Group' => [
    'admin'
  ],
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.Admin.GenericAgent.js'
    ]
  },
  'NavBarModule' => {
    'Block' => 'System',
    'Description' => 'Manage tasks triggered by event or time based execution.',
    'Module' => 'Kernel::Output::HTML::NavBar::ModuleAdmin',
    'Name' => 'GenericAgent',
    'Prio' => '300'
  },
  'NavBarName' => 'Admin',
  'Title' => 'GenericAgent'
};

```

Ticket → Frontend::Agent

Ticket::Frontend::PendingDiffTime

Time in seconds that gets added to the actual time if setting a pending-state (default: 86400 = 1 day).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PendingDiffTime'} = '86400';
```

Ticket::Frontend::MaxQueueLevel

Define the max depth of queues.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MaxQueueLevel'} = '5';
```

Ticket::Frontend::ListType

Shows existing parent/child queue lists in the system in the form of a tree or a list.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ListType'} = 'tree';
```

Ticket::Frontend::TextAreaEmail

Permitted width for compose email windows.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::TextAreaEmail'} = '82';
```

Ticket::Frontend::TextAreaNote

Permitted width for compose note windows.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::TextAreaNote'} = '78';
```

Ticket::Frontend::InformAgentMaxSize

Max size (in rows) of the informed agents box in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::InformAgentMaxSize'} = '3';
```

Ticket::Frontend::InvolvedAgentMaxSize

Max size (in rows) of the involved agents box in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::InvolvedAgentMaxSize'} = '3';
```

Ticket::Frontend::CustomerInfoCompose

Shows the customer user information (phone and email) in the compose screen.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerInfoCompose'} = '1';
```

Ticket::Frontend::CustomerInfoComposeMaxSize

Max size (in characters) of the customer information table (phone and email) in the compose screen.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerInfoComposeMaxSize'} = '22';
```

Ticket::Frontend::CustomerInfoZoom

Shows the customer user's info in the ticket zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerInfoZoom'} = '1';
```

Ticket::Frontend::CustomerInfoZoomMaxSize

Maximum size (in characters) of the customer information table in the ticket zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerInfoZoomMaxSize'} = '22';
```

Ticket::Frontend::DynamicFieldsZoomMaxSizeSidebar

Maximum length (in characters) of the dynamic field in the sidebar of the ticket zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::DynamicFieldsZoomMaxSizeSidebar'} = '18';
```

Ticket::Frontend::DynamicFieldsZoomMaxSizeArticle

Maximum length (in characters) of the dynamic field in the article of the ticket zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::DynamicFieldsZoomMaxSizeArticle'} = '160';
```

Ticket::Frontend::AccountTime

Activates time accounting.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AccountTime'} = '1';
```

Ticket::Frontend::TimeUnits

Sets the preferred time units (e.g. work units, hours, minutes).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::TimeUnits'} = ' (work units)';
```

Ticket::Frontend::NeedAccountedTime

Defines if time accounting is mandatory in the agent interface. If activated, a note must be entered for all ticket actions (no matter if the note itself is configured as active or is originally mandatory for the individual ticket action screen).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NeedAccountedTime'} = '0';
```

Ticket::Frontend::BulkAccountedTime

Defines if time accounting must be set to all tickets in bulk action.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::BulkAccountedTime'} = '1';
```

Ticket::Frontend::NeedSpellCheck

Defines if composed messages have to be spell checked in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NeedSpellCheck'} = '0';
```

Ticket::Frontend::NewOwnerSelection

Shows an owner selection in phone and email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NewOwnerSelection'} = '1';
```

Ticket::Frontend::NewResponsibleSelection

Show a responsible selection in phone and email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NewResponsibleSelection'} = '1';
```

Ticket::Frontend::NewQueueSelectionType

Defines the recipient target of the phone ticket and the sender of the email ticket ("Queue" shows all queues, "System address" displays all system addresses) in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NewQueueSelectionType'} = 'Queue';
```

Ticket::Frontend::NewQueueSelectionString

Determines the strings that will be shown as recipient (To:) of the phone ticket and as sender (From:) of the email ticket in the agent interface. For Queue as NewQueueSelectionType "<Queue>" shows the names of the queues and for SystemAddress "<Realname> <<Email>>" shows the name and email of the recipient.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NewQueueSelectionString'} = '<Queue>';
```

Ticket::Frontend::NewQueueOwnSelection

Determines which options will be valid of the recipient (phone ticket) and the sender (email ticket) in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::NewQueueOwnSelection'} = {
  '1' => 'First Queue',
  '2' => 'Second Queue'
};
```

Ticket::Frontend::ShowCustomerTickets

Shows customer history tickets in AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ShowCustomerTickets'} = '1';
```

NewTicketInNewWindow::Enabled

If enabled, TicketPhone and TicketEmail will be open in new windows.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'NewTicketInNewWindow::Enabled'} = '0';
```

CustomerDBLink

Defines an external link to the database of the customer (e.g. 'http://yourhost/customer.php?CID=[% Data.CustomerID %]' or '').

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerDBLink'} = "[% Env('CGIHandle') %]?
Action=AgentCustomerInformationCenter;CustomerID=[% Data.CustomerID | uri %]";
```

CustomerDBLinkTarget

Defines the target attribute in the link to external customer database. E.g. 'target="cdb"'.
 This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerDBLinkTarget'} = '';
```

CustomerDBLinkClass

Defines the target attribute in the link to external customer database. E.g. 'AsPopup PopupType_TicketAction'.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerDBLinkClass'} = '';
```

Frontend::CommonParam###Action

Defines the default used Frontend-Module if no Action parameter given in the url on the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CommonParam'}->{'Action'} = 'AgentDashboard';
```

Frontend::CommonParam###QueueID

Default queue ID used by the system in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CommonParam'}->{'QueueID'} = '0';
```

Frontend::CommonParam###TicketID

Default ticket ID used by the system in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CommonParam'}->{'TicketID'} = '';
```

DefaultOverviewColumns

General ticket data shown in the ticket overviews (fall-back). Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note that TicketNumber can not be disabled, because it is necessary.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DefaultOverviewColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '2',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '2',
```

```
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Dashboard

DashboardBackend###0100-TicketPendingReminder

Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0100-TicketPendingReminder'} = {
  'Attributes' => 'TicketPendingTimeOlderMinutes=1;StateType=pending
reminder;SortBy=PendingTime;OrderBy=Down;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All tickets with a reminder set where the reminder date has been
reached',
  'Filter' => 'Locked',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'rw',
  'Time' => 'UntilTime',
  'Title' => 'Reminder Tickets'
};
```

DashboardBackend###0110-TicketEscalation

Parameters for the dashboard backend of the ticket escalation overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0110-TicketEscalation'} = {
  'Attributes' =>
  'TicketEscalationTimeOlderMinutes=1;SortBy=EscalationTime;OrderBy=Down;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All escalated tickets',
  'Filter' => 'All',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'rw',
  'Time' => 'EscalationTime',
  'Title' => 'Escalated Tickets'
};
```

DashboardBackend###0120-TicketNew

Parameters for the dashboard backend of the new tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0120-TicketNew'} = {
  'Attributes' => 'StateType=new;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
  }
};
```

```

'EscalationUpdateTime' => '1',
'Lock' => '1',
'Owner' => '1',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '1',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '1',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
},
'Description' => 'All new tickets, these tickets have not been worked on yet',
'Filter' => 'All',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
'Permission' => 'rw',
'Time' => 'Age',
'Title' => 'New Tickets'
};

```

DashboardBackend###0130-TicketOpen

Parameters for the dashboard backend of the open tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```

$self->{'DashboardBackend'}->{'0130-TicketOpen'} = {
  'Attributes' => 'StateType=open;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All open tickets, these tickets have already been worked on, but
  need a response',
  'Filter' => 'All',
  'Group' => '',
  'Limit' => '10',

```

```
'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
'Permission' => 'rw',
'Time' => 'Age',
'Title' => 'Open Tickets / Need to be answered'
};
```

DashboardBackend###0250-TicketStats

Parameters for the dashboard backend of the ticket stats of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0250-TicketStats'} = {
'Block' => 'ContentSmall',
'CacheTTLLocal' => '30',
'Changed' => '1',
'Closed' => '1',
'Default' => '1',
'Group' => '',
'Module' => 'Kernel::Output::HTML::Dashboard::TicketStatsGeneric',
'Permission' => 'rw',
'Title' => '7 Day Stats'
};
```

DashboardBackend###0260-TicketCalendar

Parameters for the dashboard backend of the upcoming events widget of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0260-TicketCalendar'} = {
'Block' => 'ContentSmall',
'CacheTTL' => '2',
'Default' => '1',
'Group' => '',
'Limit' => '6',
'Module' => 'Kernel::Output::HTML::Dashboard::Calendar',
'OwnerOnly' => '',
'Permission' => 'rw',
'Title' => 'Upcoming Events'
};
```

DashboardBackend###0270-TicketQueueOverview

Parameters for the dashboard backend of the queue overview widget of the agent interface. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "QueuePermissionGroup" is not mandatory, queues are only listed if they belong to this permission group if you enable it. "States" is a list of states, the key is the sort order of the state in the widget. "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0270-TicketQueueOverview'} = {
'Block' => 'ContentLarge',
'CacheTTLLocal' => '0.5',
'Default' => '1',
'Description' => 'Provides a matrix overview of the tickets per state per queue',
'Group' => '',
'Module' => 'Kernel::Output::HTML::Dashboard::TicketQueueOverview',
'Permission' => 'rw',
```

```
'QueuePermissionGroup' => '',
'Sort' => 'SortBy=Age;OrderBy=Up',
'States' => {
  '1' => 'new',
  '4' => 'open',
  '6' => 'pending reminder'
},
'Title' => 'Ticket Queue Overview'
};
```

DashboardBackend###0280-DashboardEventsTicketCalendar

Parameters for the dashboard backend of the ticket events calendar of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```
$Self->{'DashboardBackend'}->{'0280-DashboardEventsTicketCalendar'} = {
  'Block' => 'ContentLarge',
  'CacheTTL' => '0',
  'Default' => '0',
  'Group' => '',
  'Module' => 'Kernel::Output::HTML::Dashboard::EventsTicketCalendar',
  'Title' => 'Events Ticket Calendar'
};
```

AgentCustomerInformationCenter::Backend###0100-CIC-TicketPendingReminder

Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::Backend'}->{'0100-CIC-TicketPendingReminder'}
= {
  'Attributes' => 'TicketPendingTimeOlderMinutes=1;StateType=pending
reminder;SortBy=PendingTime;OrderBy=Down;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
```



```

    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All tickets with a reminder set where the reminder date has been
reached',
  'Filter' => 'Locked',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'ro',
  'Time' => 'UntilTime',
  'Title' => 'Reminder Tickets'
};

```

AgentCustomerInformationCenter::Backend###0110-CIC-TicketEscalation

Parameters for the dashboard backend of the ticket escalation overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```

$self->{'AgentCustomerInformationCenter::Backend'}->{'0110-CIC-TicketEscalation'} = {
  'Attributes' =>
  'TicketEscalationTimeOlderMinutes=1;SortBy=EscalationTime;OrderBy=Down;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All escalated tickets',
  'Filter' => 'All',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'ro',
  'Time' => 'EscalationTime',
  'Title' => 'Escalated Tickets'
};

```

AgentCustomerInformationCenter::Backend###0120-CIC-TicketNew

Parameters for the dashboard backend of the new tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the

access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::Backend'}->{'0120-CIC-TicketNew'} = {
  'Attributes' => 'StateType=new;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '1',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All new tickets, these tickets have not been worked on yet',
  'Filter' => 'All',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
  'Permission' => 'ro',
  'Time' => 'Age',
  'Title' => 'New Tickets'
};
```

AgentCustomerInformationCenter::Backend###0130-CIC-TicketOpen

Parameters for the dashboard backend of the open tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'AgentCustomerInformationCenter::Backend'}->{'0130-CIC-TicketOpen'} = {
  'Attributes' => 'StateType=open;',
  'Block' => 'ContentLarge',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'DefaultColumns' => {
    'Age' => '2',
    'Changed' => '1',
    'Created' => '1',
    'CustomerCompanyName' => '1',
```

```

'CustomerID' => '1',
'CustomerName' => '1',
'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '1',
'Owner' => '1',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '1',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '1',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
},
'Description' => 'All open tickets, these tickets have already been worked on, but
need a response',
'Filter' => 'All',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::Dashboard::TicketGeneric',
'Permission' => 'ro',
'Time' => 'Age',
'Title' => 'Open Tickets / Need to be answered'
};

```

AgentCustomerInformationCenter::Backend###0500-CIC-CustomerIDStatus

Parameters for the dashboard backend of the customer id status widget of the agent interface . "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.

Thamani chaguo-msingi:

```

$self->{'AgentCustomerInformationCenter::Backend'}->{'0500-CIC-CustomerIDStatus'} = {
  'Attributes' => '',
  'Block' => 'ContentSmall',
  'CacheTTLLocal' => '0.5',
  'Default' => '1',
  'Description' => 'Company Status',
  'Group' => '',
  'Module' => 'Kernel::Output::HTML::Dashboard::CustomerIDStatus',
  'Permission' => 'ro',
  'Title' => 'Company Status'
};

```

Ticket → Frontend::Agent::Dashboard::EventsTicketCalendar

DashboardEventsTicketCalendar###CalendarWidth

Defines the calendar width in percent. Default is 95%.

This setting can not be deactivated.

Thamani chaguo-msingi:

```

$self->{'DashboardEventsTicketCalendar'}->{'CalendarWidth'} = '95';

```

DashboardEventsTicketCalendar###Queues

Defines queues that's tickets are used for displaying as calendar events.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DashboardEventsTicketCalendar'}->{'Queues'} = [
  'Raw'
];
```

DashboardEventsTicketCalendar::DynamicFieldStartTime

Define dynamic field name for start time. This field has to be manually added to the system as Ticket: "Date / Time" and must be activated in ticket creation screens and/or in any other ticket action screens.

Thamani chaguo-msingi:

```
$Self->{'DashboardEventsTicketCalendar::DynamicFieldStartTime'} =
'TicketCalendarStartTime';
```

DashboardEventsTicketCalendar::DynamicFieldEndTime

Define dynamic field name for end time. This field has to be manually added to the system as Ticket: "Date / Time" and must be activated in ticket creation screens and/or in any other ticket action screens.

Thamani chaguo-msingi:

```
$Self->{'DashboardEventsTicketCalendar::DynamicFieldEndTime'} =
'TicketCalendarEndTime';
```

DashboardEventsTicketCalendar::DynamicFieldsForEvents

Defines the dynamic fields that are used for displaying on calendar events.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DashboardEventsTicketCalendar::DynamicFieldsForEvents'} = [
  'TicketCalendarStartTime',
  'TicketCalendarEndTime'
];
```

DashboardEventsTicketCalendar::TicketFieldsForEvents

Defines the ticket fields that are going to be displayed calendar events. The "Key" defines the field or ticket attribute and the "Content" defines the display name.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'DashboardEventsTicketCalendar::TicketFieldsForEvents'} = {
  'CustomerID' => 'Customer ID',
  'CustomerUserID' => 'Customer user',
  'Priority' => 'Priority',
  'Queue' => 'Queue',
  'SLA' => 'SLA',
  'Service' => 'Service',
  'State' => 'State',
  'Title' => 'Title',
  'Type' => 'Type'
};
```

Ticket → Frontend::Agent::Dashboard::TicketFilters

OnlyValuesOnTicket

Defines if the values for filters should be retrieved from all available tickets. If set to "Yes", only values which are actually used in any ticket will be available for filtering. Please note: The list of customers will always be retrieved like this.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'OnlyValuesOnTicket'} = '1';
```

Ticket → Frontend::Agent::LinkObject

LinkObject::ComplexTable::SettingsVisibility###Ticket

Define Actions where a settings button is available in the linked objects widget (LinkObject::ViewMode = "complex"). Please note that these Actions must have registered the following JS and CSS files: Core.AllocationList.css, Core.UI.AllocationList.js, Core.UI.Table.Sort.js, Core.Agent.TableFilters.js.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::ComplexTable::SettingsVisibility'}->{'Ticket'} = [
  'AgentTicketZoom'
];
```

LinkObject::ComplexTable###Ticket

Define which columns are shown in the linked tickets widget (LinkObject::ViewMode = "complex"). Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'LinkObject::ComplexTable'}->{'Ticket'} = {
  'DefaultColumns' => {
    'Age' => '1',
    'Changed' => '1',
    'Created' => '2',
    'CustomerID' => '1',
    'CustomerName' => '1',
    'CustomerUserID' => '1',
    'EscalationResponseTime' => '1',
    'EscalationSolutionTime' => '1',
    'EscalationTime' => '1',
    'EscalationUpdateTime' => '1',
    'Lock' => '1',
    'Owner' => '1',
    'PendingTime' => '1',
    'Priority' => '1',
    'Queue' => '2',
    'Responsible' => '1',
    'SLA' => '1',
    'Service' => '1',
    'State' => '2',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Module' => 'Kernel::Output::HTML::LinkObject::Ticket.pm',
  'Priority' => {
    'Age' => '110',
    'Changed' => '120',
    'Created' => '310',
    'CustomerID' => '240',
    'CustomerName' => '250',
    'CustomerUserID' => '260',
    'EscalationResponseTime' => '160',
    'EscalationSolutionTime' => '150',
    'EscalationTime' => '140',
    'EscalationUpdateTime' => '170',
    'Lock' => '200',
    'Owner' => '220',
    'PendingTime' => '130',
    'Priority' => '300',
    'Queue' => '210',
    'Responsible' => '230',
    'SLA' => '290',
    'Service' => '280',
```

```
'State' => '190',
'TicketNumber' => '100',
'Title' => '180',
'Type' => '270'
}
};
```

Ticket → Frontend::Agent::ModuleMetaHead

Frontend::HeaderMetaModule###2-TicketSearch

Module to generate html OpenSearch profile for short ticket search in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::HeaderMetaModule'}->{'2-TicketSearch'} = {
  'Action' => 'AgentTicketSearch',
  'Module' => 'Kernel::Output::HTML::HeaderMeta::AgentTicketSearch'
};
```

Ticket → Frontend::Agent::ModuleNotify

Frontend::NotifyModule###5000-Ticket::TicketEscalation

Module to show notifications and escalations (ShownMax: max. shown escalations, EscalationInMinutes: Show ticket which will escalation in, CacheTime: Cache of calculated escalations in seconds).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::NotifyModule'}->{'5000-Ticket::TicketEscalation'} = {
  'CacheTime' => '40',
  'EscalationInMinutes' => '120',
  'Module' => 'Kernel::Output::HTML::Notification::AgentTicketEscalation',
  'ShownMax' => '25'
};
```

Ticket → Frontend::Agent::ModuleRegistration

Frontend::Module###AgentTicketQueue

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketQueue'} = {
  'Description' => 'Overview of all open Tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AgentTicketQueue.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Overview.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'o',
      'Block' => '',
      'Description' => 'Overview of all open Tickets.',
      'Link' => 'Action=AgentTicketQueue',
      'LinkOption' => '',
      'Name' => 'Queue view',
      'NavBar' => 'Ticket',
      'Prio' => '100',
    }
  ]
};
```

```

    'Type' => ''
  },
  {
    'AccessKey' => 't',
    'Block' => 'ItemArea',
    'Description' => '',
    'Link' => 'Action=AgentTicketQueue',
    'LinkOption' => '',
    'Name' => 'Tickets',
    'NavBar' => 'Ticket',
    'Prio' => '200',
    'Type' => 'Menu'
  }
],
'NavBarName' => 'Ticket',
'Title' => 'QueueView'
};

```

Frontend::Module###AgentTicketService

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketService'} = {
  'Description' => 'Overview of all open Tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AgentTicketService.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Overview.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => '0',
      'Block' => '',
      'Description' => 'Overview of all open Tickets.',
      'Link' => 'Action=AgentTicketService',
      'LinkOption' => '',
      'Name' => 'Service view',
      'NavBar' => 'Ticket',
      'Prio' => '105',
      'Type' => ''
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'ServiceView'
};

```

Frontend::Module###AgentTicketPhone

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketPhone'} = {
  'Description' => 'Create new phone ticket.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketPhone.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'n',

```

```

    'Block' => '',
    'Description' => 'Create new phone ticket (inbound).',
    'Link' => 'Action=AgentTicketPhone',
    'LinkOption' => '',
    'Name' => 'New phone ticket',
    'NavBar' => 'Ticket',
    'Prio' => '200',
    'Type' => ''
  }
],
'NavBarName' => 'Ticket',
'Title' => 'New phone ticket'
};

```

Frontend::Module###AgentTicketPhoneOutbound

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketPhoneOutbound'} = {
  'Description' => 'Phone Call.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketPhoneCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Phone-Ticket'
};

```

Frontend::Module###AgentTicketPhoneInbound

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketPhoneInbound'} = {
  'Description' => 'Incoming Phone Call.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketPhoneCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Phone-Ticket'
};

```

Frontend::Module###AgentTicketEmail

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketEmail'} = {
  'Description' => 'Create new email ticket.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketEmail.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'm',
      'Block' => '',
      'Description' => 'Create new email ticket and send this out (outbound).',
      'Link' => 'Action=AgentTicketEmail',
      'LinkOption' => '',
      'Name' => 'New email ticket',

```



```

    'NavBar' => 'Ticket',
    'Prio' => '210',
    'Type' => ''
  }
],
'NavBarName' => 'Ticket',
'Title' => 'New email ticket'
};

```

Frontend::Module###AgentTicketSearch

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketSearch'} = {
  'Description' => 'Search Ticket.',
  'Loader' => {
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Overview.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 's',
      'Block' => '',
      'Description' => 'Search Tickets.',
      'Link' => 'Action=AgentTicketSearch',
      'LinkOption' => 'onclick="window.setTimeout(function()
{Core.Agent.Search.OpenSearchDialog(\'AgentTicketSearch\');}, 0); return false;"',
      'Name' => 'Search',
      'NavBar' => 'Ticket',
      'Prio' => '300',
      'Type' => ''
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Search'
};

```

Frontend::Module###AgentTicketLockedView

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketLockedView'} = {
  'Description' => 'Locked Tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AgentTicketQueue.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Locked Tickets'
};

```

Frontend::Module###AgentTicketResponsibleView

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketResponsibleView'} = {
  'Description' => 'Responsible Tickets.',
  'Loader' => {
    'CSS' => [

```

```

    'Core.AllocationList.css'
  ],
  'JavaScript' => [
    'Core.UI.AllocationList.js',
    'Core.Agent.TableFilters.js',
    'Core.Agent.Overview.js'
  ]
},
'NavBarName' => 'Ticket',
'Title' => 'Responsible Tickets'
};

```

Frontend::Module###AgentTicketWatchView

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketWatchView'} = {
  'Description' => 'Watched Tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AgentTicketQueue.css',
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Watched Tickets'
};

```

Frontend::Module###AgentCustomerSearch

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentCustomerSearch'} = {
  'Description' => 'Agent Customer Search.',
  'NavBarName' => 'Ticket',
  'Title' => 'Agent Customer Search'
};

```

Frontend::Module###AgentUserSearch

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentUserSearch'} = {
  'Description' => 'Agent User Search.',
  'NavBarName' => 'Ticket',
  'Title' => 'Agent User Search'
};

```

Frontend::Module###AgentTicketStatusView

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketStatusView'} = {
  'Description' => 'Overview of all open tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Overview.js'
    ]
  }
};

```

```

    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'v',
      'Block' => '',
      'Description' => 'Overview of all open Tickets.',
      'Link' => 'Action=AgentTicketStatusView',
      'LinkOption' => '',
      'Name' => 'Status view',
      'NavBar' => 'Ticket',
      'Prio' => '110',
      'Type' => ''
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Status view'
};

```

Frontend::Module###AgentTicketEscalationView

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketEscalationView'} = {
  'Description' => 'Overview of all escalated tickets.',
  'Loader' => {
    'CSS' => [
      'Core.AllocationList.css'
    ],
    'JavaScript' => [
      'Core.UI.AllocationList.js',
      'Core.Agent.TableFilters.js',
      'Core.Agent.Overview.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'e',
      'Block' => '',
      'Description' => 'Overview Escalated Tickets.',
      'Link' => 'Action=AgentTicketEscalationView',
      'LinkOption' => '',
      'Name' => 'Escalation view',
      'NavBar' => 'Ticket',
      'Prio' => '120',
      'Type' => ''
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Escalation view'
};

```

Frontend::Module###AgentZoom

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentZoom'} = {
  'Description' => 'Compat module for AgentZoom to AgentTicketZoom.',
  'NavBarName' => 'Ticket',
  'Title' => ''
};

```

Frontend::Module###AgentTicketZoom

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketZoom'} = {
  'Description' => 'Ticket Zoom.',

```

```
'Loader' => {
  'CSS' => [
    'Core.Agent.TicketProcess.css',
    'Core.Agent.TicketMenuModuleCluster.css',
    'Core.AllocationList.css'
  ],
  'JavaScript' => [
    'thirdparty/jquery-tablesorter-2.0.5/jquery.tablesorter.js',
    'Core.Agent.TicketZoom.js',
    'Core.UI.AllocationList.js',
    'Core.UI.Table.Sort.js',
    'Core.Agent.TableFilters.js',
    'Core.Agent.LinkObject.js'
  ]
},
'NavBarName' => 'Ticket',
'Title' => 'Zoom'
};
```

Frontend::Module###AgentTicketAttachment

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketAttachment'} = {
  'Description' => 'To download attachments.',
  'NavBarName' => 'Ticket',
  'Title' => ''
};
```

Frontend::Module###AgentTicketPlain

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketPlain'} = {
  'Description' => 'Ticket plain view of an email.',
  'NavBarName' => 'Ticket',
  'Title' => 'Plain'
};
```

Frontend::Module###AgentTicketNote

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketNote'} = {
  'Description' => 'Ticket Note.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketActionCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Note'
};
```

Frontend::Module###AgentTicketMerge

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketMerge'} = {
  'Description' => 'Ticket Merge.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketMerge.js'
    ]
  },
};
```

```
'NavBarName' => 'Ticket',  
'Title' => 'Merge'  
};
```

Frontend::Module###AgentTicketPending

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketPending'} = {  
  'Description' => 'Ticket Pending.',  
  'Loader' => {  
    'JavaScript' => [  
      'Core.Agent.TicketAction.js',  
      'Core.Agent.TicketActionCommon.js'  
    ]  
  },  
  'NavBarName' => 'Ticket',  
  'Title' => 'Pending'  
};
```

Frontend::Module###AgentTicketWatcher

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketWatcher'} = {  
  'Description' => 'A TicketWatcher Module.',  
  'NavBarName' => 'Ticket-Watcher',  
  'Title' => 'Ticket Watcher'  
};
```

Frontend::Module###AgentTicketPriority

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketPriority'} = {  
  'Description' => 'Ticket Priority.',  
  'Loader' => {  
    'JavaScript' => [  
      'Core.Agent.TicketAction.js',  
      'Core.Agent.TicketActionCommon.js'  
    ]  
  },  
  'NavBarName' => 'Ticket',  
  'Title' => 'Priority'  
};
```

Frontend::Module###AgentTicketLock

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketLock'} = {  
  'Description' => 'Ticket Lock.',  
  'NavBarName' => 'Ticket',  
  'Title' => 'Lock'  
};
```

Frontend::Module###AgentTicketMove

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Module'}->{'AgentTicketMove'} = {  
  'Description' => 'Ticket Move.',  
  'Loader' => {  
    'JavaScript' => [  

```

```

    'Core.Agent.TicketAction.js',
    'Core.Agent.TicketMove.js'
  ]
},
'NavBarName' => 'Ticket',
'Title' => 'Move'
};

```

Frontend::Module###AgentTicketHistory

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketHistory'} = {
  'Description' => 'Ticket History.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketHistory.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'History'
};

```

Frontend::Module###AgentTicketOwner

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketOwner'} = {
  'Description' => 'Ticket Owner.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketActionCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Owner'
};

```

Frontend::Module###AgentTicketResponsible

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketResponsible'} = {
  'Description' => 'Ticket Responsible.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketActionCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Responsible'
};

```

Frontend::Module###AgentTicketCompose

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketCompose'} = {
  'Description' => 'Ticket Compose email Answer.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',

```

```

    'Core.Agent.TicketCompose.js'
  ]
},
'NavBarName' => 'Ticket',
'Title' => 'Compose'
};

```

Frontend::Module###AgentTicketBounce

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketBounce'} = {
  'Description' => 'Ticket Compose Bounce Email.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketBounce.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Bounce'
};

```

Frontend::Module###AgentTicketForward

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketForward'} = {
  'Description' => 'Ticket Forward Email.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketForward.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Forward'
};

```

Frontend::Module###AgentTicketEmailOutbound

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketEmailOutbound'} = {
  'Description' => 'Ticket Outbound Email.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.CustomerSearch.js',
      'Core.Agent.CustomerSearchAutoComplete.js',
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketEmailOutbound.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Email Outbound'
};

```

Frontend::Module###AgentTicketCustomer

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketCustomer'} = {
  'Description' => 'Ticket Customer.',
  'Loader' => {
    'JavaScript' => [

```

```

    'Core.Agent.CustomerSearch.js',
    'Core.Agent.CustomerSearchAutoComplete.js',
    'Core.Agent.TicketAction.js'
  ]
},
'NavBarName' => 'Ticket',
'Title' => 'Customer'
};

```

Frontend::Module###AgentTicketClose

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketClose'} = {
  'Description' => 'Ticket Close.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketActionCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Close'
};

```

Frontend::Module###AgentTicketFreeText

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketFreeText'} = {
  'Description' => 'Ticket FreeText.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketActionCommon.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Free Fields'
};

```

Frontend::Module###AgentTicketPrint

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketPrint'} = {
  'Description' => 'Ticket Print.',
  'NavBarName' => 'Ticket',
  'Title' => 'Print'
};

```

Frontend::Module###AgentTicketBulk

Frontend module registration for the agent interface.

Thamani chaguo-msingi:

```

$self->{'Frontend::Module'}->{'AgentTicketBulk'} = {
  'Description' => 'Ticket bulk module.',
  'Loader' => {
    'JavaScript' => [
      'Core.Agent.TicketAction.js',
      'Core.Agent.TicketBulk.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Bulk Action'
};

```


Ticket → Frontend::Agent::Preferences

PreferencesGroups###CustomQueue

Parameters for the CustomQueue object in the preference view of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'CustomQueue'} = {
  'Active' => '1',
  'Column' => 'Notification Settings',
  'Desc' => 'Your queue selection of your preferred queues. You also get notified about those queues via email if enabled.',
  'Key' => '',
  'Label' => 'My Queues',
  'Module' => 'Kernel::Output::HTML::Preferences::CustomQueue',
  'Permission' => 'ro',
  'Prio' => '1000'
};
```

PreferencesGroups###CustomService

Parameters for the CustomService object in the preference view of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'CustomService'} = {
  'Active' => '1',
  'Column' => 'Notification Settings',
  'Desc' => 'Your service selection of your preferred services. You also get notified about those services via email if enabled.',
  'Key' => '',
  'Label' => 'My Services',
  'Module' => 'Kernel::Output::HTML::Preferences::CustomService',
  'Prio' => '1000'
};
```

PreferencesGroups###RefreshTime

Parameters for the RefreshTime object in the preference view of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'RefreshTime'} = {
  'Active' => '1',
  'Column' => 'Other Settings',
  'Data' => {
    '0' => 'off',
    '10' => '10 minutes',
    '15' => '15 minutes',
    '2' => ' 2 minutes',
    '5' => ' 5 minutes',
    '7' => ' 7 minutes'
  },
  'DataSelected' => '0',
  'Desc' => 'If enabled, the different overviews (Dashboard, LockedView, QueueView) will automatically refresh after the specified time.',
  'Key' => 'After',
  'Label' => 'Overview Refresh Time',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserRefreshTime',
  'Prio' => '2000'
};
```

PreferencesGroups###TicketOverviewSmallPageShown

Parameters for the pages (in which the tickets are shown) of the small ticket overview.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'TicketOverviewSmallPageShown'} = {
  'Active' => '0',
  'Column' => 'Other Settings',
  'Data' => {
```

```
'10' => '10',
'15' => '15',
'20' => '20',
'25' => '25',
'30' => '30',
'35' => '35'
},
'DataSelected' => '25',
'Key' => 'Ticket limit per page for Ticket Overview "Small"',
'Label' => 'Ticket Overview "Small" Limit',
'Module' => 'Kernel::Output::HTML::Preferences::Generic',
'PrefKey' => 'UserTicketOverviewSmallPageShown',
'Prio' => '8000'
};
```

PreferencesGroups###TicketOverviewFilterSettings

Parameters for the column filters of the small ticket overview.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'TicketOverviewFilterSettings'} = {
'Active' => '0',
'Column' => 'Other Settings',
'Key' => 'Column ticket filters for Ticket Overviews type "Small".',
'Label' => 'Enabled filters.',
'Module' => 'Kernel::Output::HTML::Preferences::ColumnFilters',
'PrefKey' => 'UserFilterColumnsEnabled',
'Prio' => '8100'
};
```

PreferencesGroups###TicketOverviewMediumPageShown

Parameters for the pages (in which the tickets are shown) of the medium ticket overview.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'TicketOverviewMediumPageShown'} = {
'Active' => '0',
'Column' => 'Other Settings',
'Data' => {
'10' => '10',
'15' => '15',
'20' => '20',
'25' => '25',
'30' => '30',
'35' => '35'
},
'DataSelected' => '20',
'Key' => 'Ticket limit per page for Ticket Overview "Medium"',
'Label' => 'Ticket Overview "Medium" Limit',
'Module' => 'Kernel::Output::HTML::Preferences::Generic',
'PrefKey' => 'UserTicketOverviewMediumPageShown',
'Prio' => '8100'
};
```

PreferencesGroups###TicketOverviewPreviewPageShown

Parameters for the pages (in which the tickets are shown) of the ticket preview overview.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'TicketOverviewPreviewPageShown'} = {
'Active' => '0',
'Column' => 'Other Settings',
'Data' => {
'10' => '10',
'15' => '15',
'20' => '20',
'25' => '25',
'30' => '30',

```

```
'35' => '35'
},
'DataSelected' => '15',
'Key' => 'Ticket limit per page for Ticket Overview "Preview"',
'Label' => 'Ticket Overview "Preview" Limit',
'Module' => 'Kernel::Output::HTML::Preferences::Generic',
'PrefKey' => 'UserTicketOverviewPreviewPageShown',
'Prio' => '8200'
};
```

PreferencesGroups###CreateNextMask

Parameters for the CreateNextMask object in the preference view of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'CreateNextMask'} = {
  'Active' => '1',
  'Column' => 'Other Settings',
  'Data' => {
    '0' => 'CreateTicket',
    'AgentTicketZoom' => 'TicketZoom'
  },
  'DataSelected' => '',
  'Desc' => 'Configure which screen should be shown after a new ticket has been created.',
  'Key' => 'Screen',
  'Label' => 'Screen after new ticket',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserCreateNextMask',
  'Prio' => '3000'
};
```

PreferencesGroups###NotificationEvent

Transport selection for ticket notifications.

Thamani chaguo-msingi:

```
$Self->{'PreferencesGroups'}->{'NotificationEvent'} = {
  'Active' => '1',
  'Column' => 'Notification Settings',
  'Desc' => 'Choose for which kind of ticket changes you want to receive notifications.',
  'Label' => 'Ticket notifications',
  'Module' => 'Kernel::Output::HTML::Preferences::NotificationEvent',
  'PrefKey' => 'AdminNotificationEventTransport',
  'Prio' => '8000'
};
```

Ticket → Frontend::Agent::SearchRouter

Frontend::Search###AgentCustomerInformationCenter

Search backend router.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Search'}->{'AgentCustomerInformationCenter'} = {
  '^AgentCustomerInformationCenter' => 'Action=AgentCustomerInformationCenterSearch'
};
```

Frontend::Search::JavaScript###AgentCustomerInformationCenter

JavaScript function for the search frontend.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Search::JavaScript'}->{'AgentCustomerInformationCenter'} = {
  '^AgentCustomerInformationCenter' =>
  'Core.Agent.CustomerInformationCenterSearch.OpenSearchDialog()'
};
```

Frontend::Search###Ticket

Search backend router.

Thamani chaguo-msingi:

```
$Self->{'Frontend::Search'}->{'Ticket'} = {
  '^AgentTicket' => 'Action=AgentTicketSearch;Subaction=AJAX'
};
```

Ticket → Frontend::Agent::Ticket::ArticleAttachmentModule

Ticket::Frontend::ArticleAttachmentModule###1-Download

Shows a link to download article attachments in the zoom view of the article in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleAttachmentModule'}->{'1-Download'} = {
  'Module' => 'Kernel::Output::HTML::ArticleAttachment::Download'
};
```

Ticket::Frontend::ArticleAttachmentModule###2-HTML-Viewer

Shows a link to access article attachments via a html online viewer in the zoom view of the article in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleAttachmentModule'}->{'2-HTML-Viewer'} = {
  'Module' => 'Kernel::Output::HTML::ArticleAttachment::HTMLViewer'
};
```

Ticket → Frontend::Agent::Ticket::ArticleComposeModule

Ticket::Frontend::ArticleComposeModule###1-EmailSecurity

Module to define the email security options to use (PGP or S/MIME).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleComposeModule'}->{'1-EmailSecurity'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCompose::Security',
  'ParamType' => 'Single'
};
```

Ticket::Frontend::ArticleComposeModule###2-SignEmail

Module to compose signed messages (PGP or S/MIME).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleComposeModule'}->{'2-SignEmail'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCompose::Sign',
  'ParamType' => 'Single'
};
```

Ticket::Frontend::ArticleComposeModule###3-CryptEmail

Module to encrypt composed messages (PGP or S/MIME).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleComposeModule'}->{'3-CryptEmail'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCompose::Crypt',
  'ParamType' => 'Multiple'
};
```

Ticket → Frontend::Agent::Ticket::ArticleViewModule

Ticket::Frontend::ArticleViewModule###1-PGP

Agent interface article notification module to check PGP.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleViewModule'}->{'1-PGP'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCheck::PGP'
};
```

Ticket::Frontend::ArticleViewModule###1-SMIME

Agent interface module to check incoming emails in the Ticket-Zoom-View if the S/MIME-key is available and true.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticleViewModule'}->{'1-SMIME'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCheck::SMIME'
};
```

Ticket → Frontend::Agent::Ticket::ArticleViewModulePre

Ticket::Frontend::ArticlePreViewModule###1-PGP

Agent interface article notification module to check PGP.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticlePreViewModule'}->{'1-PGP'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCheck::PGP'
};
```

Ticket::Frontend::ArticlePreViewModule###2-SMIME

Agent interface article notification module to check S/MIME.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ArticlePreViewModule'}->{'2-SMIME'} = {
  'Module' => 'Kernel::Output::HTML::ArticleCheck::SMIME'
};
```

Ticket → Frontend::Agent::Ticket::MenuModule

Ticket::Frontend::MenuModule###000-Back

Shows a link in the menu to go back in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'000-Back'} = {
  'Action' => '',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Go back',
  'Link' => "[% Env("LastScreenOverview") %];TicketID=[% Data.TicketID | html %]",
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Back',
  'PopupType' => '',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###100-Lock

Shows a link in the menu to lock/unlock tickets in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'100-Lock'} = {
  'Action' => 'AgentTicketLock',
  'ClusterName' => 'Miscellaneous',
  'ClusterPriority' => '800',
  'Description' => 'Lock / unlock this ticket',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Lock',
  'Name' => 'Lock',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###200-History

Shows a link in the menu to access the history of a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'200-History'} = {
  'Action' => 'AgentTicketHistory',
  'ClusterName' => 'Miscellaneous',
  'ClusterPriority' => '800',
  'Description' => 'Show the history for this ticket',
  'Link' => 'Action=AgentTicketHistory;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'History',
  'PopupType' => 'TicketHistory',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###210-Print

Shows a link in the menu to print a ticket or an article in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'210-Print'} = {
  'Action' => 'AgentTicketPrint',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Print this ticket',
};
```

```
'Link' => 'Action=AgentTicketPrint;TicketID=[% Data.TicketID | html %]',
'LinkParam' => 'target="print"',
'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
'Name' => 'Print',
'PopupType' => 'TicketAction',
'Target' => ''
};
```

Ticket::Frontend::MenuModule###300-Priority

Shows a link in the menu to see the priority of a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'300-Priority'} = {
  'Action' => 'AgentTicketPriority',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Change the priority for this ticket',
  'Link' => 'Action=AgentTicketPriority;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Priority',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###310-FreeText

Shows a link in the menu to add a free text field in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'310-FreeText'} = {
  'Action' => 'AgentTicketFreeText',
  'ClusterName' => 'Miscellaneous',
  'ClusterPriority' => '800',
  'Description' => 'Change the free fields for this ticket',
  'Link' => 'Action=AgentTicketFreeText;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Free Fields',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###320-Link

Shows a link in the menu that allows linking a ticket with another object in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'320-Link'} = {
  'Action' => 'AgentLinkObject',
  'ClusterName' => 'Miscellaneous',
  'ClusterPriority' => '800',
  'Description' => 'Link this ticket to other objects',
  'Link' => 'Action=AgentLinkObject;SourceObject=Ticket;SourceKey=[% Data.TicketID |
html %]',
};
```



```
'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
'Name' => 'Link',
'PopupType' => 'TicketAction',
'Target' => ''
};
```

Ticket::Frontend::MenuModule###400-Owner

Shows a link in the menu to see the owner of a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'400-Owner'} = {
  'Action' => 'AgentTicketOwner',
  'ClusterName' => 'People',
  'ClusterPriority' => '430',
  'Description' => 'Change the owner for this ticket',
  'Link' => 'Action=AgentTicketOwner;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Owner',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###410-Responsible

Shows a link in the menu to see the responsible agent of a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'410-Responsible'} = {
  'Action' => 'AgentTicketResponsible',
  'ClusterName' => 'People',
  'ClusterPriority' => '430',
  'Description' => 'Change the responsible for this ticket',
  'Link' => 'Action=AgentTicketResponsible;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Responsible',
  'Name' => 'Responsible',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###420-Customer

Shows a link in the menu to see the customer who requested the ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'420-Customer'} = {
  'Action' => 'AgentTicketCustomer',
  'ClusterName' => 'People',
  'ClusterPriority' => '430',
  'Description' => 'Change the customer for this ticket',
  'Link' => 'Action=AgentTicketCustomer;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
};
```



```
'Name' => 'Customer',
'PopupType' => 'TicketAction',
'Target' => ''
};
```

Ticket::Frontend::MenuModule###420-Note

Shows a link in the menu to add a note in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'420-Note'} = {
  'Action' => 'AgentTicketNote',
  'ClusterName' => 'Communication',
  'ClusterPriority' => '435',
  'Description' => 'Add a note to this ticket',
  'Link' => 'Action=AgentTicketNote;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Note',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###425-Phone Call Outbound

Shows a link in the menu to add a note in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'425-Phone Call Outbound'} = {
  'Action' => 'AgentTicketPhoneOutbound',
  'ClusterName' => 'Communication',
  'ClusterPriority' => '435',
  'Description' => 'Add an outbound phone call to this ticket',
  'Link' => 'Action=AgentTicketPhoneOutbound;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Phone Call Outbound',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###426-Phone Call Inbound

Shows a link in the menu to add a note in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'426-Phone Call Inbound'} = {
  'Action' => 'AgentTicketPhoneInbound',
  'ClusterName' => 'Communication',
  'ClusterPriority' => '435',
  'Description' => 'Add an inbound phone call to this ticket',
  'Link' => 'Action=AgentTicketPhoneInbound;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Phone Call Inbound',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###427-Email Outbound

Shows a link in the menu to send an outbound email in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'427-Email Outbound'} = {
  'Action' => 'AgentTicketEmailOutbound',
  'ClusterName' => 'Communication',
  'ClusterPriority' => '435',
  'Description' => 'Send new outgoing mail from this ticket',
  'Link' => 'Action=AgentTicketEmailOutbound;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'E-Mail Outbound',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###430-Merge

Shows a link in the menu that allows merging tickets in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'430-Merge'} = {
  'Action' => 'AgentTicketMerge',
  'ClusterName' => 'Miscellaneous',
  'ClusterPriority' => '800',
  'Description' => 'Merge this ticket and all articles into a another ticket',
  'Link' => 'Action=AgentTicketMerge;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Merge',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###440-Pending

Shows a link in the menu to set a ticket as pending in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'440-Pending'} = {
  'Action' => 'AgentTicketPending',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Set this ticket to pending',
  'Link' => 'Action=AgentTicketPending;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Pending',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###448-Watch

Shows a link in the menu for subscribing / unsubscribing from a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like

"rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'448-Watch'} = {
  'Action' => 'AgentTicketWatcher',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Watch this ticket',
  'Module' => 'Kernel::Output::HTML::TicketMenu::TicketWatcher',
  'Name' => 'Watch',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###450-Close

Shows a link in the menu to close a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'450-Close'} = {
  'Action' => 'AgentTicketClose',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Close this ticket',
  'Link' => 'Action=AgentTicketClose;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Close',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###460-Delete

Shows a link in the menu to delete a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'460-Delete'} = {
  'Action' => 'AgentTicketMove',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Delete this ticket',
  'Link' => 'Action=AgentTicketMove;TicketID=[% Data.TicketID %];DestQueue=Delete',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Delete',
  'PopupType' => '',
  'Target' => ''
};
```

Ticket::Frontend::MenuModule###470-Junk

Shows a link to set a ticket as junk in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2". To cluster menu items use for Key "ClusterName" and for the Content any name you want to see in the UI. Use "ClusterPriority" to configure the order of a certain cluster within the toolbar.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MenuModule'}->{'470-Junk'} = {
  'Action' => 'AgentTicketMove',
  'ClusterName' => '',
  'ClusterPriority' => '',
  'Description' => 'Mark this ticket as junk!',
  'Link' => 'Action=AgentTicketMove;TicketID=[% Data.TicketID %];DestQueue=Junk',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Spam',
  'PopupType' => '',
  'Target' => ''
};
```

Ticket → Frontend::Agent::Ticket::MenuModulePre

Ticket::Frontend::PreMenuModule###100-Lock

Shows a link in the menu to lock / unlock a ticket in the ticket overviews of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'100-Lock'} = {
  'Action' => 'AgentTicketLock',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Lock',
  'Name' => 'Lock',
  'PopupType' => '',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###200-Zoom

Shows a link in the menu to zoom a ticket in the ticket overviews of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'200-Zoom'} = {
  'Action' => 'AgentTicketZoom',
  'Description' => 'Look into a ticket!',
  'Link' => 'Action=AgentTicketZoom;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Zoom',
  'PopupType' => '',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###210-History

Shows a link in the menu to see the history of a ticket in every ticket overview of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'210-History'} = {
  'Action' => 'AgentTicketHistory',
  'Description' => 'Show the ticket history',
  'Link' => 'Action=AgentTicketHistory;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'History',
  'PopupType' => 'TicketHistory',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###300-Priority

Shows a link in the menu to set the priority of a ticket in every ticket overview of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'300-Priority'} = {
  'Action' => 'AgentTicketPriority',
  'Description' => 'Change the priority for this ticket',
  'Link' => 'Action=AgentTicketPriority;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Priority',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###420-Note

Shows a link in the menu to add a note to a ticket in every ticket overview of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'420-Note'} = {
  'Action' => 'AgentTicketNote',
  'Description' => 'Add a note to this ticket',
  'Link' => 'Action=AgentTicketNote;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Note',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###440-Close

Shows a link in the menu to close a ticket in every ticket overview of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'440-Close'} = {
  'Action' => 'AgentTicketClose',
  'Description' => 'Close this ticket',
  'Link' => 'Action=AgentTicketClose;TicketID=[% Data.TicketID | html %]',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
  'Name' => 'Close',
  'PopupType' => 'TicketAction',
  'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###445-Move

Shows a link in the menu to move a ticket in every ticket overview of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'445-Move'} = {
  'Action' => 'AgentTicketMove',
  'Description' => 'Change queue!',
  'Module' => 'Kernel::Output::HTML::TicketMenu::Move',
  'Name' => 'Move'
};
```

Ticket::Frontend::PreMenuModule###450-Delete

Shows a link in the menu to delete a ticket in every ticket overview of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'450-Delete'} = {
  'Action' => 'AgentTicketMove',
  'Description' => 'Delete this ticket',
  'Link' => 'Action=AgentTicketMove;TicketID=[% Data.TicketID %];DestQueue=Delete',
};
```

```
'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
'Name' => 'Delete',
'PopupType' => '',
'Target' => ''
};
```

Ticket::Frontend::PreMenuModule###460-Junk

Shows a link in the menu to set a ticket as junk in every ticket overview of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PreMenuModule'}->{'460-Junk'} = {
'Action' => 'AgentTicketMove',
'Description' => 'Mark as Spam!',
'Link' => 'Action=AgentTicketMove;TicketID=[% Data.TicketID %];DestQueue=Junk',
'Module' => 'Kernel::Output::HTML::TicketMenu::Generic',
'Name' => 'Spam',
'PopupType' => '',
'Target' => ''
};
```

Ticket → Frontend::Agent::Ticket::OverviewMenuModule

Ticket::Frontend::OverviewMenuModule###001-Sort

Shows a select of ticket attributes to order the queue view ticket list. The possible selections can be configured via 'TicketOverviewMenuSort###SortAttributes'.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::OverviewMenuModule'}->{'001-Sort'} = {
'Module' => 'Kernel::Output::HTML::TicketOverviewMenu::Sort'
};
```

TicketOverviewMenuSort###SortAttributes

Defines from which ticket attributes the agent can select the result order.

Thamani chaguo-msingi:

```
$Self->{'TicketOverviewMenuSort'}->{'SortAttributes'} = {
'Age' => '1',
'Title' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewBounce

Ticket::Frontend::AgentTicketBounce###Permission

Required permissions to use the ticket bounce screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'Permission'} = 'bounce';
```

Ticket::Frontend::AgentTicketBounce###RequiredLock

Defines if a ticket lock is required in the ticket bounce screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketBounce###StateDefault

Defines the default next state of a ticket after being bounced, in the ticket bounce screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'StateDefault'} = 'closed successful';
```

Ticket::Frontend::AgentTicketBounce###StateType

Defines the next state of a ticket after being bounced, in the ticket bounce screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'StateType'} = [
  'open',
  'closed'
];
```

Ticket::Frontend::BounceText

Defines the default ticket bounced notification for customer/sender in the ticket bounce screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::BounceText'} = 'Your email with ticket number
"<OTRS_TICKET>" is bounced to "<OTRS_BOUNCE_TO>". Contact this address for further
information.';
```

Ticket → Frontend::Agent::Ticket::ViewBulk

Ticket::Frontend::AgentTicketBulk###RequiredLock

Automatically lock and set owner to current Agent after selecting for an Bulk Action.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketBulk###TicketType

Sets the ticket type in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'TicketType'} = '1';
```

Ticket::Frontend::AgentTicketBulk###Owner

Sets the ticket owner in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Owner'} = '1';
```

Ticket::Frontend::AgentTicketBulk###Responsible

Sets the responsible agent of the ticket in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Responsible'} = '1';
```


Ticket::Frontend::AgentTicketBulk###State

If a note is added by an agent, sets the state of a ticket in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'State'} = '1';
```

Ticket::Frontend::AgentTicketBulk###StateType

Defines the next state of a ticket after adding a note, in the ticket bulk screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'StateType'} = [
  'open',
  'closed',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketBulk###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket bulk screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketBulk###Priority

Shows the ticket priority options in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Priority'} = '1';
```

Ticket::Frontend::AgentTicketBulk###PriorityDefault

Defines the default ticket priority in the ticket bulk screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketBulk###ArticleTypeDefault

Defines the default type of the note in the ticket bulk screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketBulk###ArticleTypes

Specifies the different note types that will be used in the system.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypes'} = {
  'note-external' => '1',
  'note-internal' => '1',
  'note-report' => '0'
}
```



```
};
```

Ticket → Frontend::Agent::Ticket::ViewClose

Ticket::Frontend::AgentTicketClose###Permission

Required permissions to use the close ticket screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Permission'} = 'close';
```

Ticket::Frontend::AgentTicketClose###RequiredLock

Defines if a ticket lock is required in the close ticket screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketClose###TicketType

Sets the ticket type in the close ticket screen of the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketClose###Service

Sets the service in the close ticket screen of the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketClose###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###Queue

Sets the queue in the ticket close screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketClose###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###Owner

Sets the ticket owner in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Owner'} = '0';
```

Ticket::Frontend::AgentTicketClose###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###Responsible

Sets the responsible agent of the ticket in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Responsible'} = '0';
```

Ticket::Frontend::AgentTicketClose###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###State

If a note is added by an agent, sets the state of a ticket in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'State'} = '1';
```

Ticket::Frontend::AgentTicketClose###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketClose###StateType

Defines the next state of a ticket after adding a note, in the close ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateType'} = [
  'closed'
];
```

Ticket::Frontend::AgentTicketClose###StateDefault

Defines the default next state of a ticket after adding a note, in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateDefault'} = 'closed successful';
```

Ticket::Frontend::AgentTicketClose###Note

Allows adding notes in the close ticket screen of the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketClose###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketClose###Subject

Sets the default subject for notes added in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketClose###Body

Sets the default body text for notes added in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketClose###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the close ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketClose###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the close ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketClose###ArticleTypeDefault

Defines the default type of the note in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketClose###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ArticleTypes'} = {
```

```
'note-external' => '0',
'note-internal' => '1',
'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketClose###Priority

Shows the ticket priority options in the close ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketClose###PriorityDefault

Defines the default ticket priority in the close ticket screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketClose###Title

Shows the title fields in the close ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Title'} = '0';
```

Ticket::Frontend::AgentTicketClose###HistoryType

Defines the history type for the close ticket screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketClose###HistoryComment

Defines the history comment for the close ticket screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'HistoryComment'} = '%Close';
```

Ticket::Frontend::AgentTicketClose###DynamicField

Dynamic fields shown in the ticket close screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketClose###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketClose###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewCompose

Ticket::Frontend::AgentTicketCompose###Permission

Required permissions to use the ticket compose screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'Permission'} = 'compose';
```

Ticket::Frontend::AgentTicketCompose###RequiredLock

Defines if a ticket lock is required in the ticket compose screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketCompose###StateDefault

Defines the default next state of a ticket if it is composed / answered in the ticket compose screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketCompose###StateType

Defines the next possible states after composing / answering a ticket in the ticket compose screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'StateType'} = [
  'open',
  'closed',
  'pending auto',
  'pending reminder'
];
```

Ticket::Frontend::AgentTicketCompose###ArticleTypes

Specifies the different article types that will be used in the system.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'ArticleTypes'} = [
  'email-external',
  'email-internal'
];
```

Ticket::Frontend::AgentTicketCompose###DefaultArticleType

Specifies the default article type for the ticket compose screen in the agent interface if the article type cannot be automatically detected.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'DefaultArticleType'} = 'email-external';
```

Ticket::Frontend::ResponseFormat

Defines the format of responses in the ticket compose screen of the agent interface ([% Data.OrigFrom | html %] is From 1:1, [% Data.OrigFromName | html %] is only realname of From).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ResponseFormat'} = '[% Data.Salutation | html %] [% Data.StdResponse | html %] [% Data.Signature | html %] [% Data.Created | Localize("TimeShort") %] - [% Data.OrigFromName | html %] [% Translate("wrote") | html %]: [% Data.Body | html %]';
```

Ticket::Frontend::Quote

Defines the used character for plaintext email quotes in the ticket compose screen of the agent interface. If this is empty or inactive, original emails will not be quoted but appended to the response.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Quote'} = '>';
```

Ticket::Frontend::ResponseQuoteMaxLines

Defines the maximum number of quoted lines to be added to responses.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ResponseQuoteMaxLines'} = '99';
```

Ticket::Frontend::ComposeAddCustomerAddress

Adds customers email addresses to recipients in the ticket compose screen of the agent interface. The customers email address won't be added if the article type is email-internal.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ComposeAddCustomerAddress'} = '1';
```

Ticket::Frontend::ComposeReplaceSenderAddress

Replaces the original sender with current customer's email address on compose answer in the ticket compose screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ComposeReplaceSenderAddress'} = '0';
```

Ticket::Frontend::AgentTicketCompose###DynamicField

Dynamic fields shown in the ticket compose screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'DynamicField'} = {};
```

Ticket → Frontend::Agent::Ticket::ViewCustomer

Ticket::Frontend::AgentTicketCustomer###Permission

Required permissions to change the customer of a ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCustomer'}->{'Permission'} = 'customer';
```

Ticket::Frontend::AgentTicketCustomer###RequiredLock

Defines if a ticket lock is required to change the customer of a ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCustomer'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketCustomer::CustomerIDReadOnly

Controls if CustomerID is editable in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketCustomer::CustomerIDReadOnly'} = '1';
```

Ticket → Frontend::Agent::Ticket::ViewEmailNew

Ticket::Frontend::AgentTicketEmail###Priority

Sets the default priority for new email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Priority'} = '3 normal';
```

Ticket::Frontend::AgentTicketEmail###ArticleType

Sets the default article type for new email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'ArticleType'} = 'email-external';
```

Ticket::Frontend::AgentTicketEmail###SenderType

Sets the default sender type for new email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'SenderType'} = 'agent';
```

Ticket::Frontend::AgentTicketEmail::CustomerIDReadOnly

Controls if CustomerID is editable in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail::CustomerIDReadOnly'} = '1';
```

Ticket::Frontend::AgentTicketEmail###Subject

Sets the default subject for new email tickets (e.g. 'email Outbound') in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketEmail###Body

Sets the default text for new email tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketEmail###StateDefault

Sets the default next ticket state, after the creation of an email ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketEmail###StateType

Determines the next possible ticket states, after the creation of a new email ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'StateType'} = [
  'open',
  'pending auto',
  'pending reminder',
  'closed'
];
```

Ticket::Frontend::AgentTicketEmail###HistoryType

Defines the history type for the email ticket screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'HistoryType'} = 'EmailAgent';
```

Ticket::Frontend::AgentTicketEmail###HistoryComment

Defines the history comment for the email ticket screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'HistoryComment'} = '';
```

Ticket::Frontend::AgentTicketEmail###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketEmail###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketEmail###DynamicField

Dynamic fields shown in the ticket email screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketEmail###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketEmail###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'RichTextHeight'} = '320';
```

Ticket → Frontend::Agent::Ticket::ViewEmailOutbound

Ticket::Frontend::AgentTicketEmailOutbound###Permission

Required permissions to use the email outbound screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'Permission'} = 'compose';
```

Ticket::Frontend::AgentTicketEmailOutbound###RequiredLock

Defines if a ticket lock is required in the email outbound screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketEmailOutbound###StateDefault

Defines the default next state of a ticket after the message has been sent, in the email outbound screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketEmailOutbound###StateType

Defines the next possible states after sending a message in the email outbound screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'StateType'} = [
  'open',
  'closed',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketEmailOutbound###ArticleTypeDefault

Defines the default type of the message in the email outbound screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'ArticleTypeDefault'} =
'email-internal';
```

Ticket::Frontend::AgentTicketEmailOutbound###ArticleTypes

Specifies the different article types that will be used in the system.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'ArticleTypes'} = [
  'email-external',
  'email-internal'
];
```

Ticket::Frontend::AgentTicketEmailOutbound###DynamicField

Dynamic fields shown in the email outbound screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketEmailOutbound###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketEmailOutbound###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEmailOutbound'}->{'RichTextHeight'} = '300';
```

Ticket → Frontend::Agent::Ticket::ViewEscalation

Ticket::Frontend::AgentTicketEscalationView###TicketPermission

Defines the required permission to show a ticket in the escalation view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'TicketPermission'} = 'rw';
```

Ticket::Frontend::AgentTicketEscalationView###ViewableTicketsPage

Shows all open tickets (even if they are locked) in the escalation view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'ViewableTicketsPage'} = '50';
```

Ticket::Frontend::AgentTicketEscalationView###SortBy::Default

Defines the default ticket attribute for ticket sorting in the escalation view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'SortBy::Default'} = 'EscalationTime';
```

Ticket::Frontend::AgentTicketEscalationView###Order::Default

Defines the default ticket order (after priority sort) in the escalation view of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketEscalationView###DefaultColumns

Columns that can be filtered in the escalation view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserPhone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
  'CustomerCompanyName' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '2',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '2',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '2',
```

```
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewForward

Ticket::Frontend::AgentTicketForward###Permission

Required permissions to use the ticket forward screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'Permission'} = 'forward';
```

Ticket::Frontend::AgentTicketForward###RequiredLock

Defines if a ticket lock is required in the ticket forward screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketForward###StateDefault

Defines the default next state of a ticket after being forwarded, in the ticket forward screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'StateDefault'} = 'closed
successful';
```

Ticket::Frontend::AgentTicketForward###StateType

Defines the next possible states after forwarding a ticket in the ticket forward screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'StateType'} = [
  'open',
  'closed',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketForward###ArticleTypeDefault

Defines the default type of forwarded message in the ticket forward screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'ArticleTypeDefault'} = 'email-
external';
```

Ticket::Frontend::AgentTicketForward###ArticleTypes

Specifies the different article types that will be used in the system.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'ArticleTypes'} = [
  'email-external',
  'email-internal'
];
```

Ticket::Frontend::AgentTicketForward###DynamicField

Dynamic fields shown in the ticket forward screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketForward###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketForward###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewFreeText**Ticket::Frontend::AgentTicketFreeText###Permission**

Required permissions to use the ticket free text screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Permission'} = 'rw';
```

Ticket::Frontend::AgentTicketFreeText###RequiredLock

Defines if a ticket lock is required in the ticket free text screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###TicketType

Sets the ticket type in the ticket free text screen of the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'TicketType'} = '1';
```

Ticket::Frontend::AgentTicketFreeText###Service

Sets the service in the ticket free text screen of the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Service'} = '1';
```

Ticket::Frontend::AgentTicketFreeText###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###Queue

Sets the queue in the ticket free text screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###Owner

Sets the ticket owner in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Owner'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###Responsible

Sets the responsible agent of the ticket in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Responsible'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###State

If a note is added by an agent, sets the state of a ticket in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'State'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###StateType

Defines the next state of a ticket after adding a note, in the ticket free text screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'StateType'} = [
  'open',
  'closed',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketFreeText###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket free text screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketFreeText###Note

Allows adding notes in the ticket free text screen of the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Note'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'NoteMandatory'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###Subject

Defines the default subject of a note in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketFreeText###Body

Defines the default body of a note in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketFreeText###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket free text screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket free text screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###ArticleTypeDefault

Defines the default type of the note in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketFreeText###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypes'} = {
  'note-external' => '1',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketFreeText###Priority

Shows the ticket priority options in the ticket free text screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketFreeText###PriorityDefault

Defines the default ticket priority in the ticket free text screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketFreeText###Title

Shows the title field in the ticket free text screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Title'} = '1';
```

Ticket::Frontend::AgentTicketFreeText###HistoryType

Defines the history type for the ticket free text screen action, which gets used for ticket history.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryType'} = 'AddNote';
```


Ticket::Frontend::AgentTicketFreeText###HistoryComment

Defines the history comment for the ticket free text screen action, which gets used for ticket history.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryComment'} = '%FreeText';
```

Ticket::Frontend::AgentTicketFreeText###DynamicField

Dynamic fields shown in the ticket free text screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketFreeText###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketFreeText###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewHistory

Ticket::Frontend::HistoryOrder

Shows the ticket history (reverse ordered) in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::HistoryOrder'} = 'normal';
```

Ticket::Frontend::HistoryTypes###000-Framework

Controls how to display the ticket history entries as readable values.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::HistoryTypes'}->{'000-Framework'} = {
  'AddNote' => 'Added note (%s)',
  'ArchiveFlagUpdate' => 'Archive state changed: "%s"',
  'Bounce' => 'Bounced to "%s".',
  'CustomerUpdate' => 'Updated: %s',
  'EmailAgent' => 'Email sent to customer.',
  'EmailCustomer' => 'Added email. %s',
  'EscalationResponseTimeNotifyBefore' => 'Escalation response time forewarned',
  'EscalationResponseTimeStart' => 'Escalation response time in effect',
  'EscalationResponseTimeStop' => 'Escalation response time finished',
  'EscalationSolutionTimeNotifyBefore' => 'Escalation solution time forewarned',
  'EscalationSolutionTimeStart' => 'Escalation solution time in effect',
  'EscalationSolutionTimeStop' => 'Escalation solution time finished',
  'EscalationUpdateTimeNotifyBefore' => 'Escalation update time forewarned',
  'EscalationUpdateTimeStart' => 'Escalation update time in effect',
}
```

```
'EscalationUpdateTimeStop' => 'Escalation update time finished',
'FollowUp' => 'FollowUp for [%s]. %s',
'Forward' => 'Forwarded to "%s".',
'Lock' => 'Locked ticket.',
'LoopProtection' => 'Loop-Protection! No auto-response sent to "%s".',
'Misc' => '%s',
'Move' => 'Ticket moved into Queue "%s" (%s) from Queue "%s" (%s).',
'NewTicket' => 'New Ticket [%s] created (Q=%s;P=%s;S=%s).',
'OwnerUpdate' => 'New owner is "%s" (ID=%s).',
'PhoneCallAgent' => 'Agent called customer.',
'PhoneCallCustomer' => 'Customer called us.',
'PriorityUpdate' => 'Changed priority from "%s" (%s) to "%s" (%s).',
'Remove' => '%s',
'ResponsibleUpdate' => 'New responsible is "%s" (ID=%s).',
'SLAUpdate' => 'Updated SLA to %s (ID=%s).',
'SendAgentNotification' => '"%s" notification was sent to "%s" by "%s".',
'SendAnswer' => 'Email sent to "%s".',
'SendAutoFollowUp' => 'AutoFollowUp sent to "%s".',
'SendAutoReject' => 'AutoReject sent to "%s".',
'SendAutoReply' => 'AutoReply sent to "%s".',
'SendCustomerNotification' => 'Notification sent to "%s".',
'ServiceUpdate' => 'Updated Service to %s (ID=%s).',
'SetPendingTime' => 'Updated: %s',
'StateUpdate' => 'Old: "%s" New: "%s"',
'Subscribe' => 'Added subscription for user "%s".',
'SystemRequest' => 'System Request (%s).',
'TicketDynamicFieldUpdate' => 'Updated: %s=%s;%s=%s;%s=%s;',
'TicketLinkAdd' => 'Added link to ticket "%s".',
'TicketLinkDelete' => 'Deleted link to ticket "%s".',
'TimeAccounting' => '%s time unit(s) accounted. Now total %s time unit(s).',
'TitleUpdate' => 'Title updated: Old: "%s", New: "%s"',
'TypeUpdate' => 'Updated Type to %s (ID=%s).',
'Unlock' => 'Unlocked ticket.',
'Unsubscribe' => 'Removed subscription for user "%s".',
'WebRequestCustomer' => 'Customer request via web.'
};
```

Ticket → Frontend::Agent::Ticket::ViewLocked

Ticket::Frontend::AgentTicketLockedView###SortBy::Default

Defines the default ticket attribute for ticket sorting in the locked ticket view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketLockedView###Order::Default

Defines the default ticket order in the ticket locked view of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketLockedView###DefaultColumns

Columns that can be filtered in the locked view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUser-Phone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'DefaultColumns'} = {
```

```
'Age' => '2',
'Changed' => '1',
'Created' => '1',
'CustomerCompanyName' => '1',
'CustomerID' => '2',
'CustomerName' => '1',
'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewMerge

Ticket::Frontend::AgentTicketMerge###Permission

Required permissions to use the ticket merge screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'Permission'} = 'rw';
```

Ticket::Frontend::AgentTicketMerge###RequiredLock

Defines if a ticket lock is required in the ticket merge screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::MergeText

When tickets are merged, the customer can be informed per email by setting the check box "Inform Sender". In this text area, you can define a pre-formatted text which can later be modified by the agents.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MergeText'} = 'Your email with ticket number "<OTRS_TICKET>" is merged to "<OTRS_MERGE_TO_TICKET>";
```

Ticket::Frontend::AutomaticMergeSubject

When tickets are merged, a note will be added automatically to the ticket which is no longer active. Here you can define the subject of this note (this subject cannot be changed by the agent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AutomaticMergeSubject'} = 'Ticket Merged';
```

Ticket::Frontend::AutomaticMergeText

When tickets are merged, a note will be added automatically to the ticket which is no longer active. Here you can define the body of this note (this text cannot be changed by the agent).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AutomaticMergeText'} = 'Merged Ticket <OTRS_TICKET> to <OTRS_MERGE_TO_TICKET>.';
```

Ticket::Frontend::AgentTicketMerge###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketMerge###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewMove

Ticket::Frontend::MoveType

Determines if the list of possible queues to move to ticket into should be displayed in a dropdown list or in a new window in the agent interface. If "New Window" is set you can add a move note to the ticket.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MoveType'} = 'form';
```

Ticket::Frontend::AgentTicketMove###RequiredLock

Automatically lock and set owner to current Agent after opening the move ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketMove###State

Allows to set a new ticket state in the move ticket screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'State'} = '1';
```

Ticket::Frontend::AgentTicketMove###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketMove###StateType

Defines the next state of a ticket after being moved to another queue, in the move ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'StateType'} = [
  'open',
  'closed'
];
```

Ticket::Frontend::AgentTicketMove###Priority

Shows the ticket priority options in the move ticket screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketMove###Note

Allows adding notes in the ticket free text screen of the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Note'} = '0';
```

Ticket::Frontend::AgentTicketMove###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'NoteMandatory'} = '0';
```

Ticket::Frontend::AgentTicketMove###NextScreen

Determines the next screen after the ticket is moved. LastScreenOverview will return the last overview screen (e.g. search results, queueview, dashboard). TicketZoom will return to the TicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'NextScreen'} = 'TicketZoom';
```

Ticket::Frontend::AgentTicketMove###Subject

Sets the default subject for notes added in the ticket move screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketMove###Body

Sets the default body text for notes added in the ticket move screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketMove###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketMove###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RichTextHeight'} = '100';
```

Ticket::Frontend::AgentTicketMove###DynamicField

Dynamic fields shown in the ticket move screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketMove'}->{'DynamicField'} = {};
```

Ticket → Frontend::Agent::Ticket::ViewNote**Ticket::Frontend::AgentTicketNote###Permission**

Required permissions to use the ticket note screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Permission'} = 'note';
```

Ticket::Frontend::AgentTicketNote###RequiredLock

Defines if a ticket lock is required in the ticket note screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketNote###TicketType

Sets the ticket type in the ticket note screen of the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketNote###Service

Sets the service in the ticket note screen of the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketNote###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketNote###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketNote###Queue

Sets the queue in the ticket note screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketNote###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketNote###Owner

Sets the ticket owner in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Owner'} = '0';
```

Ticket::Frontend::AgentTicketNote###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketNote###Responsible

Sets the responsible agent of the ticket in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Responsible'} = '0';
```

Ticket::Frontend::AgentTicketNote###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketNote###State

If a note is added by an agent, sets the state of a ticket in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'State'} = '0';
```

Ticket::Frontend::AgentTicketNote###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'StateMandatory'} = '0';
```


Ticket::Frontend::AgentTicketNote###StateType

Defines the next state of a ticket after adding a note, in the ticket note screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'StateType'} = [  
  'open',  
  'closed',  
  'pending reminder',  
  'pending auto'  
];
```

Ticket::Frontend::AgentTicketNote###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket note screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketNote###Note

Allows adding notes in the ticket note screen of the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketNote###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketNote###Subject

Sets the default subject for notes added in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketNote###Body

Sets the default body text for notes added in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketNote###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket note screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketNote###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket note screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketNote###ArticleTypeDefault

Defines the default type of the note in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketNote###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ArticleTypes'} = {
  'note-external' => '1',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketNote###Priority

Shows the ticket priority options in the ticket note screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketNote###PriorityDefault

Defines the default ticket priority in the ticket note screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketNote###Title

Shows the title fields in the ticket note screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Title'} = '0';
```

Ticket::Frontend::AgentTicketNote###HistoryType

Defines the history type for the ticket note screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketNote###HistoryComment

Defines the history comment for the ticket note screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryComment'} = '%Note';
```

Ticket::Frontend::AgentTicketNote###DynamicField

Dynamic fields shown in the ticket note screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketNote###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketNote###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewOwner

Ticket::Frontend::AgentTicketOwner###Permission

Required permissions to use the ticket owner screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Permission'} = 'owner';
```

Ticket::Frontend::AgentTicketOwner###RequiredLock

Defines if a ticket lock is required in the ticket owner screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketOwner###TicketType

Sets the ticket type in the ticket owner screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketOwner###Service

Sets the service in the ticket owner screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketOwner###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketOwner###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketOwner###Queue

Sets the queue in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketOwner###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketOwner###Owner

Sets the ticket owner in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Owner'} = '1';
```

Ticket::Frontend::AgentTicketOwner###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'OwnerMandatory'} = '1';
```

Ticket::Frontend::AgentTicketOwner###Responsible

Sets the responsible agent of the ticket in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Responsible'} = '0';
```

Ticket::Frontend::AgentTicketOwner###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketOwner###State

If a note is added by an agent, sets the state of the ticket in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'State'} = '0';
```

Ticket::Frontend::AgentTicketOwner###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketOwner###StateType

Defines the next state of a ticket after adding a note, in the ticket owner screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateType'} = [
  'open',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketOwner###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketOwner###Note

Allows adding notes in the ticket owner screen of a zoomed ticket in the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketOwner###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketOwner###Subject

Sets the default subject for notes added in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketOwner###Body

Sets the default body text for notes added in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketOwner###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket owner screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketOwner###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket owner screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketOwner###ArticleTypeDefault

Defines the default type of the note in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketOwner###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ArticleTypes'} = {
  'note-external' => '0',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketOwner###Priority

Shows the ticket priority options in the ticket owner screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketOwner###PriorityDefault

Defines the default ticket priority in the ticket owner screen of a zoomed ticket in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketOwner###Title

Shows the title fields in the ticket owner screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Title'} = '0';
```

Ticket::Frontend::AgentTicketOwner###HistoryType

Defines the history type for the ticket owner screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketOwner###HistoryComment

Defines the history comment for the ticket owner screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'HistoryComment'} = '%Owner';
```

Ticket::Frontend::AgentTicketOwner###DynamicField

Dynamic fields shown in the ticket owner screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketOwner###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketOwner###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewPending

Ticket::Frontend::AgentTicketPending###Permission

Required permissions to use the ticket pending screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Permission'} = 'pending';
```

Ticket::Frontend::AgentTicketPending###RequiredLock

Defines if a ticket lock is required in the ticket pending screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketPending###TicketType

Sets the ticket type in the ticket pending screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketPending###Service

Sets the service in the ticket pending screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketPending###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###Queue

Sets the queue in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketPending###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###Owner

Sets the ticket owner in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Owner'} = '0';
```

Ticket::Frontend::AgentTicketPending###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###Responsible

Sets the responsible agent of the ticket in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Responsible'} = '0';
```


Ticket::Frontend::AgentTicketPending###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###State

If a note is added by an agent, sets the state of the ticket in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'State'} = '1';
```

Ticket::Frontend::AgentTicketPending###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPending###StateType

Defines the next state of a ticket after adding a note, in the ticket pending screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateType'} = [  
  'pending reminder',  
  'pending auto'  
];
```

Ticket::Frontend::AgentTicketPending###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateDefault'} = 'pending  
reminder';
```

Ticket::Frontend::AgentTicketPending###Note

Allows adding notes in the ticket pending screen of a zoomed ticket in the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketPending###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketPending###Subject

Sets the default subject for notes added in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketPending###Body

Sets the default body text for notes added in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketPending###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket pending screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketPending###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket pending screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketPending###ArticleTypeDefault

Defines the default type of the note in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketPending###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypes'} = {
  'note-external' => '0',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketPending###Priority

Shows the ticket priority options in the ticket pending screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketPending###PriorityDefault

Defines the default ticket priority in the ticket pending screen of a zoomed ticket in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketPending###Title

Shows the title fields in the ticket pending screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Title'} = '0';
```

Ticket::Frontend::AgentTicketPending###HistoryType

Defines the history type for the ticket pending screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketPending###HistoryComment

Defines the history comment for the ticket pending screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryComment'} = '%Pending';
```

Ticket::Frontend::AgentTicketPending###DynamicField

Dynamic fields shown in the ticket pending screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketPending###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketPending###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewPhoneInbound

Ticket::Frontend::AgentTicketPhoneInbound###Permission

Required permissions to use the ticket phone inbound screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Permission'} = 'phone';
```

Ticket::Frontend::AgentTicketPhoneInbound###RequiredLock

Defines if a ticket lock is required in the ticket phone inbound screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketPhoneInbound###ArticleType

Defines the default type of the note in the ticket phone inbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'ArticleType'} = 'phone';
```

Ticket::Frontend::AgentTicketPhoneInbound###SenderType

Defines the default sender type for phone tickets in the ticket phone inbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'SenderType'} = 'customer';
```

Ticket::Frontend::AgentTicketPhoneInbound###Subject

Defines the default subject for phone tickets in the ticket phone inbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketPhoneInbound###Body

Defines the default note body text for phone tickets in the ticket phone inbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketPhoneInbound###State

Defines the default ticket next state after adding a phone note in the ticket phone inbound screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'State'} = 'open';
```

Ticket::Frontend::AgentTicketPhoneInbound###StateType

Next possible ticket states after adding a phone note in the ticket phone inbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'StateType'} = [
  'open',
  'pending auto',
  'pending reminder',
  'closed'
];
```

Ticket::Frontend::AgentTicketPhoneInbound###HistoryType

Defines the history type for the ticket phone inbound screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'HistoryType'} =
  'PhoneCallCustomer';
```

Ticket::Frontend::AgentTicketPhoneInbound###HistoryComment

Defines the history comment for the ticket phone inbound screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'HistoryComment'} = '';
```

Ticket::Frontend::AgentTicketPhoneInbound###DynamicField

Dynamic fields shown in the ticket phone inbound screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketPhoneInbound###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RichTextWidth'} = '475';
```

Ticket::Frontend::AgentTicketPhoneInbound###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RichTextHeight'} = '200';
```

Ticket → Frontend::Agent::Ticket::ViewPhoneNew

Ticket::Frontend::AgentTicketPhone###Priority

Sets the default priority for new phone tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Priority'} = '3 normal';
```

Ticket::Frontend::AgentTicketPhone###ArticleType

Sets the default article type for new phone tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'ArticleType'} = 'phone';
```

Ticket::Frontend::AgentTicketPhone###SenderType

Sets the default sender type for new phone ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SenderType'} = 'customer';
```

Ticket::Frontend::AgentTicketPhone::CustomerIDReadOnly

Controls if CustomerID is editable in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone::CustomerIDReadOnly'} = '1';
```

Ticket::Frontend::AgentTicketPhone::AllowMultipleFrom

Controls if more than one from entry can be set in the new phone ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone::AllowMultipleFrom'} = '1';
```

Ticket::Frontend::AgentTicketPhone###Subject

Sets the default subject for new phone tickets (e.g. 'Phone call') in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketPhone###Body

Sets the default note text for new telephone tickets. E.g 'New ticket via call' in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketPhone###StateDefault

Sets the default next state for new phone tickets in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketPhone###StateType

Determines the next possible ticket states, after the creation of a new phone ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'StateType'} = [
  'open',
  'pending auto',
  'pending reminder',
  'closed'
];
```

Ticket::Frontend::AgentTicketPhone###HistoryType

Defines the history type for the phone ticket screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'HistoryType'} = 'PhoneCallCustomer';
```

Ticket::Frontend::AgentTicketPhone###HistoryComment

Defines the history comment for the phone ticket screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'HistoryComment'} = '';
```

Ticket::Frontend::AgentTicketPhone###SplitLinkType

Sets the default link type of splitted tickets in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SplitLinkType'} = {
  'Direction' => 'Target',
  'LinkType' => 'ParentChild'
};
```

Ticket::Frontend::AgentTicketPhone###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPhone###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPhone###DynamicField

Dynamic fields shown in the ticket phone screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketPhone###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketPhone###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'RichTextHeight'} = '320';
```

Ticket → Frontend::Agent::Ticket::ViewPhoneOutbound

Ticket::Frontend::AgentTicketPhoneOutbound###Permission

Required permissions to use the ticket phone outbound screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Permission'} = 'phone';
```

Ticket::Frontend::AgentTicketPhoneOutbound###RequiredLock

Defines if a ticket lock is required in the ticket phone outbound screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketPhoneOutbound###ArticleType

Defines the default type of the note in the ticket phone outbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'ArticleType'} = 'phone';
```

Ticket::Frontend::AgentTicketPhoneOutbound###SenderType

Defines the default sender type for phone tickets in the ticket phone outbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'SenderType'} = 'agent';
```

Ticket::Frontend::AgentTicketPhoneOutbound###Subject

Defines the default subject for phone tickets in the ticket phone outbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketPhoneOutbound###Body

Defines the default note body text for phone tickets in the ticket phone outbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketPhoneOutbound###State

Defines the default ticket next state after adding a phone note in the ticket phone outbound screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'State'} = 'closed successful';
```

Ticket::Frontend::AgentTicketPhoneOutbound###StateType

Next possible ticket states after adding a phone note in the ticket phone outbound screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'StateType'} = [
  'open',
  'pending auto',
  'pending reminder',
  'closed'
];
```

Ticket::Frontend::AgentTicketPhoneOutbound###HistoryType

Defines the history type for the ticket phone outbound screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'HistoryType'} = 'PhoneCallAgent';
```

Ticket::Frontend::AgentTicketPhoneOutbound###HistoryComment

Defines the history comment for the ticket phone outbound screen action, which gets used for ticket history in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'HistoryComment'} = '';
```

Ticket::Frontend::AgentTicketPhoneOutbound###DynamicField

Dynamic fields shown in the ticket phone outbound screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketPhoneOutbound###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RichTextWidth'} = '475';
```

Ticket::Frontend::AgentTicketPhoneOutbound###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RichTextHeight'} = '200';
```

Ticket → Frontend::Agent::Ticket::ViewPrint

Ticket::Frontend::AgentTicketPrint###DynamicField

Dynamic fields shown in the ticket print screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPrint'}->{'DynamicField'} = {};
```

Ticket → Frontend::Agent::Ticket::ViewPriority

Ticket::Frontend::AgentTicketPriority###Permission

Required permissions to use the ticket priority screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Permission'} = 'priority';
```

Ticket::Frontend::AgentTicketPriority###RequiredLock

Defines if a ticket lock is required in the ticket priority screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RequiredLock'} = '1';
```

Ticket::Frontend::AgentTicketPriority###TicketType

Sets the ticket type in the ticket priority screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketPriority###Service

Sets the service in the ticket priority screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketPriority###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###Queue

Sets the queue in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketPriority###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###Owner

Sets the ticket owner in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Owner'} = '0';
```

Ticket::Frontend::AgentTicketPriority###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###Responsible

Sets the responsible agent of the ticket in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Responsible'} = '0';
```

Ticket::Frontend::AgentTicketPriority###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ResponsibleMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###State

If a note is added by an agent, sets the state of the ticket in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'State'} = '0';
```

Ticket::Frontend::AgentTicketPriority###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketPriority###StateType

Defines the next state of a ticket after adding a note, in the ticket priority screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateType'} = [
  'open',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketPriority###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketPriority###Note

Allows adding notes in the ticket priority screen of a zoomed ticket in the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketPriority###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketPriority###Subject

Sets the default subject for notes added in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketPriority###Body

Sets the default body text for notes added in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketPriority###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket priority screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketPriority###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket priority screen of a zoomed ticket in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketPriority###ArticleTypeDefault

Defines the default type of the note in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketPriority###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypes'} = {
  'note-external' => '0',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketPriority###Priority

Shows the ticket priority options in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Priority'} = '1';
```

Ticket::Frontend::AgentTicketPriority###PriorityDefault

Defines the default ticket priority in the ticket priority screen of a zoomed ticket in the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketPriority###Title

Shows the title fields in the ticket priority screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Title'} = '0';
```

Ticket::Frontend::AgentTicketPriority###HistoryType

Defines the history type for the ticket priority screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketPriority###HistoryComment

Defines the history comment for the ticket priority screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'HistoryComment'} = '%Priority';
```

Ticket::Frontend::AgentTicketPriority###DynamicField

Dynamic fields shown in the ticket priority screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketPriority###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketPriority###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RichTextHeight'} = '100';
```

Ticket → Frontend::Agent::Ticket::ViewQueue

Ticket::Frontend::AgentTicketQueue###StripEmptyLines

Strips empty lines on the ticket preview in the queue view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'StripEmptyLines'} = '0';
```

Ticket::Frontend::AgentTicketQueue###ViewAllPossibleTickets

Shows all both ro and rw queues in the queue view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'ViewAllPossibleTickets'} = '0';
```

Ticket::Frontend::AgentTicketQueue###HideEmptyQueues

Show queues even when only locked tickets are in.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'HideEmptyQueues'} = '0';
```

Ticket::Frontend::AgentTicketQueue###HighlightAge1

Sets the age in minutes (first level) for highlighting queues that contain untouched tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'HighlightAge1'} = '1440';
```

Ticket::Frontend::AgentTicketQueue###HighlightAge2

Sets the age in minutes (second level) for highlighting queues that contain untouched tickets.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'HighlightAge2'} = '2880';
```

Ticket::Frontend::AgentTicketQueue###Blink

Activates a blinking mechanism of the queue that contains the oldest ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'Blink'} = '1';
```

Ticket::Frontend::AgentTicketQueue###UseSubQueues

Include tickets of subqueues per default when selecting a queue.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'UseSubQueues'} = '0';
```

Ticket::Frontend::AgentTicketQueue###QueueSort

Sorts the tickets (ascendingly or descendingly) when a single queue is selected in the queue view and after the tickets are sorted by priority. Values: 0 = ascending (oldest on top, default), 1 = descending (youngest on top). Use the QueueID for the key and 0 or 1 for value.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'QueueSort'} = {
  '3' => '0',
  '7' => '1'
};
```

Ticket::Frontend::AgentTicketQueue###SortBy::Default

Defines the default sort criteria for all queues displayed in the queue view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketQueue###PreSort::ByPriority

Defines if a pre-sorting by priority should be done in the queue view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'PreSort::ByPriority'} = '1';
```

Ticket::Frontend::AgentTicketQueue###Order::Default

Defines the default sort order for all queues in the queue view, after priority sort.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketQueue###DefaultColumns

Columns that can be filtered in the queue view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUser-Phone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
  'CustomerCompanyName' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '2',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '2',
  'TicketNumber' => '2',
  'Title' => '2',
  'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewResponsible

Ticket::Frontend::AgentTicketResponsibleView###SortBy::Default

Defines the default ticket attribute for ticket sorting in the responsible view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketResponsibleView###Order::Default

Defines the default ticket order in the responsible view of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketResponsible###Permission

Required permissions to use the ticket responsible screen in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Permission'} = 'responsible';
```

Ticket::Frontend::AgentTicketResponsible###RequiredLock

Defines if a ticket lock is required in the ticket responsible screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RequiredLock'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###TicketType

Sets the ticket type in the ticket responsible screen of the agent interface (Ticket::Type needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'TicketType'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###Service

Sets the service in the ticket responsible screen of the agent interface (Ticket::Service needs to be activated).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Service'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###ServiceMandatory

Sets if service must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###SLAMandatory

Sets if SLA must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###Queue

Sets the queue in the ticket responsible screen of a zoomed ticket in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Queue'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###QueueMandatory

Sets if queue must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'QueueMandatory'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###Owner

Sets the ticket owner in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Owner'} = '0';
```


Ticket::Frontend::AgentTicketResponsible###OwnerMandatory

Sets if ticket owner must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'OwnerMandatory'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###Responsible

Sets the responsible agent of the ticket in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Responsible'} = '1';
```

Ticket::Frontend::AgentTicketResponsible###ResponsibleMandatory

Sets if ticket responsible must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ResponsibleMandatory'} = '1';
```

Ticket::Frontend::AgentTicketResponsible###State

If a note is added by an agent, sets the state of a ticket in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'State'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###StateMandatory

Sets if state must be selected by the agent.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'StateMandatory'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###StateType

Defines the next state of a ticket after adding a note, in the ticket responsible screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'StateType'} = [
  'open',
  'pending reminder',
  'pending auto'
];
```

Ticket::Frontend::AgentTicketResponsible###StateDefault

Defines the default next state of a ticket after adding a note, in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::AgentTicketResponsible###Note

Allows adding notes in the ticket responsible screen of the agent interface. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Note'} = '1';
```

Ticket::Frontend::AgentTicketResponsible###NoteMandatory

Sets if note must be filled in by the agent. Can be overwritten by Ticket::Frontend::NeedAccountedTime.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'NoteMandatory'} = '1';
```

Ticket::Frontend::AgentTicketResponsible###Subject

Sets the default subject for notes added in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketResponsible###Body

Sets the default body text for notes added in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketResponsible###InvolvedAgent

Shows a list of all the involved agents on this ticket, in the ticket responsible screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'InvolvedAgent'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###InformAgent

Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket responsible screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'InformAgent'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###ArticleTypeDefault

Defines the default type of the note in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ArticleTypeDefault'} = 'note-internal';
```

Ticket::Frontend::AgentTicketResponsible###ArticleTypes

Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ArticleTypes'} = {
  'note-external' => '0',
  'note-internal' => '1',
  'note-report' => '0'
};
```

Ticket::Frontend::AgentTicketResponsible###Priority

Shows the ticket priority options in the ticket responsible screen of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Priority'} = '0';
```

Ticket::Frontend::AgentTicketResponsible###PriorityDefault

Defines the default ticket priority in the ticket responsible screen of the agent interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::AgentTicketResponsible###Title

Shows the title fields in the ticket responsible screen of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Title'} = '1';
```

Ticket::Frontend::AgentTicketResponsible###HistoryType

Defines the history type for the ticket responsible screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'HistoryType'} = 'AddNote';
```

Ticket::Frontend::AgentTicketResponsible###HistoryComment

Defines the history comment for the ticket responsible screen action, which gets used for ticket history in the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'HistoryComment'} = '%  
%Responsible';
```

Ticket::Frontend::AgentTicketResponsible###DynamicField

Dynamic fields shown in the ticket responsible screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketResponsible###RichTextWidth

Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RichTextWidth'} = '620';
```

Ticket::Frontend::AgentTicketResponsible###RichTextHeight

Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RichTextHeight'} = '100';
```

Ticket::Frontend::AgentTicketResponsibleView###DefaultColumns

Columns that can be filtered in the responsible view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserPhone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
  'CustomerCompanyName' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '2',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '2',
  'TicketNumber' => '2',
  'Title' => '2',
  'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewSearch

Ticket::Frontend::AgentTicketSearch###ExtendedSearchCondition

Allows extended search conditions in ticket search of the agent interface. With this feature you can search e. g. with this kind of conditions like "(key1&&key2)" or "(key1||key2)".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'ExtendedSearchCondition'} = '1';
```

Ticket::Frontend::AgentTicketSearch###SearchLimit

Maximum number of tickets to be displayed in the result of a search in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchLimit'} = '2000';
```

Ticket::Frontend::AgentTicketSearch###SearchPageShown

Number of tickets to be displayed in each page of a search result in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchPageShown'} = '40';
```

Ticket::Frontend::AgentTicketSearch###SearchViewableTicketLines

Number of lines (per ticket) that are shown by the search utility in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchViewableTicketLines'} = '10';
```

Ticket::Frontend::AgentTicketSearch###SortBy::Default

Defines the default ticket attribute for ticket sorting of the ticket search result of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketSearch###Order::Default

Defines the default ticket order in the ticket search result of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Order::Default'} = 'Down';
```

Ticket::Frontend::AgentTicketSearch###SearchArticleCSVTree

Exports the whole article tree in search result (it can affect the system performance).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchArticleCSVTree'} = '0';
```

Ticket::Frontend::AgentTicketSearch###SearchCSVData

Data used to export the search result in CSV format.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchCSVData'} = [
  'TicketNumber',
  'Age',
  'Created',
  'Closed',
  'FirstLock',
  'FirstResponse',
  'State',
  'Priority',
  'Queue',
  'Lock',
  'Owner',
  'UserFirstname',
  'UserLastname',
  'CustomerID',
  'CustomerName',
  'From',
  'Subject',
  'AccountedTime',
  'ArticleTree',
  'SolutionInMin',
  'SolutionDiffInMin',
```

```
'FirstResponseInMin',  
'FirstResponseDiffInMin'  
];
```

Ticket::Frontend::AgentTicketSearch###ArticleCreateTime

Includes article create times in the ticket search of the agent interface.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'ArticleCreateTime'} = '0';
```

Ticket::Frontend::AgentTicketSearch###Defaults###Fulltext

Defines the default shown ticket search attribute for ticket search screen.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Fulltext'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketNumber

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketNumber'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###Title

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Title'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###From

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'From'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###To

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'To'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###Cc

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Cc'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###Subject

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Subject'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###Body

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Body'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###CustomerID

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerID'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###CustomerUserLogin

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerUserLogin'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###StateIDs

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'StateIDs'} = [];
```

Ticket::Frontend::AgentTicketSearch###Defaults###QueueIDs

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'QueueIDs'} = [];
```

Ticket::Frontend::AgentTicketSearch###Defaults###ServiceIDs

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ServiceIDs'} = [];
```

Ticket::Frontend::AgentTicketSearch###Defaults###SLAIDs

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'SLAIDs'} = [];
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimePoint

Default data to use on attribute for ticket search screen. Example:
 "TicketCreateTimePointFormat=year;TicketCreateTimePointStart=Last;TicketCreateTimePoint=2;"

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimePoint'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimeSlot

Default data to use on attribute for ticket search screen. Example:
 "TicketCreateTimeStartYear=2010;TicketCreateTimeStartMonth=10;TicketCreateTimeStartDay=4;T

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimeSlot'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimePoint

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimePoint'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimeSlot

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimeSlot'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimePoint

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimePoint'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimeSlot

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimeSlot'} = '';
```


Ticket::Frontend::AgentTicketSearch###Defaults###TicketEscalationTimePoint

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketEscalationTimePoint'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###TicketEscalationTimeSlot

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketEscalationTimeSlot'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimePoint

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimePoint'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimeSlot

Defines the default shown ticket search attribute for ticket search screen.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimeSlot'} = '';
```

Ticket::Frontend::AgentTicketSearch###Defaults###SearchInArchive

Defines the default shown ticket search attribute for ticket search screen (AllTickets/ArchivedTickets/NotArchivedTickets).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'SearchInArchive'} = '';
```

Ticket::Frontend::AgentTicketSearch###DynamicField

Dynamic fields shown in the ticket search screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and shown by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketSearch###Defaults###DynamicField

Defines the default shown ticket search attribute for ticket search screen. Example: "Key" must have the name of the Dynamic Field in this case 'X', "Content" must have the value of the Dynamic Field depending on the Dynamic Field type, Text: 'a text', Dropdown: '1', Date/Time: 'Search_DynamicField_XTimeSlotStartYear=1974; Search_DynamicField_XTimeSlotStartMonth=01;

```

Search_DynamicField_XTimeSlotStartDay=26;
Search_DynamicField_XTimeSlotStartHour=00;
Search_DynamicField_XTimeSlotStartMinute=00;
Search_DynamicField_XTimeSlotStartSecond=00;
Search_DynamicField_XTimeSlotStopYear=2013;
Search_DynamicField_XTimeSlotStopMonth=01;
Search_DynamicField_XTimeSlotStopDay=26;
Search_DynamicField_XTimeSlotStopHour=23;
Search_DynamicField_XTimeSlotStopMinute=59;
Search_DynamicField_XTimeSlotStopSecond=59;
'Search_DynamicField_XTimePointFormat=week;
Search_DynamicField_XTimePointStart=Before;
Search_DynamicField_XTimePointValue=7';

```

and or

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketSearch###SearchCSVDynamicField

Dynamic Fields used to export the search result in CSV format.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchCSVDynamicField'} = {};
```

Ticket::Frontend::AgentTicketSearch###DefaultColumns

Columns that can be filtered in the ticket search result view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserPhone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```

$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
  'CustomerCompanyName' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '2',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '2',
  'TicketNumber' => '2',
  'Title' => '2',
  'Type' => '1'
};

```

Ticket → Frontend::Agent::Ticket::ViewService

Ticket::Frontend::AgentTicketService###StripEmptyLines

Strips empty lines on the ticket preview in the service view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'StripEmptyLines'} = '0';
```

Ticket::Frontend::AgentTicketService###ViewAllPossibleTickets

Shows all both ro and rw tickets in the service view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'ViewAllPossibleTickets'} = '0';
```

Ticket::Frontend::AgentTicketService###ServiceSort

Sorts the tickets (ascendingly or descendingly) when a single queue is selected in the service view and after the tickets are sorted by priority. Values: 0 = ascending (oldest on top, default), 1 = descending (youngest on top). Use the ServiceID for the key and 0 or 1 for value.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'ServiceSort'} = {
  '3' => '0',
  '7' => '1'
};
```

Ticket::Frontend::AgentTicketService###SortBy::Default

Defines the default sort criteria for all services displayed in the service view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketService###PreSort::ByPriority

Defines if a pre-sorting by priority should be done in the service view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'PreSort::ByPriority'} = '1';
```

Ticket::Frontend::AgentTicketService###Order::Default

Defines the default sort order for all services in the service view, after priority sort.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketService###DefaultColumns

Columns that can be filtered in the service view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserName, CustomerCompanyname, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketService'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
};
```

```
'Created' => '1',
'CustomerCompanyName' => '1',
'CustomerID' => '2',
'CustomerName' => '1',
'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '2',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewStatus

Ticket::Frontend::AgentTicketStatusView###ViewableTicketsPage

Shows all open tickets (even if they are locked) in the status view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'ViewableTicketsPage'} = '50';
```

Ticket::Frontend::AgentTicketStatusView###SortBy::Default

Defines the default ticket attribute for ticket sorting in the status view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketStatusView###Order::Default

Defines the default ticket order (after priority sort) in the status view of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'Order::Default'} = 'Down';
```

Ticket::Frontend::AgentTicketStatusView###DefaultColumns

Columns that can be filtered in the status view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserPhone, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
```

```
'CustomerCompanyName' => '1',
'CustomerID' => '2',
'CustomerName' => '1',
'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewWatch

Ticket::Frontend::AgentTicketWatchView###SortBy::Default

Defines the default ticket attribute for ticket sorting in the watch view of the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'SortBy::Default'} = 'Age';
```

Ticket::Frontend::AgentTicketWatchView###Order::Default

Defines the default ticket order in the watch view of the agent interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'Order::Default'} = 'Up';
```

Ticket::Frontend::AgentTicketWatchView###DefaultColumns

Columns that can be filtered in the watch view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes, Dynamic Fields (DynamicField_NameX) and Customer attributes (e.g. CustomerUserID, CustomerCompanyName, ...) are allowed.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'DefaultColumns'} = {
  'Age' => '2',
  'Changed' => '1',
  'Created' => '1',
  'CustomerCompanyName' => '1',
  'CustomerID' => '2',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '2',
  'Owner' => '2',
  'PendingTime' => '1',
  'Priority' => '1',
```

```
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

Ticket → Frontend::Agent::Ticket::ViewZoom

Ticket::Frontend::PlainView

Shows a link to see a zoomed email ticket in plain text.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::PlainView'} = '0';
```

Ticket::Frontend::ZoomExpand

Shows all the articles of the ticket (expanded) in the zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomExpand'} = '0';
```

Ticket::Frontend::ZoomExpandSort

Shows the articles sorted normally or in reverse, under ticket zoom in the agent interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomExpandSort'} = 'reverse';
```

Ticket::ZoomAttachmentDisplayCount

Shows a count of icons in the ticket zoom, if the article has attachments.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ZoomAttachmentDisplayCount'} = '20';
```

Ticket::ZoomTimeDisplay

Displays the accounted time for an article in the ticket zoom view.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::ZoomTimeDisplay'} = '0';
```

Ticket::UseArticleColors

Shows colors for different article types in the article table.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::UseArticleColors'} = '1';
```

Ticket::Frontend::TicketArticleFilter

Activates the article filter in the zoom view to specify which articles should be shown.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::TicketArticleFilter'} = '0';
```

Ticket::Frontend::HTMLArticleHeightDefault

Set the default height (in pixels) of inline HTML articles in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::HTMLArticleHeightDefault'} = '100';
```

Ticket::Frontend::HTMLArticleHeightMax

Set the maximum height (in pixels) of inline HTML articles in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::HTMLArticleHeightMax'} = '2500';
```

Ticket::Frontend::MaxArticlesZoomExpand

The maximal number of articles expanded on a single page in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MaxArticlesZoomExpand'} = '400';
```

Ticket::Frontend::MaxArticlesPerPage

The maximal number of articles shown on a single page in AgentTicketZoom.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::MaxArticlesPerPage'} = '1000';
```

Ticket::Frontend::ZoomRichTextForce

Show article as rich text even if rich text writing is disabled.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomRichTextForce'} = '1';
```

Ticket::Frontend::AgentTicketZoom###DynamicField

Dynamic fields shown in the sidebar of the ticket zoom screen of the agent interface.
Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'DynamicField'} = {};
```

Ticket::Frontend::AgentTicketZoom###Widgets###0100-TicketInformation

AgentTicketZoom widget that displays ticket data in the side bar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'Widgets'}->{'0100-TicketInformation'} =
{
  'Location' => 'Sidebar',
  'Module' => 'Kernel::Output::HTML::TicketZoom::TicketInformation'
};
```

Ticket::Frontend::AgentTicketZoom###Widgets###0200-CustomerInformation

AgentTicketZoom widget that displays customer information for the ticket in the side bar.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'Widgets'}->{'0200-CustomerInformation'}
= {
  'Location' => 'Sidebar',
  'Module' => 'Kernel::Output::HTML::TicketZoom::CustomerInformation'
};
```

Ticket::Frontend::AgentTicketZoom###Widgets###0300-LinkTable

AgentTicketZoom widget that displays a table of objects linked to the ticket.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'Widgets'}->{'0300-LinkTable'} = {
  'Module' => 'Kernel::Output::HTML::TicketZoom::LinkTable'
};
```

Ticket::Frontend::ZoomCollectMeta

Whether or not to collect meta information from articles using filters configured in Ticket::Frontend::ZoomCollectMetaFilters.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomCollectMeta'} = '0';
```

Ticket::Frontend::ZoomCollectMetaFilters###CVE-Mitre

Defines a filter to collect CVE numbers from article texts in AgentTicketZoom. The results will be displayed in a meta box next to the article. Fill in URLPreview if you would like to see a preview when moving your mouse cursor above the link element. This could be the same URL as in URL, but also an alternate one. Please note that some websites deny being displayed within an iframe (e.g. Google) and thus won't work with the preview mode.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomCollectMetaFilters'}->{'CVE-Mitre'} = {
  'Meta' => {
    'Name' => 'CVE Mitre',
    'Target' => '_blank',
    'URL' => 'http://cve.mitre.org/cgi-bin/cvename.cgi?name=<MATCH1>-<MATCH2>-<MATCH3>',
    'URLPreview' => 'http://cve.mitre.org/cgi-bin/cvename.cgi?name=<MATCH1>-<MATCH2>-<MATCH3>'
  },
  'RegExp' => [
    '(CVE|CAN)\-\(\\d{3,4})\-\(\\d{2,})'
  ]
};
```

Ticket::Frontend::ZoomCollectMetaFilters###CVE-Google

Defines a filter to collect CVE numbers from article texts in AgentTicketZoom. The results will be displayed in a meta box next to the article. Fill in URLPreview if you

would like to see a preview when moving your mouse cursor above the link element. This could be the same URL as in URL, but also an alternate one. Please note that some websites deny being displayed within an iframe (e.g. Google) and thus won't work with the preview mode.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::ZoomCollectMetaFilters'}->{'CVE-Google'} = {
  'Meta' => {
    'Name' => 'CVE Google Search',
    'Target' => '_blank',
    'URL' => 'http://google.com/search?q=<MATCH1>-<MATCH2>-<MATCH3>',
    'URLPreview' => ''
  },
  'RegExp' => [
    '(CVE|CAN)\-\(\d{3,4})\-\(\d{2,})'
  ]
};
```

Ticket → Frontend::Agent::TicketOverview

Ticket::Frontend::Overview###Small

Allows having a small format ticket overview (CustomerInfo => 1 - shows also the customer information).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview'}->{'Small'} = {
  'CustomerInfo' => '1',
  'Module' => 'Kernel::Output::HTML::TicketOverview::Small',
  'ModulePriority' => '100',
  'Name' => 'Small',
  'NameShort' => 'S'
};
```

Ticket::Frontend::OverviewSmall###ColumnHeader

Shows either the last customer article's subject or the ticket title in the small format overview.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::OverviewSmall'}->{'ColumnHeader'} = 'LastCustomerSubject';
```

Ticket::Frontend::Overview###Medium

Allows having a medium format ticket overview (CustomerInfo => 1 - shows also the customer information).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview'}->{'Medium'} = {
  'CustomerInfo' => '0',
  'Module' => 'Kernel::Output::HTML::TicketOverview::Medium',
  'ModulePriority' => '200',
  'Name' => 'Medium',
  'NameShort' => 'M',
  'OverviewMenuModules' => '1',
  'TicketActionsPerTicket' => '1'
};
```

Ticket::Frontend::Overview###Preview

Shows a preview of the ticket overview (CustomerInfo => 1 - shows also Customer-Info, CustomerInfoMaxSize max. size in characters of Customer-Info).

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview'}->{'Preview'} = {
  'CustomerInfo' => '0',
  'CustomerInfoMaxSize' => '18',
  'DefaultPreViewLines' => '25',
  'DefaultViewNewLine' => '90',
  'Module' => 'Kernel::Output::HTML::TicketOverview::Preview',
  'ModulePriority' => '300',
  'Name' => 'Large',
  'NameShort' => 'L',
  'OverviewMenuModules' => '1',
  'StripEmptyLines' => '0',
  'TicketActionsPerTicket' => '1'
};
```

Ticket::Frontend::Overview::PreviewArticleSenderTypes

Defines which article sender types should be shown in the preview of a ticket.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview::PreviewArticleSenderTypes'} = {
  'agent' => '1',
  'customer' => '1',
  'system' => '1'
};
```

Ticket::Frontend::Overview::PreviewArticleLimit

Sets the count of articles visible in preview mode of ticket overviews.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview::PreviewArticleLimit'} = '5';
```

Ticket::Frontend::Overview::PreviewArticleTypeExpanded

Defines which article type should be expanded when entering the overview. If nothing defined, latest article will be expanded.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::Overview::PreviewArticleTypeExpanded'} = '';
```

Ticket::Frontend::OverviewSmall###DynamicField

Dynamic fields shown in the ticket small format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::OverviewSmall'}->{'DynamicField'} = {};
```

Ticket::Frontend::OverviewMedium###DynamicField

Dynamic fields shown in the ticket medium format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::OverviewMedium'}->{'DynamicField'} = {};
```

Ticket::Frontend::OverviewPreview###DynamicField

Dynamic fields shown in the ticket preview format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::OverviewPreview'}->{'DynamicField'} = {};
```

Ticket → Frontend::Agent::ToolBarModule

Frontend::ToolBarModule###110-Ticket::AgentTicketQueue

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'110-Ticket::AgentTicketQueue'} = {
  'AccessKey' => 'q',
  'Action' => 'AgentTicketQueue',
  'CssClass' => 'QueueView',
  'Icon' => 'fa fa-folder',
  'Link' => 'Action=AgentTicketQueue',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'Queue view',
  'Priority' => '1010010'
};
```

Frontend::ToolBarModule###120-Ticket::AgentTicketStatus

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'120-Ticket::AgentTicketStatus'} = {
  'AccessKey' => 'S',
  'Action' => 'AgentTicketStatusView',
  'CssClass' => 'StatusView',
  'Icon' => 'fa fa-list-ol',
  'Link' => 'Action=AgentTicketStatusView',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'Status view',
  'Priority' => '1010020'
};
```

Frontend::ToolBarModule###130-Ticket::AgentTicketEscalation

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'130-Ticket::AgentTicketEscalation'} = {
  'AccessKey' => 'w',
  'Action' => 'AgentTicketEscalationView',
  'CssClass' => 'EscalationView',
  'Icon' => 'fa fa-exclamation',
  'Link' => 'Action=AgentTicketEscalationView',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'Escalation view',
  'Priority' => '1010030'
};
```

Frontend::ToolBarModule###140-Ticket::AgentTicketPhone

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'140-Ticket::AgentTicketPhone'} = {
  'AccessKey' => '',
  'Action' => 'AgentTicketPhone',
  'CssClass' => 'PhoneTicket',
  'Icon' => 'fa fa-phone',
  'Link' => 'Action=AgentTicketPhone',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'New phone ticket',
  'Priority' => '1020010'
};
```

Frontend::ToolBarModule###150-Ticket::AgentTicketEmail

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'150-Ticket::AgentTicketEmail'} = {
  'AccessKey' => '',
  'Action' => 'AgentTicketEmail',
  'CssClass' => 'EmailTicket',
  'Icon' => 'fa fa-envelope',
  'Link' => 'Action=AgentTicketEmail',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'New email ticket',
  'Priority' => '1020020'
};
```

Frontend::ToolBarModule###160-Ticket::AgentTicketProcess

Toolbar Item for a shortcut. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'160-Ticket::AgentTicketProcess'} = {
  'AccessKey' => '',
  'Action' => 'AgentTicketProcess',
  'CssClass' => 'ProcessTicket',
  'Icon' => 'fa fa-th-large',
  'Link' => 'Action=AgentTicketProcess',
  'Module' => 'Kernel::Output::HTML::ToolBar::Link',
  'Name' => 'New process ticket',
  'Priority' => '1020030'
};
```

Frontend::ToolBarModule###170-Ticket::TicketResponsible

Agent interface notification module to see the number of tickets an agent is responsible for. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'170-Ticket::TicketResponsible'} = {
  'AccessKey' => 'r',
  'AccessKeyNew' => '',
  'AccessKeyReached' => '',
  'CssClass' => 'Responsible',
  'CssClassNew' => 'Responsible New',
  'CssClassReached' => 'Responsible Reached',
  'Icon' => 'fa fa-user',
  'IconNew' => 'fa fa-user',
  'IconReached' => 'fa fa-user',
  'Module' => 'Kernel::Output::HTML::ToolBar::TicketResponsible',
};
```

```
'Priority' => '1030010'
};
```

Frontend::ToolBarModule###180-Ticket::TicketWatcher

Agent interface notification module to see the number of watched tickets. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'180-Ticket::TicketWatcher'} = {
  'AccessKey' => '',
  'AccessKeyNew' => '',
  'AccessKeyReached' => '',
  'CssClass' => 'Watcher',
  'CssClassNew' => 'Watcher New',
  'CssClassReached' => 'Watcher Reached',
  'Icon' => 'fa fa-eye',
  'IconNew' => 'fa fa-eye',
  'IconReached' => 'fa fa-eye',
  'Module' => 'Kernel::Output::HTML::ToolBar::TicketWatcher',
  'Priority' => '1030020'
};
```

Frontend::ToolBarModule###190-Ticket::TicketLocked

Agent interface notification module to see the number of locked tickets. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'190-Ticket::TicketLocked'} = {
  'AccessKey' => 'k',
  'AccessKeyNew' => '',
  'AccessKeyReached' => '',
  'CssClass' => 'Locked',
  'CssClassNew' => 'Locked New',
  'CssClassReached' => 'Locked Reached',
  'Icon' => 'fa fa-lock',
  'IconNew' => 'fa fa-lock',
  'IconReached' => 'fa fa-lock',
  'Module' => 'Kernel::Output::HTML::ToolBar::TicketLocked',
  'Priority' => '1030030'
};
```

Frontend::ToolBarModule###200-Ticket::AgentTicketService

Agent interface notification module to see the number of tickets in My Services. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'200-Ticket::AgentTicketService'} = {
  'CssClass' => 'ServiceView',
  'Icon' => 'fa fa-wrench',
  'Module' => 'Kernel::Output::HTML::ToolBar::TicketService',
  'Priority' => '1030035'
};
```

Frontend::ToolBarModule###210-Ticket::TicketSearchProfile

Agent interface module to access search profiles via nav bar. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'210-Ticket::TicketSearchProfile'} = {
  'Block' => 'ToolBarSearchProfile',
  'Description' => 'Search template',
  'MaxWidth' => '40',
  'Module' => 'Kernel::Output::HTML::ToolBar::TicketSearchProfile',
  'Name' => 'Search template',
  'Priority' => '1990010'
};
```

Frontend::ToolBarModule###220-Ticket::TicketSearchFulltext

Agent interface module to access fulltext search via nav bar. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'220-Ticket::TicketSearchFulltext'} = {
  'Block' => 'ToolBarSearchFulltext',
  'CSS' => 'Core.Agent.Toolbar.FulltextSearch.css',
  'Description' => 'Fulltext search',
  'Module' => 'Kernel::Output::HTML::ToolBar::Generic',
  'Name' => 'Fulltext search',
  'Priority' => '1990020',
  'Size' => '10'
};
```

Frontend::ToolBarModule###230-CICSearchCustomerID

Agent interface module to access CIC search via nav bar. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'230-CICSearchCustomerID'} = {
  'Block' => 'ToolBarCICSearchCustomerID',
  'CSS' => 'Core.Agent.Toolbar.CICSearch.css',
  'Description' => 'CustomerID search',
  'Module' => 'Kernel::Output::HTML::ToolBar::Generic',
  'Name' => 'CustomerID search',
  'Priority' => '1990030',
  'Size' => '10'
};
```

Frontend::ToolBarModule###240-CICSearchCustomerUser

Agent interface module to access CIC search via nav bar. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::ToolBarModule'}->{'240-CICSearchCustomerUser'} = {
  'Block' => 'ToolBarCICSearchCustomerUser',
  'CSS' => 'Core.Agent.Toolbar.CICSearch.css',
  'Description' => 'Customer user search',
  'Module' => 'Kernel::Output::HTML::ToolBar::Generic',
  'Name' => 'Customer user search',
  'Priority' => '1990040',
  'Size' => '10'
};
```

Ticket → Frontend::Customer

Ticket::Frontend::CustomerDisableCompanyTicketAccess

This option will deny the access to customer company tickets, which are not created by the customer user.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerDisableCompanyTicketAccess'} = '0';
```

Ticket::Frontend::CustomerTicketOverviewCustomEmptyText

Custom text for the page shown to customers that have no tickets yet (if you need those text translated add them to a custom translation module).

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverviewCustomEmptyText'} = {
  'Button' => 'Create your first ticket',
  'Text' => 'Please click the button below to create your first ticket.',
  'Title' => 'Welcome!'
};
```

Frontend::CustomerUser::Item###15-OpenTickets

Customer item (icon) which shows the open tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'15-OpenTickets'} = {
  'Action' => 'AgentTicketSearch',
  'Attributes' => 'StateType=Open;',
  'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css',
  'CSSClassNoOpenTicket' => 'NoOpenTicket',
  'CSSClassOpenTicket' => 'OpenTicket',
  'CustomerUserLogin' => '0',
  'IconNameNoOpenTicket' => 'fa-check-circle',
  'IconNameOpenTicket' => 'fa-exclamation-circle',
  'Module' => 'Kernel::Output::HTML::CustomerUser::GenericTicket',
  'Subaction' => 'Search',
  'Target' => '_blank',
  'Text' => 'Open tickets (customer)'
};
```

Frontend::CustomerUser::Item###16-OpenTicketsForCustomerUserLogin

Customer item (icon) which shows the open tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'16-OpenTicketsForCustomerUserLogin'} = {
  'Action' => 'AgentTicketSearch',
  'Attributes' => 'StateType=Open;',
  'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css',
  'CSSClassNoOpenTicket' => 'NoOpenTicket',
  'CSSClassOpenTicket' => 'OpenTicket',
  'CustomerUserLogin' => '1',
  'IconNameNoOpenTicket' => 'fa-check-circle',
  'IconNameOpenTicket' => 'fa-exclamation-circle',
  'Module' => 'Kernel::Output::HTML::CustomerUser::GenericTicket',
};
```



```
'Subaction' => 'Search',
'Target' => '_blank',
'Text' => 'Open tickets (customer user)'
};
```

Frontend::CustomerUser::Item###17-ClosedTickets

Customer item (icon) which shows the closed tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'17-ClosedTickets'} = {
  'Action' => 'AgentTicketSearch',
  'Attributes' => 'StateType=Closed;',
  'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css',
  'CSSClassNoOpenTicket' => 'NoOpenTicket',
  'CSSClassOpenTicket' => 'OpenTicket',
  'CustomerUserLogin' => '0',
  'IconNameNoOpenTicket' => 'fa-power-off',
  'IconNameOpenTicket' => 'fa-power-off',
  'Module' => 'Kernel::Output::HTML::CustomerUser::GenericTicket',
  'Subaction' => 'Search',
  'Target' => '_blank',
  'Text' => 'Closed tickets (customer)'
};
```

Frontend::CustomerUser::Item###18-ClosedTicketsForCustomerUserLogin

Customer item (icon) which shows the closed tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Frontend::CustomerUser::Item'}->{'18-ClosedTicketsForCustomerUserLogin'} = {
  'Action' => 'AgentTicketSearch',
  'Attributes' => 'StateType=Closed;',
  'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css',
  'CSSClassNoOpenTicket' => 'NoOpenTicket',
  'CSSClassOpenTicket' => 'OpenTicket',
  'CustomerUserLogin' => '1',
  'IconNameNoOpenTicket' => 'fa-power-off',
  'IconNameOpenTicket' => 'fa-power-off',
  'Module' => 'Kernel::Output::HTML::CustomerUser::GenericTicket',
  'Subaction' => 'Search',
  'Target' => '_blank',
  'Text' => 'Closed tickets (customer user)'
};
```

CustomerFrontend::CommonParam###Action

Defines the default used Frontend-Module if no Action parameter given in the url on the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::CommonParam'}->{'Action'} = 'CustomerTicketOverview';
```

CustomerFrontend::CommonParam###TicketID

Default ticket ID used by the system in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::CommonParam'}->{'TicketID'} = '';
```

Ticket → Frontend::Customer::ModuleMetaHead

CustomerFrontend::HeaderMetaModule###2-TicketSearch

Module to generate html OpenSearch profile for short ticket search in the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::HeaderMetaModule'}->{'2-TicketSearch'} = {
  'Action' => 'CustomerTicketSearch',
  'Module' => 'Kernel::Output::HTML::HeaderMeta::CustomerTicketSearch'
};
```

Ticket → Frontend::Customer::ModuleRegistration

CustomerFrontend::Module###CustomerTicketOverview

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerFrontend::Module'}->{'CustomerTicketOverview'} = {
  'Description' => 'Overview of customer tickets.',
  'NavBar' => [
    {
      'AccessKey' => 'm',
      'Block' => '',
      'Description' => 'Tickets.',
      'Link' => 'Action=CustomerTicketOverview;Subaction=MyTickets',
      'LinkOption' => '',
      'Name' => 'Tickets',
      'NavBar' => 'Ticket',
      'Prio' => '100',
      'Type' => 'Menu'
    },
    {
      'AccessKey' => '',
      'Block' => '',
      'Description' => 'My Tickets.',
      'Link' => 'Action=CustomerTicketOverview;Subaction=MyTickets',
      'LinkOption' => '',
      'Name' => 'My Tickets',
      'NavBar' => 'Ticket',
      'Prio' => '110',
      'Type' => 'Submenu'
    },
    {
      'AccessKey' => 'M',
      'Block' => '',
      'Description' => 'Company Tickets.',
      'Link' => 'Action=CustomerTicketOverview;Subaction=CompanyTickets',
      'LinkOption' => '',
      'Name' => 'Company Tickets',
      'NavBar' => 'Ticket',
      'Prio' => '120',
      'Type' => 'Submenu'
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Overview'
};
```

CustomerFrontend::Module###CustomerTicketMessage

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```

$Self->{'CustomerFrontend::Module'}->{'CustomerTicketMessage'} = {
  'Description' => 'Create tickets.',
  'Loader' => {
    'JavaScript' => [
      'Core.Customer.TicketMessage.js'
    ]
  },
  'NavBar' => [
    {
      'AccessKey' => 'n',
      'Block' => '',
      'Description' => 'Create new Ticket.',
      'Link' => 'Action=CustomerTicketMessage',
      'LinkOption' => '',
      'Name' => 'New Ticket',
      'NavBar' => 'Ticket',
      'Prio' => '100',
      'Type' => 'Submenu'
    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'New Ticket'
};

```

CustomerFrontend::Module###CustomerTicketZoom

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```

$Self->{'CustomerFrontend::Module'}->{'CustomerTicketZoom'} = {
  'Description' => 'Ticket zoom view.',
  'Loader' => {
    'JavaScript' => [
      'Core.Customer.TicketZoom.js',
      'Core.UI.Popup.js'
    ]
  },
  'NavBarName' => 'Ticket',
  'Title' => 'Zoom'
};

```

CustomerFrontend::Module###CustomerTicketPrint

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```

$Self->{'CustomerFrontend::Module'}->{'CustomerTicketPrint'} = {
  'Description' => 'Customer Ticket Print Module.',
  'NavBarName' => '',
  'Title' => 'Print'
};

```

CustomerFrontend::Module###CustomerTicketAttachment

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```

$Self->{'CustomerFrontend::Module'}->{'CustomerTicketAttachment'} = {
  'Description' => 'To download attachments.',
  'NavBarName' => '',
  'Title' => ''
};

```

CustomerFrontend::Module###CustomerTicketSearch

Frontend module registration for the customer interface.

Thamani chaguo-msingi:

```

$Self->{'CustomerFrontend::Module'}->{'CustomerTicketSearch'} = {

```

```
'Description' => 'Customer ticket search.',
'Loader' => {
  'JavaScript' => [
    'Core.Customer.TicketSearch.js'
  ]
},
'NavBar' => [
  {
    'AccessKey' => 's',
    'Block' => '',
    'Description' => 'Search.',
    'Link' => 'Action=CustomerTicketSearch',
    'LinkOption' => '',
    'Name' => 'Search',
    'NavBar' => 'Ticket',
    'Prio' => '300',
    'Type' => 'Submenu'
  }
],
'NavBarName' => 'Ticket',
'Title' => 'Search'
};
```

Ticket → Frontend::Customer::Preferences

CustomerPreferencesGroups###ShownTickets

Defines all the parameters for the ShownTickets object in the customer preferences of the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'ShownTickets'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Data' => {
    '15' => '15',
    '20' => '20',
    '25' => '25',
    '30' => '30'
  },
  'DataSelected' => '25',
  'Key' => 'Tickets per page',
  'Label' => 'Number of displayed tickets',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserShowTickets',
  'Prio' => '4000'
};
```

CustomerPreferencesGroups###RefreshTime

Defines all the parameters for the RefreshTime object in the customer preferences of the customer interface.

Thamani chaguo-msingi:

```
$Self->{'CustomerPreferencesGroups'}->{'RefreshTime'} = {
  'Active' => '1',
  'Column' => 'User Profile',
  'Data' => {
    '0' => 'off',
    '10' => '10 minutes',
    '15' => '15 minutes',
    '2' => ' 2 minutes',
    '5' => ' 5 minutes',
    '7' => ' 7 minutes'
  },
  'DataSelected' => '0',
  'Key' => 'Refresh interval',
  'Label' => 'Ticket overview',
  'Module' => 'Kernel::Output::HTML::Preferences::Generic',
  'PrefKey' => 'UserRefreshTime',
};
```

```
'Prio' => '4000'
};
```

Ticket → Frontend::Customer::Ticket::ViewNew

Ticket::Frontend::CustomerTicketMessage###NextScreenAfterNewTicket

Determines the next screen after new customer ticket in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'NextScreenAfterNewTicket'} =
'CustomerTicketOverview';
```

Ticket::Frontend::CustomerTicketMessage###Priority

Allows customers to set the ticket priority in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Priority'} = '1';
```

Ticket::Frontend::CustomerTicketMessage###PriorityDefault

Defines the default priority of new customer tickets in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::CustomerTicketMessage###Queue

Allows customers to set the ticket queue in the customer interface. If this is set to 'No', QueueDefault should be configured.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Queue'} = '1';
```

Ticket::Frontend::CustomerTicketMessage###QueueDefault

Defines the default queue for new customer tickets in the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'QueueDefault'} = 'Postmaster';
```

Ticket::Frontend::CustomerTicketMessage###TicketType

Allows customers to set the ticket type in the customer interface. If this is set to 'No', TicketTypeDefault should be configured.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'TicketType'} = '1';
```

Ticket::Frontend::CustomerTicketMessage###TicketTypeDefault

Defines the default ticket type for new customer tickets in the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'TicketTypeDefault'} =  
'Unclassified';
```

Ticket::Frontend::CustomerTicketMessage###Service

Allows customers to set the ticket service in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Service'} = '1';
```

Ticket::Frontend::CustomerTicketMessage###SLA

Allows customers to set the ticket SLA in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SLA'} = '1';
```

Ticket::Frontend::CustomerTicketMessage###ServiceMandatory

Sets if service must be selected by the customer.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'ServiceMandatory'} = '0';
```

Ticket::Frontend::CustomerTicketMessage###SLAMandatory

Sets if SLA must be selected by the customer.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SLAMandatory'} = '0';
```

Ticket::Frontend::CustomerTicketMessage###StateDefault

Defines the default state of new customer tickets in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'StateDefault'} = 'new';
```

Ticket::Frontend::CustomerTicketMessage###ArticleType

Defines the default type for article in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'ArticleType'} = 'webrequest';
```

Ticket::Frontend::CustomerTicketMessage###SenderType

Sender type for new tickets from the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SenderType'} = 'customer';
```

Ticket::Frontend::CustomerTicketMessage###HistoryType

Defines the default history type in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'HistoryType'} = 'WebRequestCustomer';
```

Ticket::Frontend::CustomerTicketMessage###HistoryComment

Comment for new history entries in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'HistoryComment'} = '';
```

CustomerPanelSelectionType

Defines the recipient target of the tickets ("Queue" shows all queues, "SystemAddress" shows only the queues which are assigned to system addresses) in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSelectionType'} = 'Queue';
```

CustomerPanelSelectionString

Determines the strings that will be shown as recipient (To:) of the ticket in the customer interface. For Queue as CustomerPanelSelectionType, "<Queue>" shows the names of the queues, and for SystemAddress, "<Realname> <<Email>>" shows the name and email of the recipient.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelSelectionString'} = '<Queue>';
```

CustomerPanelOwnSelection

Determines which queues will be valid for ticket's recipients in the customer interface.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanelOwnSelection'} = {
  'Junk' => 'First Queue',
  'Misc' => 'Second Queue'
};
```

CustomerPanel::NewTicketQueueSelectionModule

Module for To-selection in new ticket screen in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'CustomerPanel::NewTicketQueueSelectionModule'} = 'Kernel::Output::HTML::CustomerNewTicket::QueueSelectionGeneric';
```

Ticket::Frontend::CustomerTicketMessage###DynamicField

Dynamic fields options shown in the ticket message screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required. NOTE. If you

want to display these fields also in the ticket zoom of the customer interface, you have to enable them in CustomerTicketZoom###DynamicField.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'DynamicField'} = {};
```

Ticket → Frontend::Customer::Ticket::ViewPrint

Ticket::Frontend::CustomerTicketPrint###DynamicField

Dynamic fields shown in the ticket print screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketPrint'}->{'DynamicField'} = {};
```

Ticket → Frontend::Customer::Ticket::ViewSearch

Ticket::CustomerTicketSearch::SearchLimit

Maximum number of tickets to be displayed in the result of a search in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomerTicketSearch::SearchLimit'} = '5000';
```

Ticket::CustomerTicketSearch::SearchPageShown

Number of tickets to be displayed in each page of a search result in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomerTicketSearch::SearchPageShown'} = '40';
```

Ticket::CustomerTicketSearch::SortBy::Default

Defines the default ticket attribute for ticket sorting in a ticket search of the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomerTicketSearch::SortBy::Default'} = 'Age';
```

Ticket::CustomerTicketSearch::Order::Default

Defines the default ticket order of a search result in the customer interface. Up: oldest on top. Down: latest on top.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::CustomerTicketSearch::Order::Default'} = 'Down';
```

Ticket::Frontend::CustomerTicketSearch###ExtendedSearchCondition

Allows extended search conditions in ticket search of the customer interface. With this feature you can search e. g. with this kind of conditions like "(key1&&key2)" or "(key1||key2)".

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'ExtendedSearchCondition'} = '1';
```

Customer::TicketSearch::AllServices

If enabled, the customer can search for tickets in all services (regardless what services are assigned to the customer).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Customer::TicketSearch::AllServices'} = '0';
```

Ticket::Frontend::CustomerTicketSearch###SearchArticleCSVTree

Exports the whole article tree in search result (it can affect the system performance).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchArticleCSVTree'} = '0';
```

Ticket::Frontend::CustomerTicketSearch###SearchCSVData

Data used to export the search result in CSV format.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchCSVData'} = [
    'TicketNumber',
    'Age',
    'Created',
    'Closed',
    'State',
    'Priority',
    'Lock',
    'CustomerID',
    'CustomerName',
    'From',
    'Subject'
];
```

Ticket::Frontend::CustomerTicketSearch###DynamicField

Dynamic fields shown in the ticket search screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'DynamicField'} = {};
```

Ticket::Frontend::CustomerTicketSearch###SearchOverviewDynamicField

Dynamic fields shown in the ticket search overview results screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchOverviewDynamicField'} = {};
```

Ticket::Frontend::CustomerTicketSearch###SearchCSVDynamicField

Dynamic Fields used to export the search result in CSV format.

Thamani chaguo-msingi:


```
$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchCSVDynamicField'} = {};
```

Ticket → Frontend::Customer::Ticket::ViewZoom

Ticket::Frontend::CustomerTicketZoom###NextScreenAfterFollowUp

Determines the next screen after the follow-up screen of a zoomed ticket in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'NextScreenAfterFollowUp'} = 'CustomerTicketOverview';
```

Ticket::Frontend::CustomerTicketZoom###ArticleType

Defines the default type of the note in the ticket zoom screen of the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'ArticleType'} = 'webrequest';
```

Ticket::Frontend::CustomerTicketZoom###SenderType

Defines the default sender type for tickets in the ticket zoom screen of the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'SenderType'} = 'customer';
```

Ticket::Frontend::CustomerTicketZoom###HistoryType

Defines the history type for the ticket zoom action, which gets used for ticket history in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryType'} = 'FollowUp';
```

Ticket::Frontend::CustomerTicketZoom###HistoryComment

Defines the history comment for the ticket zoom action, which gets used for ticket history in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryComment'} = '';
```

Ticket::Frontend::CustomerTicketZoom###Priority

Allows customers to change the ticket priority in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'Priority'} = '1';
```

Ticket::Frontend::CustomerTicketZoom###PriorityDefault

Defines the default priority of follow-up customer tickets in the ticket zoom screen in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'PriorityDefault'} = '3 normal';
```

Ticket::Frontend::CustomerTicketZoom###State

Allows choosing the next compose state for customer tickets in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'State'} = '1';
```

Ticket::Frontend::CustomerTicketZoom###StateDefault

Defines the default next state for a ticket after customer follow-up in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'StateDefault'} = 'open';
```

Ticket::Frontend::CustomerTicketZoom###StateType

Defines the next possible states for customer tickets in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'StateType'} = [
  'open',
  'closed'
];
```

Ticket::Frontend::CustomerTicketZoom###AttributesView

Shows the activated ticket attributes in the customer interface (0 = Disabled and 1 = Enabled).

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'AttributesView'} = {
  'Owner' => '0',
  'Priority' => '1',
  'Queue' => '1',
  'Responsible' => '0',
  'SLA' => '0',
  'Service' => '0',
  'State' => '1',
  'Type' => '0'
};
```

Ticket::Frontend::CustomerTicketZoom###DynamicField

Dynamic fields shown in the ticket zoom screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'DynamicField'} = {};
```

Ticket::Frontend::CustomerTicketZoom###FollowUpDynamicField

Dynamic fields options shown in the ticket reply section in the ticket zoom screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'FollowUpDynamicField'} = {};
```

Ticket → Frontend::Customer::TicketOverview

Ticket::Frontend::CustomerTicketOverviewSortable

Controls if customers have the ability to sort their tickets.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverviewSortable'} = '';
```

Ticket::Frontend::CustomerTicketOverview###ColumnHeader

Shows either the last customer article's subject or the ticket title in the small format overview.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'ColumnHeader'} = 'TicketTitle';
```

Ticket::Frontend::CustomerTicketOverview###Owner

Show the current owner in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'Owner'} = '0';
```

Ticket::Frontend::CustomerTicketOverview###Queue

Show the current queue in the customer interface.

This setting can not be deactivated.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'Queue'} = '0';
```

Ticket::Frontend::CustomerTicketOverview###DynamicField

Dynamic fields shown in the ticket overview screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Thamani chaguo-msingi:

```
$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'DynamicField'} = {};
```

Ticket → Frontend::Queue::Preferences

QueuePreferences###Comment2

Parameters of the example queue attribute Comment2.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'QueuePreferences'}->{'Comment2'} = {
```

```
'Block' => 'TextArea',
'Cols' => '50',
'Desc' => 'Define the queue comment 2.',
'Label' => 'Comment2',
'Module' => 'Kernel::Output::HTML::QueuePreferences::Generic',
'PrefKey' => 'Comment2',
'Rows' => '5'
};
```

Ticket → Frontend::SLA::Preferences

SLAPreferences###Comment2

Parameters of the example SLA attribute Comment2.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'SLAPreferences'}->{'Comment2'} = {
'Block' => 'TextArea',
'Cols' => '50',
'Desc' => 'Define the sla comment 2.',
'Label' => 'Comment2',
'Module' => 'Kernel::Output::HTML::SLAPreferences::Generic',
'PrefKey' => 'Comment2',
'Rows' => '5'
};
```

Ticket → Frontend::Service::Preferences

ServicePreferences###Comment2

Parameters of the example service attribute Comment2.

This setting is not active by default.

Thamani chaguo-msingi:

```
$Self->{'ServicePreferences'}->{'Comment2'} = {
'Block' => 'TextArea',
'Cols' => '50',
'Desc' => 'Define the service comment 2.',
'Label' => 'Comment2',
'Module' => 'Kernel::Output::HTML::ServicePreferences::Generic',
'PrefKey' => 'Comment2',
'Rows' => '5'
};
```

Appendix C. Leseni ya Nyaraka Huru ya GNU

Toleo 1.1, Machi 2000

Hakimiliki (C) 2000 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Kila mtu anaruhusiwa kuchukua nakala na kusambaza nakala za maneno yale yale za leseni ya nyaraka hii lakini kubadilisha hairuhusiwi.

0. UTANGULIZI

Lengo la hii Leseni ni kutengeneza mwongozo, daftari, au nyaraka nyingine iliyoandikwa "huru" katika hali ya uhuru: kumhakikishia kila mtu uhuru wa kunakili na kuisambaza upya, bila au kwa kuibadilisha, kwa biashara au sio kwa biashara. Kwa hali ya juu zaidi, hii Leseni inahifadhi kwa ajili ya mwandishi na mchapishaji jinsi ya kupata sifa kwa kazi zao, na sio kuonekana wahusika wa kubadili kaziza wengine.

Hii Leseni ni aina ya "nakilikushoto", ambayo inamaanisha kwamba kazi zitokanazo na nyaraka lazima nazo ziwe huru katika hali hiyo hiyo. Inaongezea kwenye GNU General Public Licence, ambayo ni leseni ya nakalakushoto iliyoundwa kwa ajili ya programu za bure.

Tumeunda hii leseni ili kuweza kuitumia kwa ajili ya miongozo ya programu za bure, kwa sababau programu za bure zinahitaji nyaraka za bure: programu ya bure lazima ije na miongozo inayotoa uhuru sawa na ule unaotolewa na programu. Lakini hii leseni haina kikomo kwa miongozo ya programu; inaweza kutumika kwa ajili ya kazi zozote za nakala, bila kujali mada au kwamba inachapishwa kama kitabu. Tunashauri hii leseni kwa kazi ambazo lengo lake ni maelekezo au marejeo.

1. UTUMIKAJI NA FASILI

Leseni inafanya kazi kwa mwongozo wowote au kazi nyingine ambayo ina notisi iliyowekwa na mmiliki wa hakimiliki inayosema inaweza kusambazwa chini ya makubaiano ya Leseni hii. "Waraka", hapa chini, unaashiria mwongozo wowote au kazi. Mwanachama yoyote wa umma ni mmiliki wa leseni, na anaitwa "wewe".

"Toleo Lililobadilishwa" la Nyaraka inamaanisha kazi yoyote yenye Nyaraka au sehemu yake, aidha nakala isiyobadilishwa, au yenye mabadiliko na/au iliyotafsiriwa kwenda lugha nyingine.

"Kifungu cha Sekondari" ni kiambatanisho kilichopewa jina au kifungu cha mambo ya mbele ya nyaraka, inayohusika kipekee na uhusiano wa mchapishaji au mwandishi wa nyaraka na kichwa cha habari cha ujumla cha nyaraka (au kwa mambo yanayohusiana), na haina kitu ambacho kinaweza kuingia moja kwa moja ndani ya kichwa cha habari cha ujumla. (Kwa Mfano, kama Nyaraka ni sehemu ya kitabu cha hisabati, Kifungu cha Sekondari hakiwezi kuelezea hesabu yoyote.) Uhusiano huo unaweza kuwa wa muunganiko wa kihistoria au mambo yanayohusika, au sheria, biashara, falsafa, maadili au nafasi ya siasa inayohusiana nazo.

"Vifungu Visivyoathirika" ni Vifungu fulani vya Sekondari ambavyo vichwa vyao vimeteuliwa, kama vile vya Vifungu Visivyoathirika, katika notisi isemayo nyaraka imetolewa chini ya Leseni hii.

"Nakala za Jalada" ni vifungu vifupi vya maneno ambavyo vimeorodheshwa, kama Nakala za Mbele za Jalada au Nakala za Nyuma za Jalada, katika notisi inayosema Nyaraka imetolewa chini ya Leseni hii.

Naka "Angavu" ya Nyaraka inamaanisha nakala inayoweza kusomwa na mashine, inayowakilishwa katika umbo ambalo ubainishwaji wake unapatikana kwa umma kwa ujumla, ambao maudhui yake yanaweweza kuonekana na kuhaririwa moja kwa moja na kwa urahisi kwa kutumia vihariri vya nakala za ujumla au (kwa ajili ya taswira zilizojengwa na pikseli) programu za uchoraji za ujumla au (kwa ajili ya michoro) baadhi ya vihariri vya michoro vinavyopatikana kirahisi, na ambavyo vinafaa kwa ajili ya ingizo la nakala kwenye vinavyoandaa umbizo au kwa ajili ya tafsiri otomatiki kwa maumbo mbali mbali, vinavyofaa kwa ajili ya ingizo la viandaa umbizo la nakala. Nakala iliyotengenezwa katika faili lenye umbizo Angavu, ambalo dhulisho mabadiliko yake imeundwa kuzuia au kukatisha tamaa maboresho ya wasomaji sio Angavu. Nakala ambayo siyo "Angavu" inaitwa "Isiyo angavu".

Mifano ya maumbo yanayofaa kwa ajili ya nakala Angavu inajumuisha: ASCII wazi bila dhulisho mabadiliko, umbizo la maingizo la Texinfo, umbizo la maingizo la LaTeX, SGML au XML kwa kutumia DTD inayopatikana kwa umma, na HTML ya kawaida iliyoundwa kwa ajili ya mabadiliko ya mwanadamu. Maumbo yasiyo angavu yanajumuisha: PostScript, PDF, maumbo binafsi ambayo yanaweza kusomwa na kuhaririwa na vichakatishi vya maneno binafsi tu, SGML au XML ambazo DTD na/au vifaa vya uchakatishaji havipatikani kwa ujumla, na HTML zinazozalishwa na mashine zinazotengenezwa na baadhi ya vichakatishi maneno kwa ajili ya matokeo tu.

"Ukurasa wa mbele" inamaanisha, kwa kitabu kilichochapishwa, ukurasa wa mbele wenyewe, kujumuisha na kurasa zinazofwata kama zinavyohitajika kushikilia, kusomwa, vitu ambavyo hii Leseni inahitaji vionekane kwenye ukurasa wa mbele. Kwa kazi zenye maumbo ambayo hayana ukurasa wa mbele wowote kama huu, "Ukurasa wa Mbele" inamaanisha nakala karibu ya muonekano muhimu wa kichwa cha habari cha kazi, kabla ya mwanzo wa kiini cha nakala.

2. KUNAKILI BILA KUBADILISHA KITU

Unaweza kunakili na kusambaza waraka kwa njia yoyote, aidha kwa biashara au sio kwa biashara, ukizingatia kwamba hii Leseni, notisi za hakimiliki, na notisi za leseni zinasema hii Leseni inafanya kazi kwa waraka huu inakuwepo kwa kila nakala, na huongezi masharti mengine yoyote kwa yale yaliyopo kwenye hii Leseni. Hutakiwi kutumia vipimo vya kiu-fundi kuzuia au kudhibiti usomaji au utengenezaji wa nakala zingine zaidi ya zile ulizotengeneza au kusambaza. Hata hivyo unaweza kupokea fidia kwa ajili ya nakala. Kama ukisambaza idadi ya kutosha ya nakala pia ni lazima ufuata masharti katika kifungu cha 3.

Unaweza pia kuazima nakala, chini ya masharti sawa na yaliyosemwa juu, na unaweza kuonyesha kwa umma.

3. KUNAKILI KATIKA IDADI

Kama ukichapisha nakala za Nyaraka zenye idadi zaidi ya 100, na notisi ya leseni ya nyaraka inahitaji Nakala za Jalada, unatakiwa kujumuisha nakala zinazobeba, zinazosomeka na kuonekana kwa urahisi, Nakala za jalada zote hizi: Nakala za Jalada la Mbele katika jalada la mbele, na Nakala za Jalada la nyuma kwenye jalada la nyuma. Majalada yote lazima yaonyeshe kiurahisi na kwa kusomeka kwamba wewe ndiyo mchapishaji wa hizi nakala. Jalada la mbele lazima lionyeshe kichwa cha habari kizima chenye maneno yote yenye usawa na kuonekana. Unaweza kuongeza vitu vingine kwenye jalada kwa nyongeza. Kunakili na mabadiliko yenye kikomo kwa jalada, ikiwa tu zinahifadhi kichwa cha habari cha nyaraka na kuridhisha masharti haya, inaweza kuchukuliwa kama kunakili bila mabadiliko kwa upande mwingine.

Kama nakala zinazotakiwa kwa ajili ya majalada yote ni nyingi sana ili kutosha vizuri, unatakiwa kuweka za kwanza zikiwa zimeorodheshwa (nyingi kadri zitakavyotosha) katika jalada halisi, na kuendelea na zinazofwata katika kurasa za karibu.

Kama ukichapisha au kusambaza nakala Zisizo Angavu za Nyaraka idadi zaidi ya 100, lazima aidha ujumuishe nakala Angavu isomwayo na mashine pamoja na nakala Isiyo Angavu, au tamka kwenye au kwa kila nakala Isiyo Angavu eneo linalofikika na umma la mtandao wa kompyuta, lenye nakala kamili Angavu ya Nyaraka, isiyokuwa na nyongeza yoyote, ambayo mtandao wa ujumla wa umma una uwezo wa kupakua bila kujulikana, bila gharama yoyote, kwa kutumia kanuni za kawaida za mtandao wa umma. Kama ukitumia chaguo la mwisho, lazima uchukue hatua kwa uangalifu, ukianza usambazaji wa nakala Zisizo Angavu kwa idadi, kuhakikisha hii nakala Angavu itabakia ikipatikana katika eneo tajwa, mpaka angalau mwaka mmoja tangu mara ya mwisho umegawa nakala Isiyo Angavu (mwenyewe au kupitia mawakala wako au wauzaji wa rejareja) wa toleo hilo kwa umma.

Inaombwa na sio lazima, kwamba uwasiliane na waandishi wa nyaraka kabla ya kusambaza upya idadi kubwa ya nakala, kuwapa nafsi ya kukupa toleo lililosasishwa la nyaraka.

4. MABADILIKO

Unaweza kunakili na kusambaza Toleo Lililobadilishwa la Nyaraka chini ya masharti ya kifungu 2 na 3 juu, ikiwa kwamba unatoa Toleo Lililobadilishwa chini ya Leseni hii, na Toleo Lililobadilishwa likichukua jukumu la Nyaraka, hivyo usambazaji wa leseni na ubadilishaji wa Toleo Lililobadilishwa kwa yoyote anaemiliki nakala yake. Kwa zaidi, unatakiwa kufanya haya mambo kwenye Toleo Lililobadilishwa.

- A. Tumia katika Ukurasa wa Mada (na kwenye majalada kama yapo) mada tofauti kutoika ile ya Nyaraka, na zile za matoleo ya nyuma (ambazo zinatakiwa, kama zilikuwepo kuorodheshwa katika kifungu cha Historia cha Nyaraka). Unaweza kutumia mada sawa na ya toleo la nyuma kama mchapishaji halisi wa toleo hilo akitoa ruhusa.
- B. Orodha kwenye Ukurasa wa Mbele, kama waandishi, mtu mmoja au zaidi au vyombo vilivyohusika na uandishi wa mabadiliko katika Matoleo Mapya, pamoja na japo waandishi wakuu watano wa Nyaraka (waandishi wakuu wote, kama ina chini ya watano).
- C. Tamka katika ukurasa wa mbele jina la mchapishaji wa Toleo Lililobadilishwa, kama mchapishaji.
- D. Hifadhi notisi za hakimiliki zote za Nyaraka.
- E. Ongeza notisi sahihi ya hakimiliki kwa mabadiliko yake karibu na na notisi nyingine za hakimiliki.
- F. Jumuishwa, baada tu ya notisi za hakimiliki, notisi ya leseni kuupa umma ruhusa ya kutumia Toleo Lililobadilishwa chini ya sheria za Leseni, katika mfumo ulioonyeshwa katika kiambatanisho chini.
- G. Hifadhi katika notisi hiyo ya leseni orodha kamili ya Vifungu Visivyoathirika na Nakala za Jalada zinazotakiwa zilizotolewa katika notisi ya leseni ya Nyaraka.
- H. Ongeza nakala isiyobadilishwa ya Leseni hii.
- I. Hifadhi kifungu kiitwacho "Historia", na mada yake, na iongezee kifaa kinachosema japo mada, mwaka, waandishi wapya, na mchapishaji wa Toleo Lililobadilishwa kama ilivyo kwenye Ukurasa wa Mada. Kama hakuna kifungu kiitwacho "Historia" katika Nyaraka, tengeneza moja inayosema mada, mwaka, waandishi, na mchapishaji wa Nyaraka kama ilivyo kwenye Ukurasa wa Mada, kisha ongeza kifaa kinacholeleza Toleo Lililobadilishwa, kama ilivyoielezwa kwenye sentensi iliyopita.
- J. Hifadhi eneo la mtandao, kama lipo, ikiwa katika Nyaraka kwa ajili ya ufikivu wa umma kwenye nakala Wazi ya Nyaraka, na hivyo hivyo maeneo ya mtandao yaliyo kwenye Nyaraka kwa ajili ya matoleo yaliyopita iliyokuwa ikijikita. Hizi zinaweza kuwek-

wa kwenye kifungu "Historia". Unaweza kuondoa eneo la mtandao kwa kazi ambayo ilichapishwa japo miaka miine kabla ya Nyaraka yenyewe, au mchapishaji halisi wa toleo husika akiruhusu.

K. Katika kifungu chochote kilichoandikwa "Shukrani" au "Kujitolea", hifadhi mada za vifungu, na hifadhi kwenye vifungu vitu vyote na muonekano wa kila Shukrani ya mchangiaji na/au kujitolea yaliyotolewa.

L. Hifadhi Vifungu vyote Visivyoathirika vya Nyaraka, bila kubadilishwa nakala na katika sheria zake. Nambari za Vifungu au kinachofanania hazichukuliwi kama sehemu ya kichwa cha kifungu.

M. Futa kifungu chochote kiitwacho "Idhini". Kifungu kama hicho hakitakiwi kuwepo katika Toleo Lililobadilishwa.

N. Hutakiwi kukipa upya jina "Idhini" kipengele chochote kilichopo au kuingiliana majina na Kipengele Kisichobadilika chochote.

Kama Toleo Lililobadilishwa linajumuisha vifungu vya mambo ya mbele vipya au viambat-anisho ambavyo vina sifa kama Vifungu vya Sekondari na havina kitu chochote kilichonakiliwa kutoka kwenye Nyaraka, unaweza kwa uamuzi wako mwenyewe kuteua baadhi au vifungu vyote hivi kuwa Visivyobadilika. Kufanya hivi, ongeza vichwa vyao vya habari kwenye orodha ya Vifungu Visivyobadilika katika Matoleo Yaliyobadilishwa ya notisi ya leseni. Hivi vichwa vya habari lazima viwe tofauti na vile vya vifungu vingine.

Unaweza kuongeza kipengele kiitwacho "Idhini", ikiwa kwamba haina kitu kingine lakini idhini au uthibitisho wa Toleo Lako jipya kutoka kwa makundi mbali mbali--kwa mfano, kauli ya mapitio ya watu au kwamba nakala imeidhinishwa na shirika au mamlaka ya ufafanuzi wa viwango.

Unaweza kuongeza kifungu cha mpaka maneno matano kama Nakala ya Jalada la Mbele, na kiungu cha mpaka maneno 25 kama Nakala ya Jalada la Nyuma, kwenye mwisho wa orodha ya Nakala za Majalada katika Toleo Lililobadilishwa. Kifungu kimoja tu cha Nakala ya Jalada la Mbele na Nakala ya Jalada la Nyuma kinaweza kuongezwa na (au kupitia mipango iliyofanywa na) chombo chochote kimoja. Kama nyaraka tayari inajumuisha nakala ya jalada kutoka kwenye jalada hilo hilo, iliyoongezwa kabla na wewe au kwa mpango uliofanywa na chombo kile kile ambacho unakitumikia, huwezi kuongeza nyingine; lakini unaweza kuwa mbadala wa lililokuwepo, kwa ruhusa ya wazi kutoka kwa mchapishaji aliyeongeza ya zamani.

Mwandishi (waandishi) na mchapishaji (wachapishaji) wa nyaraka hawatoi ruhus akwa leseni hii kutumia majina yao kwa utangazaji au kwa madai au kama idhini ya Toleo lolote jipya.

5. KUJUMUISHA NYARAKA

Unaweza kuunganisha Nyaraka hiyo na Nyaraka nyingine zilizotolewa chini ya Leseni hii, chini ya masharti yaliyofafanuliwa katika kifungu 4 juu kwa matoleo yaliyobadilishwa, ikiwa kwamba unajumuisha katika muunganiko Vifungu vyote Visivyoathirika vya nyaraka zote halisi, ambazo hazijabadilishwa, na kuziorodhesha zote kama Vifungu Visivyoathirika vya kazi yako katika notisi yake ya leseni.

Kazi iliyounganishwa inahitaji kuwa na nakala moja ya hii Leseni, na Vifungu Visivyoathirika vingi vinavyofanana vinaweza kubadilishwa na nakala moja. Kama kuna Vifungu Visivyoathirika vingi vyenye jina moja lakini maudhui tofauti, fanya kichwa cha kila kifungu kuwa cha kipekee kwa kuongeza mwishoni mwake, katika mabano, jina la mwandishi halisi au mchapishaji wa kifungu hicho kama anajulikana, au namba ya kipekee. Fanya mabadiliko hayo hayo kwenye vichwa vya vifungu katika orodha ya Vifungu Visivyoathirika kwenye notisi ya leseni ya kazi iliyojumuishwa.

Katika majumuisho, lazima ujumuishe kifungu chochote kilichoandikwa "Historia" katika nyaraka halisi zozote, kutengeneza kifungu kimoja kiitwacho "Historia"; hivyo hivyo juumuisha vifungu vyovyote viitwavyo "Shukrani", na vifungu vyovyote viitwavyo "Kujitolea." Lazima ufute vifungu vyote viitwavyo "Endorsements."

6. MKUSANYIKO WA NYARAKA

Unaweza kutengeneza mkusanyiko unaojumuisha Nyaraka hiyo na nyaraka nyingine zilizotolewa chini ya Leseni hii, na kubadilisha nakala binafsi za leseni hii katika nyaraka tofauti kwa kutumia nakala moja ambayo imejumuishwa na mkusanyiko huu, ikiwa kwamba unafuata sheria za Leseni hii, kwa kunakili bila mabadiliko katika kila nyaraka kwa mambo mengine yote.

Unaweza kutoa dondoo ya nyaraka moja kutoka kwenye mkusanyiko, na kuisambaza kibinafsi chini ya hii Leseni, ikiwa umeingiza nakala ya leseni hii kwenye nyaraka hiyo, na kufuata hii Leseni katika mambo mengine yote kuhusu kunakili bila mabadiliko ya nyaraka hiyo.

7. KUJUMUISHA NA KAZI BINAFSI

Mkusanyiko wa Nyaraka au sehemu zake na nyaraka nyingine tofauti na huru au kazi, juu ya au ndani ya hifadhi ya wingi au chombo cha usambazaji, haihesabiki kwa ujumla kama Toleo lililobadilishwa la Nyaraka, ikiwa hakuna hakimiliki ya ukusanyaji iliyoombwa. Mkusanyiko wa aina hii unaitwa "aggregate", na hii Leseni haifanyi kazi kwenye kazi nyingine za binafsi ambazo zimejumuishwa na Nyaraka, kwa kuwa zimejumuishwa, kama zenyewe siyo sehemu za kazi ya Nyaraka.

Kama mahitaji ya Nakala ya Jalada ya kifungu 3 yanaweza kutumika kwenye hizi nakala za Nyaraka, basi kama nyaraka ni ndogo zaidi ya robo ya mkusanyiko mzima, Nakala za Jalada la Nyaraka zinaweza kuwekwa kwenye majalada ambayo yanazunguka Nyaraka tu ndani ya mkusanyiko. La sivyo lazima zitokee kwenye majalada kwenye mkusanyiko wote.

8. TAFSIRI

Tafsiri inachukuliwa kama aina ya ubadilishaji, kwa hiyo unaweza kusambaza tafsiri ya Nyaraka chini ya masharti ya kifungu 4. Kubadilisha Vifungu Visivyobadilika kwa tafsiri inahitaji ruhusa maalumu kutoka kwa wanaoshikilia hakimiliki, lakini unaweza kujumuisha tafsiri ya baadhi au Vifungu Visivyobadilika vyote, kama nyongeza kwa matoleo halisi ya hivi Vifungu Visivyobadilika. Unaweza kujumuisha tafsiri ya hii Leseni ikiwa kwamba umejumuishwa pia toleo halisi la Kiingereza la hii Leseni. Ikitokea kutokuwapo na makubaliano kati ya tafsiri na toleo halisi la Kiingereza la hii Leseni, toleo halisi la Kiingereza litatumika.

9. USITISHAJI

Huwezi kunakili, kubadilisha, kupata leseni ndogo, au kusambaza Nyaraka hiyo ila tu ikiwa imeonyeshwa chini ya Leseni hii. Jaribio lingine lolote la kunakili, kubadilisha, kupata leseni ndogo, au kusambaza Nyaraka ni batili, na itasitisha kiotomatiki haki zako chini ya Leseni hii. Hata hivyo, washirika waliopokea nakala, au haki, kutoka kwako chini ya Leseni hii hawatasisitishiwa leseni zao ikiwa tu wataendeleza ushirikiano kamili.

10. MAREKEBISHO YA BAADAYE YA HII LESENI

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