

# ZyXEL GS-4012F V3.60(TS.2)C0

## Release Note/Manual Supplement

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**Date:** Jan. 26, 2006

This document describes the features in the GS-4012F product for its 3.60(TS.2)C0 release.

### ***Support Platforms:***

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ZyXEL GS-4012F V3.60(TS.2)C0 supports models: Dimension GS-4012F

### ***Version:***

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ZyNOS version: V3.60(TS.2) | 01/02/2006

bootbase version: V3.0 | 04/08/2005

### ***Default Bootbase Setting:***

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|   |  |
|---|--|
| ZyNOS Version   | V3.60(TS.2)   01/02/2006 10:36:53          |
| Bootbase Version  | V3.0   04/08/2005 18:23:15                 |
| Vendor Name   | ZyXEL Communications Corp.                 |
| Product Model   | GS-4012F                                   |
| ZyNOS Code Model  | GS-4012F                                   |
| HTP Code Model  | Unknown                                    |
| ZyNOS ROM address   | 50080000                                   |
| System Type   | 10   |
| MAC Address   | 0013494012F3                               |
| Default Country Code  | FF   |
| Boot Module Debug Flag  | 00   |
| RomFile Version   | 5A   |
| RomFile Checksum  | 67ef                                       |
| ZyNOS Checksum  | 9b2d                                       |
| SNMP MIB level & OID  | 060102030405060708091011121314151617181920 |
| Main Feature Bits   | C0   |
| Other Feature Bits  |  |
| D8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00<br>00 00 00 00 00 00 00 00 00-00 4113 00 00 00 |  |

### ***Enhanced Features:***

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1. Multicast
2. MVR
3. IGMP Filtering
4. CIR & PIR
5. Mac Freeze
6. Intrusion Lock
7. MIB

### ***Bug Fix:***

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1. Restore config with IP address fail because out-of-band and inband exchange IP addresses.
2. Remove "time" and "time date" in backup configuration
3. Timesync config can't restore
4. Enable OSPF, send over 8K routing paths, system hang.
5. DUT trap VRRP packets into CPU when VRRP disable
6. Create more than 6 static routing entries, the switch will hang
7. The Vlan status does not recover to original status after change trunking group to none.
8. Create VLAN ID 000001 via CLI found VLAN ID 0 is be created
9. Enable IGMPsnooping, One port leave message effect on another received port losing multicast packets, it should not effect on another received port.
10. Can't use Cluster Management function with Telnet or SSH client to re-command members.
11. DUT 's RIPv2 multicast function did not work
12. Memory leak bug on stunnel. It will run out of memory when scan https many times.
13. When fiber set to speed 1000, auto negotiation should be turn off.
14. VLAN created by GVRP is unstable.
15. Config restore failed caused by name string with space

### ***Known Issue:***

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1. In some circumstances, packets may route to blocking port of the other device when use Spanning Tree Protocol for redundant purpose between two devices. Recommend using Link Aggregation instead.
2. For many to one test , packet loss 3 % on one receiving port.
3. Discard destination MAC on filter rule , but the same source MAC packet still be filtered.
4. Can't support ip port move.

### ***Limitation of Settings:***

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1. VLAN 1Q static entry 256
2. Static MAC forwarding entry 256
3. MAC filtering entry 256
4. Cluster member 24
5. Management IP interface 64
6. IGMP Filtering entry 256
7. MVR entry 256
8. Vrrp entry 14
9. OSPF area 4

### ***Change History:***

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1. Revise ospf interface web page
2. Support untag only for acceptable frame type
3. Restore config with IP address fail because out-of-band and inband exchange IP addresses.
4. Remove "time" and "time date" in backup configuration
5. Timesync config can't restore
6. Enable OSPF, send over 8K routing paths, system hang.
7. DUT trap VRRP packets into CPU when VRRP disable
8. Create more than 6 static routing entries, the switch will hang
9. The Vlan status does not recover to original status after change trunking group to none.
10. Create VLAN ID 000001 via CLI found VLAN ID 0 is be created
11. Enable IGMPsnooping, One port leave message effect on another received port losing multicast packets, it should not effect on another received port.
12. Can't use Cluster Management function with Telnet or SSH client to re-command members.
13. DUT 's RIPv2 multicast function did not work

14. Memory leak bug on stunnel. It will run out of memory when scan https many times.
15. When fiber set to speed 1000, auto negotiation should be turn off.
16. VLAN created by GVRP is unstable.
17. Config restore failed caused by name string with space

# ZyXEL GS-4012F V3.60(TS.1)C0

## Release Note/Manual Supplement

**Date:** June 26, 2005

This document describes the features in the GS-4012F product for its 3.60(TS.1) release.

### **Support Platforms:**

ZyXEL GS-4012F V3.60(TS.1) supports models: Dimension GS-4012F

### **Version:**

ZyNOS version: V3.60(TS.1) | 06/24/2005

bootbase version: V3.0 | 04/08/2005 18:23:15

### **Default Bootbase Setting:**

|   |  |
|---|--|
| ZyNOS Version   | V3.60(TS.1)   06/24/2005                   |
| Bootbase Version  | V3.0   04/08/2005 18:23:15                 |
| Vendor Name   | ZyXEL Communications Corp.                 |
| Product Model   | GS-4012F                                   |
| ZyNOS Code Model  | GS-4012F                                   |
| HTP Code Model  | Unknown                                    |
| ZyNOS ROM address   | 50080000                                   |
| System Type   | 10   |
| MAC Address   | 001349000001                               |
| Default Country Code  | FF   |
| Boot Module Debug Flag  | 00   |
| RomFile Version   | DF   |
| RomFile Checksum  | 7bc3                                       |
| ZyNOS Checksum  | 8751                                       |
| SNMP MIB level & OID  | 060102030405060708091011121314151617181920 |
| Main Feature Bits   | C0   |
| Other Feature Bits  |  |
| D8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00<br>00 00 00 00 00 00 00 00 00-00 4113 00 00 00 |  |

### **Known Issue:**

1. When restore configuration, the default VLAN and the default IP address will be implicitly created.
2. In some circumstances, packets may route to blocking port of the other device when use Spanning Tree Protocol for redundant purpose between two devices. Recommend using Link Aggregation instead.

# ZyXEL GS-4012F V3.60(TS.0)C0

## Release Note/Manual Supplement

**Date:** April 13, 2005

This document describes the features in the GS-4012F product for its 3.60(TS.0) release.

### **Support Platforms:**

ZyXEL GS-4012F V3.60(TS.0) supports models: Dimension GS-4012F

### **Version:**

ZyNOS version: V3.60(TS.0) | 04/13/2005 19:51:31

bootbase version: V3.0 | 04/08/2005 18:23:15

### **Default Bootbase Setting:**

|   |  |
|---|--|
| ZyNOS Version   | V3.60(TS.0)   04/13/2005 19:51:31          |
| Bootbase Version  | V3.0   04/08/2005 18:23:15                 |
| Vendor Name   | ZyXEL Communications Corp.                 |
| Product Model   | GS-4012F                                   |
| ZyNOS Code Model  | GS-4012F                                   |
| HTP Code Model  | Unknown                                    |
| ZyNOS ROM address   | 50080000                                   |
| System Type   | 10   |
| MAC Address   | 001349000001                               |
| Default Country Code  | FF   |
| Boot Module Debug Flag  | 00   |
| RomFile Version   | DF   |
| RomFile Checksum  | 7bc3                                       |
| ZyNOS Checksum  | e400                                       |
| SNMP MIB level & OID  | 060102030405060708091011121314151617181920 |
| Main Feature Bits   | C0   |
| Other Feature Bits  |  |
| D8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00<br>00 00 00 00 00 00 00 00 00-00 4113 00 00 00 |  |

### **Features:**

1. 4 ports Auto MDI/MDI-X 100/1000Mbps compliant with IEEE802.3u/x/ad
2. 12 ports Mini GBIC 1000Mbps compliant with IEEE802.3x/ab
3. 16K layer2 MAC addresses table
4. 8K IP address table
5. Support 1MB on-chip packet buffer.
6. 802.1D transparent bridging
7. Port-based VLAN
8. IEEE 802.1Q tag-based VLAN
9. IGMP snooping

10. MAC filtering
11. Management through console, telnet, SNMP or web management
12. Firmware upgrade by FTP
13. Configuration saving and retrieving
14. Overheat detection
15. LED indications for link status
16. External power backup for internal power module failure
17. 9K jumbo frame
18. Filtering/Mirroring by L2/L3/L4 rules
19. Bandwidth control by L2/L3/L4 rules
20. Egress traffic shaping per port
21. Private VLAN for port isolation
22. SSH v1 and v2
23. SSL

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**Known Issue:**

1. When restore configuration, the default VLAN and the default IP address will be implicitly created.
2. In some circumstances, packets may route to blocking port of the other device when use Spanning Tree Protocol for redundant purpose between two devices. Recommend using Link Aggregation instead.

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**Change History:**

V3.60(TS.0)C0(04/13/2005 ) is First Public version

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**Firmware Upgrade:**

The GS-4012F uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade GS-4012F. The upgrade procedure is as follows:

**Upgrade GS-4012F FW:**

```
C:\> ftp <GS-4012F IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 360TS0C0.bin ras
ftp> bye
```

Where

- User name : the management user name, admin by default
- Password : the management password, 1234 by default
- 360TS0C0.bin : the name of firmware file you want to upgrade
- ras : the internal firmware name in GS-4012F

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**Configuration Upgrade:**

The GS-4012F uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade GS-4012F. The upgrade procedure is as follows:

**Upgrade GS-4012F FW:**

```
C:\> ftp <GS-4012F IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 360TS0C0.rom rom-0
ftp> bye
```

Where

- User name : the management user name, admin by default
- Password : the management password, 1234 by default
- 360TS0C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS-4012F