Vantage CNM

Centralized Network Management

Quick Start Guide

Version 2.2 9/2005 Linux Quick Start Guide Windows Quick Start Guide



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Version 2.2 (Linux) 9/2005



Overview

Vantage Centralized Network Management 2.2 (CNM) is a browser-based, management solution that allows you to easily configure, manage and monitor ZyXEL devices from any location. Vantage Centralized Network Management 2.2 will be referred to as "Vantage CNM" in this document.

This Quick Start Guide shows you to install Vantage CNM. See the User's Guide for more information.

The following figure displays a Vantage CNM application:

- 1 This is the Vantage CNM "client" that manages ZyXEL devices via the Vantage CNM "server".
- 2 The Vantage CNM "server" is the computer with Vantage CNM software installed.
- 3 These are the ZyXEL devices being managed by Vantage CNM.



This Quick Start Guide shows you:

- 1 The Vantage CNM Requirements
- **2** A Vantage CNM Installation Procedure
- 3 How to Start and Stop Vantage CNM
- 4 How to Access Vantage CNM
- 5 How to register at myZyXEL.com
- 6 How to Uninstall Vantage CNM
- 7 How to Activate Vantage CNM on a ZyXEL Device
- 8 Troubleshooting

1 Requirements

1.1 Vantage CNM Server Requirements

Hardware	CD-ROM or DVD-ROM drive
	PS/2 Keyboard
	PS/2 mouse
	Monitor
Hard Disk	80 GB or more
Software	Red Hat 9.0 Linux
	Vantage CNM
СРИ	Pentium IV 2.8 GHz or faster
RAM	2 GB or more
Browser	Internet Explorer 6.0 or above with 1024*768 resolution

1.2 Vantage CNM Client Recommended Requirements

СРИ	Pentium III 450 MHz or faster
RAM	256 MB or more
Operating System	Microsoft Windows XP Professional SP1 or SP2 (Service Pack 1 or 2)
Browser	Internet Explorer 6.0 or above with 1024*768 screen resolution

1.3 ZyXEL Device Requirements

Firmware For details, see the Vantage CNM software release notes.

Please read the device release note carefully if you have to upload new device firmware.

2 Vantage CNM Installation Procedure

Before you install Vantage CNM, make sure that Red Hat Linux is already installed; see the User's Guide Appendix for further information.

If you already have a previous version of Vantage CNM installed, install the upgrade patch. Make sure you back up the existing "vantage" database in MySQL before you proceed with the patch upgrade.

2.1 Vantage CNM Installation Overview

• Use the Vantage CNM installation wizard to install Vantage CNM server software.

Note: In each wizard screen, click **Next** to proceed to the next screen in the wizard, click **Back** to return to the previous screen or click **Cancel** to abort the installation and exit the wizard.

• Use the **Terminal** screen to run Linux commands. To open the **Terminal** screen, select the main menu Red Hat icon (usually located on the bottom left of the screen), **System Tools** and then **Terminal**.



- You also need to open a text file so that you can add to and modify existing Linux code. To open the **Text Editor**¹ screen, select the main menu Red Hat icon, **Accessories** and then **Text Editor**. To locate the file that you want to add commands to or modify, click the **Open** button and browse for the command sequence using the vertical scroll-bars in the **Folders** and **Files** sections. Save the file when you are satisfied with the command changes.
- **Note:** You should uninstall any previous versions of Vantage CNM before beginning. Make sure that you uninstall any existing MySQL servers. You may have to remove the /etc/my.cnf file if it exists. In the **Text Editor**, browse for the

/etc/my.cnf

file and delete the file.

2.2 Extracting Vantage CNM

1 Insert the Vantage CNM CD into the CD-ROM or download the Vantage CNM software and save it to a folder; for example, ./root/Vantage-CNM.

^{1.} At the time of writing Linux RedHat Text Editor was used to modify and amend commands. Other text editing tools can be used; for example gedit or Emacs.

2 Navigate to this folder using the "cd" command and type the following to extract the Vantage CNM files.

```
./Vantage_CNM.bin
```

(You may need to make the file executable first using chmod +x Vantage_CNM.bin)

```
[root@localhost Vantage-CNM]# chmod +x Vantage_CNM.bin
[root@localhost Vantage-CNM]# ls -1 Vantage_CNM.bin
Vantage_CNM.bin
[root@localhost Vantage-CNM]# ./Vantage_CNM.bin
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
```

Alternatively, double-click the Vantage_CNM.bin icon.

14444	Location:	/root/Vantage-CNM	
File	e name		¥
V	0	Vantage_CNM.bin	

3 Vantage CNM must be able to ping the hostname of your computer; otherwise you see the next screen.



4 The Vantage CNM logo appears briefly when extraction begins.



2.3 Installation Wizard

1 The first wizard screen appears after successful extraction. You should prepare all FTP, SMTP and syslog server IP addresses and login names/passwords. For syslog, you need an SSH login name and password. You can configure these servers during the wizard installation or after you install Vantage CNM in the System > Preferences > Servers screen.



If a MySQL server is detected, you see the following screen.



2 Select a folder where you would like to install Vantage CNM. Spaces in the folder name or path are not allowed.

Vantage CNM	
ZyXEL	Choose the Installation Folder and Path
 Introduction: Before Yo Choose the Installation Choose Lint Folder Auto Commune the Com Select System Server Plat 	Select a folder in which you would like to install Vantage CNM. Spaces in the folder name or path are not allowed.
Configure Your system S. Configure Your system S.	Where Would You Like to Install?
Configure FTP Server	/root/Vantage-CNM
▶ Configure Mail Server	Restore Default Folder Choose
 Configure Vantage CNM Server Configuration Su 	
▶ Pre-Installation Summary	
▶ Installing.	
Install Complete	
InstallAnywhere by Zero G	
Cancel	Previous

You will see an error screen as shown next if your installation folder or path has a space.



3 The next screen asks you where you want to create a Vantage CNM link or shortcut. After you install Vantage CNM you will see a **Launch Vantage** icon in this folder.

Vantage CNM		
ZvXEL		Choose Link Folder
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto configure the Configure Your systog 5 Configure Your Your Systog 5 Configure Your Your Your Your Your Your Your Your	Where would In your Other: Don't ci	you like to create a Vantage CNM shortcut? home folder /root/Vantage-CNM Choose reate links
InstallAnywhere by Zero G —— Cancel		Previous

4 You next configure a syslog server. syslog is a logging system that is used by most versions of UNIX. If Vantage CNM finds an existing syslog server on your computer, you see the next screen asking you if this is the syslog server you wish to use. If not, choose **No**.

Vantage CNM	
ZyXEL	Auto Configure the Computer as Syslog Server
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select System Select Blat 	Vantage CNM want to configure this computer as Syslog Server. Do you agree with it?
 Configure Your syslog S Configure Your syslog S Configure FTP Server Configure Mall Server Configure Vantage CNM. Server Configuration Su Pre-Installation Summary Installing Install Complete 	© Yes ● No
InstallAnywhere by Zero G Cancel	Previous

5 If you choose Yes in the Auto Configure the Computer as Syslog Server screen, you will then see the next screen. You must create a Telnet account on the syslog server. Vantage CNM uses SSH to communicate with the syslog server to instruct it to send files to an FTP server for retrieval. See the appendices in the User's Guide for details. Follow the instructions as shown in the screen.

Vantage CNM	
ZvXEL	Configure Your syslog Server Settings(for Linux)
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select Syslog Server Plat Configure Your syslog S Pre-Installation Summary Installing Install Complete 	To use syslog with Vantage CNM logs, enter the syslog server IP address. To access Vantage CNM logs on the syslog server, you need to create a Telnet(ssh) account allowing read/write privileges to the "vantage.log" file. Syslog Server IP Telnet(ssh) Account T Telnet(ssh) Account Password Syslog Server Log Path /var/log/vantage.log
InstallAnywhere by Zero G Cancel	Previous

If you choose **No** in the **Auto Configure the Computer as Syslog Server** screen, you must configure the **System > Preferences > Server** screen in Vantage CNM.

- **6** The syslog server must be a syslog server running on Linux.
 - Make sure that syslog is enabled on Linux. Select the main menu Red Hat icon, System Settings, Server Settings and then Services. Scroll down to the syslog checkbox and make sure that it is selected.

Vantage CNM communicates with a Linux syslog server using SSH (Secure SHell), so you must enable the SSH daemon on the Linux syslog server. This allows the Linux syslog server to receive logs.

Configuration changes to the Linux syslog server can be made in the terminal screen using Linux commands.

For Vantage CNM to receive logs from the Linux syslog server, you must do the following on the Linux syslog server.

In **Text Edit** (or a similar text editing tool) open the file path:

/etc/syslog.conf

Enter this row after it:

local2.* /var/log/vantage.log

In /etc/syslog.conf find the following row:

```
*.info;mail.none;authpriv.none;cron.none /var/log/messages
```

Modify the row to (or if the above row does not exist, type the following):

```
*.info;mail.none;authpriv.none;cron.none;local2.none /var/log/messages
```

Open the file path /etc/sysconfig/syslog

Syslogd must support the "-r" option. Find the row,

```
SYSLOGD OPTIONS="..."
```

Modify it as follows:

SYSLOGD_OPTIONS="-r"

Make sure that you save each file after you make modifications.

In the Terminal screen run /etc/init.d/syslog stop and /etc/init.d/syslog start to restart syslog.

You can add a telnet account to the Vantage CNM server by typing

```
[root@localhost Vantage-CNM] # useradd followed by a name; for example "test"
[root@localhost Vantage-CNM] # passwd followed by a password; for example "1234"
Modify the following row:
```

[root@localhost Vantage-CNM]# /var/log/vantage.log

To the following using correct name and passwords

[root@localhost Vantage-CNM]# cd/var/log
[root@localhost Vantage-CNM]# chown test/var/log/vantage.log
[root@localhost Vantage-CNM]# chgrp 1234/var/log/vantage.log

After you fully install Vantage CNM, you can check the link status in the **System > Status** screen.

7 The next screen asks you configure an FTP server. The FTP server is used for syslog log file downloads to Vantage CNM and firmware uploads from Vantage CNM to ZyXEL device(s). Follow the instructions in the screen.

Vantage CNM				
ZvXEL	Configure FTP Server			
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select Syslog Server Plat Configure Your syslog S Configure Your syslog S Configure FTP Server Configure Mail Server Configure Vantage CNM Server Configuration Su Pre-Installation Summary installing Install Complete 	To use an FTP server with Vantage CNM(for firmware upload for example), enter the FTP server IP address, account name and password here. The FTP Account must have full permission in its home directory. FTP Server IP			
InstallAnywhere by Zero G				
Cancel	Previous			

8 Make sure that you have selected **FTP Server** application packet when you installed Linux. Make sure that vsftpd is enabled on Linux.

Check that the FTP Daemon vsftpd is installed by entering the command

[root@localhost Vantage-CNM]# man vsftpd

Manual operation displays. In Text Edit find the file path:

/etc/vsftpd/vsftpd.conf

Make sure that the listen=YES command displays.

Add the clause chroot_local_user=yes

In the **Terminal** screen run the command

[root@localhost Vantage-CNM]# cp /etc/vsftpd/vsftpd.conf /etc/vsftpd.conf

Add a user and assign a folder to that user by typing as follows

```
[root@localhost Vantage-CNM]# useradd -d /var/ftp/pub -M followed by a name; for example
test.
```

The next line requests a password for this user. Type a password of not less than six characters.

[root@localhost Vantage-CNM] # passwd followed by a password; for example "123456"

Note: You can also add users in Linux by doing the following:

Select the main menu Red Hat icon, **System Settings** and then **Users and Groups**. The Red **Hat User Manager** screen opens. Select the **Add User** button and configure a user.

In the Terminal screen run the command

[root@localhost Vantage-CNM]# chown vantage /var/ftp/pub

[root@localhost Vantage-CNM]# chmod 750 /var/ftp/pub

And run vsftpd by typing [root@localhost Vantage-CNM] # vsdtpd&

[root@localhost Vantage-CNM]# ftp 127.0.0.1try

If you want to stop this action type [root@localhost Vantage-CNM]# killall vsftpd

Type [root@localhost Vantage-CNM] # chkconfig --level35 vsftpd on to have vsftpd start automatically when the system is up.

After you fully install Vantage CNM, you must configure the FTP server section of the **System > Preferences > Server** screen in Vantage CNM with the same settings. You can check the link status in the **System > Status** screen.

Note: You can also check if vsftpd is enabled on Linux by doing the following:

Select the main menu Red Hat icon, **System Settings**, **Server Settings** and then **Services**. Scroll down to the **vsftpd** checkbox and make sure that it is selected. **9** The next screen asks you to configure a mail server. The mail server is used to send notifications. Follow the instructions in the screen.

Vantage CNM	
ZyXEL	Configure Mail Server
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select Syslog Server Plat Configure Your syslog S Configure Your syslog S Configure Your syslog S Configure Mail Server Configure Mail Server Configure Vantage CNM Server Configuration Su Pre-Installation Summary install Complete 	To use an SMTP server with Vantage CNM (for configuration notifications and report e-mailing for example), enter the SMTP server IP address, account name and password here. This is not necessary if your mail server doesn't require authentication.
InstallAnywhere by Zero G ——— Cancel	Previous

10The next screen asks you to configure the Vantage CNM server public address. This is the IP address that the ZyXEL devices use to communicate with Vantage CNM. Follow the instructions in the screen. If Vantage CNM is behind a NAT router, then you need to enter the public IP address (WAN) of the NAT router.

Vantage CNM	
Z _V XEL	Configure Vantage CNM Server Public IP
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select Syslog Server Plat Configure Your syslog S Configure Your syslog S Configure FTP Server Configure Mail Server Configure Mail Server Configure Vantage CNM Server Configuration Su Pre-installation Summary Install Complete 	Type the Vantage CNM Server Public IP address. All devices that you want to register with Vantage CNM will use this IP address. Vantage CNM Server Public IP
InstallAnywhere by Zero G	Previous Next

Note: Port forwarding must also be enabled on the NAT router. If the Vantage CNM server and other servers exist behind a NAT router and LAN or DMZ side of a firewall, open the following ports:

Vantage CNM Server:1864, 443Syslog Server:514FTP Server:20, 21Telnet Server:23Mail Server:25

11The next screen is a summary of the servers you configured in this wizard. Click **Next** to continue.

Vantage CNM	
ZvXEL	Server Configuration Summary
 Introduction: Before Yo Choose the Installation Choose Link Folder Auto Configure the Com Select Syslog Server Plat Configure Your syslog S Prevent Your Syslog S Installing Install Complete 	Syslog Server OS: Linux Syslog Server IP: Syslog Server Account: Syslog Server Log Path: /var/log/vantage.log FTP Server IP: FTP Server Account: FTP Account Password: SMTP Server IP: SMTP Server Account: SMTP Server Account: SMTP Server Account: SMTP Account Password: SMTP MAIL SENDER: Vantage CNM Server Public IP:
InstallAnywhere by Zero G Cancel	Previous

12 The next screen asks you to review everything you configured in this wizard before continuing. Click **Install** if everything is as intended.



13 Wait while Vantage CNM installs.



14 Vantage CNM has installed successfully when you see the next screen. It is recommended you restart your computer.



- **15** Restart Linux by running the command [root@localhost Vantage-CNM] # reboot in the Terminal screen.
- **16** After Linux restarts and you have logged in as the root user, in the **Terminal** screen change the directory to the folder you saved Vantage CNM and run the command

```
[root@localhost root]# cd Vantage-CNM
```

[root@localhost Vantage-CNM]# ./LaunchVantageCNM

to start the Vantage CNM Server.

3 Starting and Stopping Vantage CNM

• In the Terminal screen change the directory to the folder you saved Vantage CNM in and run the command

[root@localhost root]# cd Vantage-CNM/ZYCNM_DEPLOY_BED/bin [root@localhost bin]# ./start.sh

Or

[root@localhost bin]# ./start-graphic.sh

Or

• Navigate to the folder you saved Vantage CNM in (for example, /root/Vantage-CNM), in the **Choose Link** Folder screen.

Location: /root/Vanta	ge-CNM/ZYCNM_DEPLO	Y_BED/bin	- 100 +	View as Icons
clear.sh 697 bytes	conf Litem	Starter\$1.class 456 bytes	Starter.class	
Starter\$MonitorThread.	Starter\$StartListener.	Starter\$StopListener.	start-graphic.sh	
class 2.0 K	class 989 bytes	class 993 bytes	173 bytes	
start.sh 1019 bytes	stop.sh 504 bytes			

Double-click **ZYCNM_DEPLOY_BED** and then the **/bin** icon.

Double-click the start.sh icon to launch Vantage CNM (or the stop.sh icon to quit Vantage CNM).

3.1 Vantage CNM Status Screen

You see the following Vantage CNM screen indicating the status (started or stopped) of Vantage CNM. Use the **Stop** and **Start** buttons to exit or resume Vantage CNM.



4 Accessing Vantage CNM

4.1 IP Address

- 1 From the Vantage CNM client computer, open your web browser and type http://{Vantage CNM server IP address}/vantage or simply http://{Vantage CNM server IP address}.
- 2 When the login screen appears, type "root" as Username, "root" as the Password (factory defaults) and then click **OK**. You may see a screen asking you if Windows should remember this password. If this is a shared computer, Windows should not remember your password.

- Note: If the login screen does not display, check if the Linux firewall is active. Select the main menu Red Hat icon, System Settings and then Security Level. Select Medium from the Security level drop-down list box and select the WWW(HTTP), FTP and SSH check boxes in the Allow incoming section of the screen.
- 3 You may see another screen advising that this is a HTTPS connection. Click Yes to continue.



4.2 Login

1 Enter "root" for both username and password and then click **OK**. You should change your password after first login; see the User's Guide for more information.

ZyXEL	VANTAGE Centralized Network Management		
	Username:	root	
	Password:	****	
		OK	

4.3 Install Java Plug-in

1 You may be asked to install a Java plug-in on the Vantage CNM computer. Install it. The Vantage CNM server must be connected to the Internet to download the plug-in.



- 2 Select the I accept the terms in the license agreement radio button and click the Next.
- 3 Click Typical and then click Next to begin the Java plug-in installation.

🚰 Java 2 Runtime Environment, SE v1.4.2_06 - License	📴 Java 2 Runtime Environment, SE v1.4.2_06 - Setup Type
License Agreement Please read the following license agreement carefully.	Setup Type Choose the setup type that best suits your needs.
Sun Microsystems, Inc. Binary Code License Agreement for the JAVA ^M 2 RUNTIME ENVIRONMENT (J2RE), STANDARD EDITION, VERSION 1.4.2_X SUN MICROSYSTEMS, INC. ("SUN") IS WILLING TO LICENSE THE SOFTWARE IDENTIFIED BELOW TO YOU ONLY UPON	Please select a setup type.
f groups due centre in the incense agreement f i go not accept the terms in the license agreement for additional	Toot all Shield
Next > Cancel	< Back Next > Cancel

4 Wait for the Java plug-in to finish installing.



4.4 HTTPS Certificates

HTTPS is used to access the Vantage CNM server. A series of warning screens related to HTTPS certificate information appears. Click **Yes** (or **Always**) in each to continue.



4.5 Activate Vantage

1 The next screen appears asking you to enter the **Activation Key** and **Service Set Key** generated at www.myZyXEL.com. See section 5 if you have not yet registered and activated Vantage there. Afterwards, enter these fields and then click **Next** to continue.

ZyXEL VA	ANTAGE Centralized Network Management
MyZyXEL.com is ZyXEL's online 1. Go to myZyXEL.com.	services center. Before continuing you must do the following:
 If you haven't already got a account by filling in the (ne 3. After successful account o number. 	rmy_yxEL.com login username and password, then create an ew) account registration form. reation, register Vantage CNM. You will be asked for the serial
 After you have registered \ MyZyXEL.com then genera screen. 	/antage CNM, activate it. You will be asked for the license key. ates an Activation Key and Service Set Key that you enter in the next
Authentication Code :	EF394DC95CCB
Activation Key :	37373456B31B594F *
Service Set Key)AD7EDC0FA98CB + Cencel Next

2 The next screen asks you to configure the Vantage server public address. This is the IP address that the ZyXEL devices use to communicate with Vantage. Follow the instructions in the screen. If Vantage is behind a NAT router, then you need to enter the public IP address (WAN) of the NAT router. Click **Next** to register and go to the main screen.

3 See the User's Guide for details on the Vantage main screen.



5 MyZyXEL.com

http://www.myZyXEL.com/ is ZyXEL's online services center where you must register Vantage and generate an **Activation Key** and **Services Set Key** that you enter in step 1 of section 4.5.

5.1 A Note on Numbers

You need the following (unique) numbers to install and activate Vantage CNM.

Serial Number	You need the serial number to register Vantage CNM Appliance at myZyXEL.com.
Authentication Code	This is a unique number that is generated in the Activate Vantage screen. You need this number to register Vantage CNM Appliance at myZyXEL.com.
License Key	You need a license key to manage up to a specified number (see the license key envelope) of ZyXEL devices.
Activation Key	The Activation Key is generated online at the myZyXEL.com (after you register Vantage) and is needed to activate Vantage.

Service Set Key	The Service Set Key is generated online at the myZyXEL.com (after you register
	Vantage) and is needed to activate Vantage.

5.2 Login

- **1** Go to http://www.myZyXEL.com using your web browser.
- 2 Log into your account if you already have one; otherwise create a new account by clicking the hyperlink in the **New User** section displayed in the following screen.

Login /	
Welcome to myZyXEL.com	
What's myZyXEL.com?	
myZyXEL.com provides an easy-to-use service management platform where you can manage all your ZyXEL product registrations and services using your praccount.	ersona
Please register your account at myZyXEL.com first.	
Log In Username: Margerie > Forgot User Name / Password? Click here Password: ******* Remember Username: 🔽 Submit Cancel	
+ Not sure if you ever registered in our system (ZSSW) before? Check here. For help? FAQ, Support Note	
New User > If you are not a registered user, Click here	

Fill in the account registration form. You will receive an e-mail from myZyXEL.com containing a hyperlink. Click the hyperlink or paste it into your web browser within three days in order to activate your account.



5.3 Register Vantage

1 After you have created a myZyXEL.com account, log in and click the hyperlink in the **Registered ZyXEL Products** section as displayed in the following screen.

Welcome /
Welcome
Welcome! You have logged in myZyXEL.com for 6 times. > Last Viewed * IP: 203.160.254.58 * Viewed Date: 2005/05/16 * Viewed time: 08:58:51(GMT+8:00)Taipei
Registered ZyXEL Products
Click here to register product Note: Currently, this registration website http://www.myzyxel.com supports Vantage CMM 2.0 and 2yXEL products service activation. For other products support, we will announce soon in our next release.
More

2 Click Add in the next screen.

My Products / Product Registration		
Product Registration		
Registered Product List		
Your registered ZyXEL products are listed her Please click the product name to see more d	e. letails.	
Name	Serial Number	Authentication Code / MAC Address
Add		

- 3 Enter the following information in the next screen and then click Register.
- Serial number: This is a 10-digit number found on the Vantage CNM product label. It identifies the model type within myZyXEL.com. Type the number exactly as shown on the label.
- Authentication Code: This is a generated number that is displayed after you install Vantage as shown in section 4.5. Type the information exactly as displayed or copy and paste it into the screen; be careful to avoid pasting trailing spaces.

• Friendly Name: This is an alias you give the product to identify it.

My Products / Product Registrat	tion
Add New Product	
Add New Product	
To add a new product, please fil Friendly Name is an alias you gi	ll in the following fields. ive the product to identify it in the product list.
Serial Number: 4534534616	Please enter the 10-digit number of the label on the unit. (Upper Case)
Category: Network Management	Product category.
* Model: Vantage CNM <mark>↓</mark>	The model number can be found on the belly label of your hardware. Example: ZyWALL 70
* Authentication Code / MAC Ad AEA6F3A965B5	For hardware products, this is the physical MAC address. Help > For software products, this is a generated number that is displayed after you install the software. (Upper Case)
* Friendly Name: MyVantage	Please give a name easy to remember for you. Up to 30 characters. It may contain letters(a~z), numbers, or underscore character, other character are not allowed.
	Register

After you have registered Vantage, a registration successful screen displays.

5.4 Generate Keys to Activate Vantage

1 The product is now registered but not activated. You need to activate Vantage before you can use it to manage ZyXEL devices. Click the name hyperlink to display its details.

My Products / Service Activation			
Service Management			
Product Info			
my¥antage €NM Serial Number: S0Z4320825 Products: Vantage Authentication Code: EF394DC95CCB			
Manage Product			
Manage this product's registration by clicking on the a > my¥antage CNM Rename Transfer	ppropriate buttons below: Delete Reinstall		
Applicable Service List			
Service Name	Service Type	Status	Expiry/Key
1 Vantage CNM Device Management	Activate Suspend Re-act	ivate -	

- 2 Click Activate to display the next screen. You use this screen to generate an Activation Key and Service Set Key. You need these keys to activate Vantage standard firmware, upgrade firmware or trial firmware.
- **Note:** You can click the **Reinstall** button to transfer your licence if you upgrade from Vantage CNM 2.0 to a later version of Vantage CNM.
- **3** Enter the license key exactly as displayed on the envelope label and click **Submit**. A screen then displays showing you the **Activation Key** and **Service Set Key** that you need to enter in step 1 of section 4.5. The keys are also sent to your myZyXEL.com registered e-mail address.

My Products / Service Activation	
Activate Service	
Please Enter the Licence Key	
> Licence Key:	
Submit Cancel	

4 Now, return to section 4.5 of this Quick Start Guide.

6 Uninstalling Vantage CNM

You must uninstall any previous versions of Vantage CNM before you install a new version of Vantage CNM. Follow this procedure to uninstall Vantage CNM.

- 1 You should first stop Vantage CNM by clicking **Stop** in the Vantage Status screen; see section 3.1 for information.
- 2 Double-click the icon as shown in the next screen or in the **Terminal** screen change the directory to where you saved Vantage CNM and type
 - ./Uninstall_Vantage_CNM
- **3** The following screen then displays. Click **Uninstall** to being uninstalling.

Location:	/root/Vantag	ge-CNM/Uninstall_Vantag	e CNM	- 100 + View as Icons
InstallScript.i 20.6 K	lap_xml	Installvariables. properties 3.5 K	uninstaller.jar 1.3 MB	Uninstall_Vantage_CNH 43.0 K
Uninstall_Van M .lax	tage_CN			



4 Click OK to continue removing Vantage CNM. You will then see the next screens.



5 The next screen displays when Vantage CNM has been removed from your computer. Click Done to finish.
 Uninstall Vantage CNM
 Uninstall Complete
 Uninstall Complete

7 Activating Vantage CNM on a ZyXEL Device

7.1 How to activate Vantage CNM on a ZyXEL device using commands

Go to command mode (SMT menu 24.8 of most ZyXEL devices) and issue the following command:

Enter cnm active. If cnm active 0 displays then Vantage CNM is disabled on the ZyXEL device. To enable Vantage CNM on the device

- **1** Enter cnm active 1.
- 2 Enter cnm managerIp x.x.x.x on the ZyXEL device where x.x.x.x is the public IP address of the Vantage CNM server.

7.2 Encrypt traffic between Vantage CNM and the ZyXEL device

- 1 Go to CI (Command Interface) mode (SMT menu 24.8 of the ZyXEL device)
- **2** Type 'cnm encrymode X' where X = 0 is no encryption, X =1 is DES encryption, X = 2 is 3DES encryption. The ZyXEL device must use the same encryption method as Vantage.
- **3** To set the encryption key (if X = 1 or 2) on the ZyXEL device, type 'cnm encrykey xxxxxxxx' where 'xxxxxxx' is the alphanumeric encryption key ("0" to "9", "a" to "z" or "A" to "Z") in the Vantage server. Type an eight-character alphanumeric ("0" to "9", "a" to "z" or "A" to "Z") for DES encryption and a 24-character alphanumeric for 3DES encryption. The ZyXEL device must use the same encryption key as Vantage

7.3 Activate Vantage CNM on a ZyXEL device and encrypt traffic using the web configurator

Log into the device web configurator, click Remote Management from the navigation panel and then click the CNM tab. Select **Enable**, enter the Vantage CNM Server (IP) Address and select an **Encryption Algorithm** and **Encryption Key** if desired.

PROBLEM	CORRECTIVE ACTION	
I am having problems installing Vantage CNM	Make sure that you have uninstalled any previous versions of Vantage CNM before beginning the installation process.	
	Make sure that you have uninstalled any existing MySQL servers; see section 2.1 for details on how to do this.	
	Spaces in the folder name or path are not allowed when you choose a location to install Vantage CNM.	
	Check that you have edited the correct files with the exact modifications as outlined in this Quick Start Guide.	
	Alter the configuration of the server memory by navigating to the file; install_path/ZYCNM_DEPLOY_BED/jboss-3.2.1_tomcat- 4.1.24/bin/run.conf	
	Find the line; JAVA_OPTS="-server -Xms1792m -Xmx1792m" and change "1792" to a smaller number; for example JAVA_OPTS="-server -Xms512m -Xmx512m".	

8 Troubleshooting

Vantage CNM is installed but I	Make sure that Vantage CNM is installed correctly on the server computer.
cannot access Vantage CNM	Make sure that the Vantage CNM server is turned on and Vantage CNM has "started"; see section 4.5 for more information.
	Make sure your computer's network card is working properly.
	Make sure that when you installed Vantage, you entered a Vantage CNM server public IP address.
	Check that you have correctly configured the server computer IP address in Vantage CNM. Stop Vantage CNM (see section 3) and open the following file path;
	file:/root/Vantage-CNM/ZYCNM_DEPLOY_BED/conf and double-click vantage.properties.
	Or in the Terminal screen, follow the commands;
	<pre>[root@localhost root]# cd Vantage-CNM/ [root@localhost root]# cd Vantage-CNM/ZYCNM_DEPLOY_BED/c conf csv</pre>
	[root@localhost root]# cd Vantage-CNM/ZYCNM_DEPLOY_BED/ conf/
	Check that the server IP address is the same as the IP address of the computer on which Vantage CNM is installed (server IP address).
	If the Vantage CNM server IP address has changed, then enter the new one as the web site address in your web browser.
	If the Vantage CNM server is behind a NAT router or firewall then do the following:
	 If the Vantage CNM server is behind a NAT router, enter the WAN Public IP address of the NAT router and configure the NAT router to forward UDP port 1864 traffic to the Vantage CNM server.
	 If the Vantage CNM server is behind a NAT router, configure the NAT router port forwarding for ports 443 and 80 to enable remote web browser access to the Vantage CNM server.
	 If the Vantage CNM server is behind a firewall, you may have to create a rule on the firewall to allow UDP port 1864 traffic through to the Vantage CNM server (most (new) ZyXEL firewalls automatically allow this).
	Make sure you have entered the Vantage CNM username and password correctly (the fields are case sensitive).
	If you did not log out of Vantage CNM gracefully last time, and you cannot log in again, then enter the following URL to forcibly log out so that you can log in again; http://localhost/vantage/pages/backdoor/Logoff.jsp
	Make sure that you have a Java applet version 1.4.2 or later installed. If you do not, install Java from the included CD.

I cannot register a ZyXEL device with Vantage CNM	The Vantage CNM server may be down. Check with the Vantage CNM server administrator.	
	Make sure that the Vantage CNM server IP address is correct.	
I can access Vantage CNM but I cannot manage ZyXEL devices	The encryption algorithms and/or encryption keys may not match between the ZyXEL device and Vantage CNM. Check that these are correct.	
	The ZyXEL device may turned off.	
	The device may not have Vantage CNM enabled.	
	The device model type may not be supported by Vantage CNM.	
	Go to CI (Command Interface) mode (SMT menu 24.8 of the ZyXEL device)	
	Enter the command cnm active 1 to enable Vantage CNM on the ZyXEL device.	
	Enter the command cnm managerIp followed by the public IP address of the Vantage CNM server; for example cnm managerIp 212.175.135.225.	
	The ZyXEL device must use the same encryption key as Vantage CNM.	

Vantage CNM

Centralized Network Management

Quick Start Guide

Version 2.2 (Windows) 9/2005



Overview

Vantage Centralized Network Management 2.2 (CNM) is a browser-based, management solution that allows you to easily configure, manage and monitor ZyXEL devices from any location. Vantage Centralized Network Management 2.2 will be referred to as "Vantage CNM" in this document.

This Quick Start Guide shows you to install Vantage CNM. See the User's Guide for more information.

The following figure displays a Vantage CNM application:

- 1 This is the Vantage CNM "client" that manages ZyXEL devices via the Vantage CNM "server".
- 2 The Vantage CNM "server" is the computer with Vantage CNM software installed.
- 3 These are the ZyXEL devices being managed by Vantage CNM.



This Quick Start Guide shows you:

- 1 The Vantage CNM Requirements
- **2** A Vantage CNM Installation Procedure
- 3 How to Access Vantage CNM
- 4 How to register Vantage with myZyXEL.com
- 5 How to Uninstall Vantage CNM
- 6 How to Activate Vantage CNM on a ZyXEL Device
- 7 Troubleshooting

1 Requirements

1.1 Vantage CNM Server Requirements

Hardware	CD-ROM or DVD-ROM drive
Hard Disk	80 GB or more
Software	Windows XP Professional
	Vantage CNM
CPU	Pentium IV 2.8 GHz or faster
RAM	2 GB or more
Browser	Internet Explorer 6.0 or above with 1024*768 resolution

1.2 Vantage CNM Client Recommended Requirements

CPU	Pentium III 450 MHz or faster
RAM	256 MB or more
Operating System	Microsoft Windows XP Professional SP1 or SP2 (Service Pack 1 or 2)
Browser	Internet Explorer 6.0 or above with 1024*768 screen resolution

1.3 ZyXEL Device Requirements

FirmwareFor details, see the Vantage CNM software release notes.Please read the device release note carefully if you have to upload
new device firmware.

2 Vantage CNM Installation Procedure

If you already have a previous version of Vantage CNM installed, install the upgrade patch. If you are using a syslog server, make sure you back up the existing "vantage" database before you proceed with the patch upgrade.

2.1 Vantage CNM Installation Overview

- Use the Vantage CNM installation wizard to install Vantage CNM server software.
- **Note:** In each wizard screen, click **Next** to proceed to the next screen in the wizard, click **Back** to return to the previous screen or click **Cancel** to abort the installation and exit the wizard.
- **1** Insert the Vantage CD into the CD-ROM or download the Vantage software and save it to the Vantage server computer.

2 Double-click the Vantage executable file to begin the file extraction process.



- 3 The Vantage CNM logo appears briefly during extraction.
- 4 Click Next in the Vantage Welcome screen to begin the installation wizard.

Vantage CNM 2.2 Setup	
V	Welcome to the InstallShield Wizard for Vantage CNM 2.2 The InstallShield® Wizard will install Vantage CNM 2.2 on your computer. To continue, click Next.
	Kext Cancel
	ZyXEL

5 Read the license agreement and then click Yes to proceed to the next screen.



6 Enter your name and your company name in the next screen. Click Next to proceed.

Vantage CNM 2.2 Setup		
Customer Information Please enter your information.		
Please enter your name and the name of the co	ompany for whom you work.	
User Name:		
CNM		
Company Name:		
Zyxel		
InstallShield		
	< Back Next >	Cancel

7 Decide where Vantage should be installed in the next screen. To install to the default folder, click **Next**. To install to a different folder, click **Browse**, navigate to the new folder and then click **Next**.

Vantage CNM 2.2 Setup	
Choose Destination Location Select folder where Setup will install files.	
Setup will install Vantage CNM 2.2 in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse an another folder.	nd select
Destination Folder C:\Program Files\ZyXEL\Vantage CNM 2.2	Browse
InstallShield	Cancel

8 Review your settings in this screen and then click **Next** to begin copying files or click **Back** to return to a previous screen to change the settings.

Van	tage CNM 2.2 S	etup	×
SI	tart Copying Files Review settings bef	ore copying files.	
	Setup has enough i change any settings copying files.	nformation to start copying the program files. If you want to review o s, click Back. If you are satisfied with the settings, click Next to begi	r n
	Current Settings:		
	User:	CNM	~
	Company:	ZyXEL	
	Destination Folder:	C:\Program Files\ZyXEL\Vantage CNM 2.2	
			V
	<		>
Insta	llShield ———		
		<back next=""> C.</back>	ancel

9 Wait while Vantage installs or click **Cancel** to abort the installation.

Vantage CNM 2.2 Setup	
Setup Status	
Vantage CNM 2.2 Setup is performing the requested operations.	
Installing:	
C:\\ZyXEL\Vantage CNM 2.2\j2sdk1.4.2_06\jre\bin\server\jvm.dll	
9%	
InstallShield	
	Cancel

- **10** The next screen asks you if you want to configure FTP, SMTP (mail) and syslog servers now or after you activate Vantage.
 - The FTP server is used for file transfers, such as firmware upgrade.
 - The SMTP server is used for e-mail notifications.
 - The syslog server is used to receive logs. The syslog server you configure for a device and the syslog server you configure for Vantage *MUST* be the same.

You should know each server's IP address, username and password. File transfers (FTP), e-mail notifications (SMTP) or log reports (syslog) will not work in Vantage if these are incorrectly configured.

If you select **No, configure it later**, you must set up each server in the **System > Preferences > Server** screen in Vantage CNM.

Vantage CNM 2.2 Setup			X
Setup Type Choose the setup type that best suits your nee	ds.		
Do you want to configure FTP, SMTP (mail) an Vantage?	id syslog servers ni	ow or after you	activate
Yes, configure it now.			
No, configure it later.			
InstallShield			
	< Back	Next >	Cancel

Alternatively, if you select Yes, configure it now and click Next, you go to the following screen.

Note: See the User's Guide Appendices for examples of setting up syslog and FTP servers.

11 Enter your FTP server IP address, user name and associated password.

Vantage CNM	A 2.2 Setup			
Edit Data Enter reque	ested data.			
Specify FTF	P Server			
Address	192.168.1.224			
User	Tester			
Password	1234			
InstallShield —		< Back	Next>	Cancel

12 Enter your mail server IP address or URL, user name and associated password in the next screen.

Vantage CNM	2.2 Setup				X
Edit Data Enter reque	sted data.				
Specify Ma	lServer				
Address	1.1.1.1				
User	Mail_Tester				
Password	1234				
InstallShield —		< 8	ack	Next >	Cancel

13 Enter the syslog server IP address, user name and associated password in the next screen.

Vantage CNM	2.2 Setup			
Edit Data Enter reque	sted data.			
Specify Sys	Log Server			
Address	1.1.2.3			
User	SysLog_Tester			
Password	1234			
InstallShield —		< Back	Next >	Cancel

14 The syslog server must be a syslog server running on a Kiwi syslog server for Windows¹ (see the Kiwi website for details).

^{1.} At the time of writing, only this syslog server is supported and is not bundled with Vantage CNM.

Vantage communicates with a Windows (Kiwi) syslog server using Telnet, so you must enable Telnet on the Windows (Kiwi) syslog server. See the User's Guide Appendices for information on setting up a Kiwi server on Windows.

Vantage CNM 2.2 Setup			X
Setup Type Choose the setup type that best suits your need	s.		
Select syslog server type			
C Linux Syslog Server.			
C Kiwi for Windows.			
InstallShield	< Back [Next >	Cancel

15 A different file path displays depending on which syslog server type you choose. You may need to modify the directory according to where the syslog server is located. For example; if

C:\ProgramFiles\Syslogd\log\vantage.log displays, you may have to modify "ProgramFiles" to the Kiwi server directory and change "log" to "logs". This can also be changed after you have installed Vantage CNM. Go to the System Log Path field in System > Preferences > Server screen.

Vantage CNM 2.2 Setup		
Edit Data Enter requested data.		
Specify the location of the Syslog file		
Directory: //var/log/vantage.log		
InstallShield	< Back Next >	Cancel

16 The next screen asks you to configure the Vantage CNM server public address. This is the IP address that the ZyXEL devices use to communicate with Vantage CNM. Follow the instructions in the screen. If Vantage CNM is behind a NAT router, then you need to enter the public IP address (WAN) of the NAT router.

Vantage CNM 2.2 Setup	
Edit Data Enter requested data.	
Specify Vantage CNM Server Public IP	
Public IP 192.168.1.1	
InstallShield	< Back Next > Cancel

Port forwarding must also be enabled on the NAT router. If the Vantage CNM server and the other servers Vantage CNM uses are behind a NAT router, then allow traffic to be forwarded to the following ports on the NAT router:

Vantage CNM Server:	1864, 443
Syslog Server:	514
FTP Server:	20, 21
Telnet Server:	23
Mail Server:	25

17 Click **Finish** to close the Wizard.

Vantage CNM 2.2 Setup	
	InstallShield Wizard Complete Setup has finished installing Vantage CNM 2.2 on your computer.
	K Back Finish Cancel

18 The next screen reminds you to disable any web servers you may already have running on the Vantage server computer before restarting. Click **OK** to go to the restart screen

Vantage	X
Before starting Vantage CNM 2.2, you must first OK	disable all Web servers running in your system.
	ZyXEL

19 You must restart the computer for Vantage to completely install. You must disable web servers before you restart Vantage. After you have disabled web server(s), click **Finish** and wait while Vantage installs and your computer restarts.



2.2 Windows Services

Vantage is a Windows service, so you may start, stop or resume Vantage in the Services window. You can also enable/disable Telnet and SSH services from here.

2.2.1 Disable Web Servers

Follow this procedure to disable any web servers you may have running on the Vantage server before installing Vantage CNM.





2 The Services screen opens.

Services							$\left \times \right $
Eile Action View	Help						
+ +							
Services (Local)							
(a) Dervices (cocal)	Services (Local)						
		Name /	Description	Chabur	Shavburg Turne	Log Op Ac	
	Select an item to view its description.	Maine /	Netificated	Judius	Juarcup Type	Log Of AS	
		Alerter	Notiries set		manual	Local Service	
		Application Magazine	Provides s		Manual	Local Service	
		Application Management	Frovides s	Chashed	Manual	Local System	
		Bedansund Tetelinget Tee	Lindbles un	Charled	Macunal	Local System	
		Background Intelligent Tra	Cashlas Ch	Starteu	Manual	Local System	
		Com Com Event Sustan	Enables Cl	Chashed	Manual	Local System	
		COM+ Event System	Supports 5	Started	Manual	Local System	
		COM+ System Application	Manages	Charles A.	Manual	Local System	
		B Computer Browser	Maintains a	Started	Aucomatic	Local System	
		Cryptographic services	Provides d1	Charled	Automatic	Local System	
		B Distribute of Link Translation of	Manages n	Charled	Automatic	Local System	
		Bublich and Tracking Cl	Maincains II	Started	Aucomatic	Local System	
		B Discributed transaction co	Coordinate	channel.	Manual	Network 5	
		Barrow Department Consider	Resulves a	Charled	Automatic	Neuwork 5	
		B. F. S. L. S.	Allows erro	Started	Aucomatic	Local System	
		age Event Log	Enables ev	Started	Aucomatic	Local System	
		A set User Switching Comp	Provides m	Started	Manual	Local System	
		Mightelp and Support	Enables He	Started	Automatic	Local System	
		Human Interface Device A	Enables ge		Disabled	Local System	
		A STIMAPT CD-Burning COM Se	Manages C		Manual	Local System	
		ndexing Service	Indexes co		Manual	Local System	
		Internet Connection Firew	Provides n	2000	Manual	Local System	
		IPSEC Services	Manages I	Started	Automatic	Local System	
		Sectorical Disk Manager	Detects an	Started	Automatic	Local System	
		Sector Contraction Contractico	Configures		Manual	Local System	
		Messenger	Transmits	Started	Automatic	Local System	
		MS Software Shadow Cop	Manages s		Manual	Local System	
		Net Logon	Supports p		Manual	Local System	
		NetMeeting Remote Deskt	Enables an	22000072	Manual	Local System	
		Network Connections	Manages o	Started	Manual	Local System	
		Network DDE	Provides n		Manual	Local System	
		Network DDE DSDM	Manages D		Manual	Local System	×
	Fytended Standard	New Matwork Location Aussiana	Collecte an	Startod	Manual	Local Sustam	 _

3 Right-click the (running) service you want to disable and click **Stop**. (You may also choose to start, stop or resume Vantage in this way.)



2.3 Vantage Dependencies

If you have problems accessing Vantage, make sure MySQL is up and running. Right-click Vantage from the **Services** screen as shown above, select **Properties** (as shown in the previous screen) and then click the **Dependencies** tab to see that Vantage requires MySQL. Make sure it is installed and running by checking the **Services** screen. If it isn't running, right-click MySQL, select **Properties** and then select **Start** (or **Stop** then **Resume**).

MySQL Properties (Local Computer)
General Log On Recovery Dependencies
Some services depend on other services, system drivers and load order groups. If a system component is stopped or is not running properly, dependent services can be affected.
MySql
This service depends on the following system components
The following system components depend on this service
OK Cancel Apply

2.4 Vantage Recovery Options

You can also choose Vantage recovery options by doing the following. Right-click Vantage from the **Services** screen, select **Properties** and click the **Recovery** tab.

MySQL Properties (Local	Computer) 🛛 🛛 🛛 😨 🔀					
General Log On Recovery	very Dependencies					
Select the computer's respon	ise if this service fails.					
First failure:	First failure: Take No Action					
Second failure:	Take No Action 👻					
Subsequent failures:	Take No Action 💌					
Reset fail count after:	0 days					
Restart service after:	1 minutes					
Run program						
Program:						
Command line parameters: Append fail count to end of command line (/fail=%1%) Restart Computer Options						
	OK Cancel Apply					

2.5 Vantage CNM Icons

After your computer restarts, you will see the following Vantage icons in the system tray (bottom right of your computer screen) indicating the status of Vantage.

VANTAGE CNM ICON	DESCRIPTION
V	A green icon indicates Vantage is starting.
V	A blue icon indicates Vantage has started. You may right-click this icon run (START), pause (STOP) or quit (EXIT) Vantage CNM. When you exit Vantage the icon disappears from the system tray.
V	A red icon indicates Vantage has stopped.

If you have exited Vantage and wish to restart, click **Start**, **All Programs**, **ZyXEL**, **Vantage CNM**, **Vantage Status Monitor** to bring back the Vantage icon to the system tray.



3 Accessing Vantage CNM

3.1 IP Address

- 1 From the Vantage CNM client computer, open your web browser and type https://{Vantage CNM server IP address}/vantage or simply https://{Vantage CNM server IP address}.
- 2 When the login screen appears, type root as Username, root as the Password (factory defaults) and click OK. You may see a screen asking you if Windows should remember this password. If this is a shared computer, Windows should not remember your password.
- 3 You may see another screen advising that this is a HTTPS connection. Click Yes to continue.



3.2 Login

1 Enter **root** for both Username and Password and then click **OK**. You should change your password after first login; see the User's Guide for more information.



3.3 Install Java Plug-in

1 You may be asked to install a Java plug-in on the Vantage CNM computer. Install it. The Vantage CNM server must be connected to the Internet to download the plug-in. If you already have a Java plug-in installed on your computer, you can download the latest version from http://java.com.



2 Select the I accept the terms in the license agreement radio button and click the Next.

3 Click **Typical** and then click **Next** to begin the Java plug-in installation.



4 Wait for the Java plug-in to finish installing.



3.4 HTTPS Certificates

HTTPS is used to access the Vantage CNM server. A series of warning screens related to HTTPS certificate information appears. Click **Yes** (or **Always**) in each to continue.



3.5 Activate Vantage

1 The next screen appears asking you to enter the Activation Key and Service Set Key generated at www.myZyXEL.com. See section 4 if you have not yet registered and activated Vantage there. Afterwards, enter these fields and then click Next to continue.

ZyXEL VA	NTAGE	tralized Network Management 2.2
MyZyXEL.com is ZyXEL's online s	ervices center. Bef	ore continuing you must do the following:
 Go to myZyXEL.com. If you haven't already got a raccount by filling in the (nev After successful account or number. After you have registered Va MyZyXEL.com then generat screen. 	myZyXEL.com login w) account registrati eation, register Vant antage CNM, activate es an Activation Key	username and password, then create an on form. age CNM. You will be asked for the serial e it. You will be asked for the license key. and Service Set Key that you enter in the next
Authentication Code :	BFB00F14B536	
Activation Key :		

2 The next screen asks you to configure the Vantage server public address. This is the IP address that the ZyXEL devices use to communicate with Vantage. Follow the instructions in the screen. If Vantage is

behind a NAT router, then you need to enter the public IP address (WAN) of the NAT router. Click **Next** to go to the main screen.

ZyXEL	VA	NTAGE Centralized Network Management 2.2
You must type a public IP with Vantage CNM throug	address	: for the Vantage CNM 2.2 server, so that devices can register ernet.
Vantage CNM Server p	ıblic IP:	192.168.1.1
Next		
		the second s

3 See the User's Guide for details on the Vantage main screen.



4 myZyXEL.com

http://www.myZyXEL.com/ is ZyXEL's online services center where you must register Vantage and generate an **Activation Key** and **Services Set Key** that you enter in step 1 of section 3.5.

4.1 A Note on Numbers

You need the following (unique) numbers to install and activate Vantage CNM.

Serial Number	You need the serial number to register Vantage CNM Appliance at myZyXEL.com.
Authentication Code	This is a unique number that is generated in the Activate Vantage screen. You need this number to register Vantage CNM Appliance at myZyXEL.com.
License Key	You need a license key to manage up to a specified number (see the license key envelope) of ZyXEL devices.
Activation Key	The Activation Key is generated online at the myZyXEL.com (after you register Vantage) and is needed to activate Vantage.
Service Set Key	The Service Set Key is generated online at the myZyXEL.com (after you register Vantage) and is needed to activate Vantage.

4.2 Login

- 1 Go to http://www.myZyXEL.com using your web browser.
- 2 Log into your account if you already have one; otherwise create a new account by clicking the hyperlink in the **New User** section displayed in the following screen.

What's myZyXEL.com?	
myZyXEL.com provides an easy- where you can manage all your 2 account.	to-use service management platform ZyXEL product registrations and services using your perso
Please register your account at r	nyZyXEL.com first.
Log In	
Username: Margerie	Forgot User Name / Password? Click here
Submit Cancel	
Not sure if you ever registered	d in our system (ZSSW) before? Check bere .
For help? FAQ, support Note	
New User	r. Click berg

Fill in the account registration form. You will receive an e-mail from myZyXEL.com containing a hyperlink. Click the hyperlink or paste it into your web browser within three days in order to activate your account.



4.3 Register Vantage

1 After you have created a myZyXEL.com account, log in and click the hyperlink in the **Registered ZyXEL Products** section as displayed in the following screen.

Welcome /
Welcome
Welcome! You have logged in myZyXEL.com for 6 times.
> Last Viewed * IP: 203.160.254.58 * Viewed Date: 2005/05/16 * Viewed time: 08:58:51(GMT+8:00)Taipei
Registered ZyXEL Products
Click here to register product Note: Currently, this registration website http://www.myzyxel.com supports Vantage CNM 2:0 and 2yXEL products service activation. For other products support, we will announce soon in our next release.
More

2 Click Add in the next screen.

My Products / Product Registration					
Product Registration					
Registered Product List					
Your registered ZyXEL products are listed her Please click the product name to see more d	e. letails.				
Name	Serial Number	Authentication Code / MAC Address			
Add					

- 3 Enter the following information in the next screen and then click Register.
- Serial number: This is a 10-digit number found on the Vantage CNM product label. It identifies the model type within myZyXEL.com. Type the number exactly as shown on the label.
- Authentication Code: This is a generated number that is displayed after you install Vantage as shown in section 3.5. Type the information exactly as displayed or copy and paste it into the screen; be careful to avoid pasting trailing spaces.

• Friendly Name: This is an alias you give the product to identify it.

My Products / Product Registrat	tion
Add New Product	
Add New Product	
To add a new product, please fil Friendly Name is an alias you gi	ll in the following fields. ive the product to identify it in the product list.
Serial Number: 4534534616	Please enter the 10-digit number of the label on the unit. (Upper Case)
Category: Network Management	Product category.
* Model: Vantage CNM <mark>↓</mark>	The model number can be found on the belly label of your hardware. Example: ZyWALL 70
* Authentication Code / MAC Ad AEA6F3A965B5	For hardware products, this is the physical MAC address. Help > For software products, this is a generated number that is displayed after you install the software. (Upper Case)
* Friendly Name: MyVantage	Please give a name easy to remember for you. Up to 30 characters. It may contain letters(a~z), numbers, or underscore character, other character are not allowed.
	Register

After you have registered Vantage, a registration successful screen displays.

4.4 Generate Keys to Activate Vantage

1 The product is now registered but not activated. You need to activate Vantage before you can use it to manage ZyXEL devices. Click the name hyperlink to display its details.

My Products / Service Activation Service Management				
Product Info				
myVantage €NM Serial Number: S0Z4320825 Products: Vantage Authentication Code: EF394DC95CCB				
Manage Product				
Manage this product's registration by dicking on the > myVantage CNM Rename Transfer	e appropriate buttons below: Delete Reinstall			
Applicable Service List				
Service Name	Service Type	Status	Expiry/Key	
1 Vantage CNM Device Management	Activate Suspend Re-activate			

- 2 Click Activate to display the next screen. You use this screen to generate an Activation Key and Service Set Key. You need these keys to activate Vantage standard firmware, upgrade firmware or trial firmware.
- **Note:** You can click the **Reinstall** button to transfer your licence if you upgrade from Vantage CNM 2.0 to a later version of Vantage CNM.
- **3** Enter the license key exactly as displayed on the envelope label and click **Submit**. A screen then displays showing you the **Activation Key** and **Service Set Key** that you need to enter in step 1 of section 3.5. The keys are also sent to your myZyXEL.com registered e-mail address.

My Products / Service Activation
Activate Service
Please Enter the Licence Key
> Licence Key:
Submit Cancel

4 Now, return to section **3.5** of this Quick Start Guide.

5 Uninstalling Vantage CNM

Follow this procedure to uninstall Vantage CNM.

1 You should first stop Vantage CNM by right-clicking the Vantage icon and clicking **STOP**; _____



2 Click Start, Control Panel. Doubleclick Add or Remove Programs. Highlight Vantage CNM and click Change/Remove.

🐻 Add or Rei	move Programs				
-	Currently installed programs:	≦ort by:	Name		*
Change or	🔠 Broadcom Driver Installer				^
Remove Programs	19 Broadcom Management Programs		Size	0.91MB	
	19 Corel Uninstaller				
	CuteFTP		Size	2.80MB	
Add New	Lasy Access Button Support		Size	2.89MB	
Programs	🔂 Intel(R) Extreme Graphics 2 Driver		Size	2.22MB	
F	Internet Explorer Q832894				
Add/Remove	🔀 Java 2 Runtime Environment, SE v1.4.1		Size	1.23MB	
Windows	🔀 Java Web Start		Size	2.08MB	
Components	💏 Kiwi Syslog Daemon		Size	3.75MB	
	Hicrosoft Office 2000 SR-1 Premium		Size	200.00MB	
Set Program	🗐 Outlook Express Update Q330994				2
Access and	SoundMAX		Size	11.44MB	
Deraults	Trend Micro OfficeScan Client		Size	46.56MB	8
	G Vantage CNM		Size	<u>1.70M</u>	
	To change this program or remove it from your computer, dick Change/Remove.		Chang	je/Remove)
	Windows XP Hotfix - KB810217				
	w Windows XP Hotfix - KB821557				~

3 Select Remove and then click Next.

InstallShield Wizard
Welcome Modify, repair, or remove the program.
Welcome to the Vantage2.0 Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Modify Select new program components to add or select currently installed components to remove.
 Repair Reinstall all program components installed by the previous setup.
Remove all installed components.
Confirm File Deletion
Do you want to completely remove the selected application and all of its components?

- 4 Click **OK** to continue removing Vantage.
- **5** Wait while Vantage uninstalls. If you see a **Locked File Detected** screen, select **Don't display this message again** and then click **Reboot** (to delete the file when the computer restarts) to continue.

6 Click **Finish** to restart the computer and complete the Vantage uninstallation.



6 Activating Vantage CNM on a ZyXEL Device

6.1 How to activate Vantage CNM on a ZyXEL device using commands

Go to command mode (SMT menu 24.8 of most ZyXEL devices) and issue the following command:

Enter cnm active. If cnm active 0 displays then Vantage CNM is disabled on the ZyXEL device. To enable Vantage CNM on the device

- **1** Enter cnm active 1.
- 2 Enter cnm managerIp x.x.x.x on the ZyXEL device where x.x.x.x is the public IP address of the Vantage CNM server.

6.2 Encrypt traffic between Vantage CNM and the ZyXEL device

- 1 Go to CI (Command Interface) mode (SMT menu 24.8 of the ZyXEL device)
- **2** Type 'cnm encrymode X' where X = 0 is no encryption, X =1 is DES encryption, X = 2 is 3DES encryption. The ZyXEL device must use the same encryption method as Vantage.
- **3** To set the encryption key (if X = 1 or 2) on the ZyXEL device, type 'cnm encrykey xxxxxxxx' where 'xxxxxxx' is the alphanumeric encryption key ("0" to "9", "a" to "z" or "A" to "Z") in the Vantage server. Type an eightcharacter alphanumeric ("0" to "9", "a" to "z" or "A" to "Z") for DES encryption and a 24-character alphanumeric for 3DES encryption. The ZyXEL device must use the same encryption key as Vantage

6.3 Activate Vantage CNM on a ZyXEL device and encrypt traffic using the web configurator

Log into the device web configurator, click **Remote Management** from the navigation panel and then click the **CNM** tab. Select **Enable**, enter the Vantage CNM Server (IP) Address and select an **Encryption Algorithm** and **Encryption Key** if desired.

7 Troubleshooting

PROBLEM	CORRECTIVE ACTION	
I am having problems installing Vantage CNM	Make sure that you have uninstalled any previous versions of Vantage CNM before beginning the installation process.	
	Make sure that you have uninstalled any existing MySQL servers; see section 2.1 for details on how to do this.	
	Spaces in the folder name or path are not allowed when you choose a location to install Vantage CNM.	
Vantage CNM is installed but I	Make sure that Vantage CNM is installed correctly on the server computer.	
cannot access Vantage CNM	Make sure that the Vantage CNM server is turned on and Vantage CNM has "started"; see section 3.5 for more information.	
	Make sure your computer's network card is working properly.	
	Make sure that when you installed Vantage, you entered a Vantage CNM server public IP address.	
	Check that you have correctly configured the server computer IP address in Vantage CNM.	
	Check that the server IP address is the same as the IP address of the computer on which Vantage CNM is installed (server IP address).	
	If the Vantage CNM server IP address has changed, then enter the new one as the web site address in your web browser.	
	Make sure you have entered the Vantage CNM username and password correctly (the fields are case sensitive).	
	If you did not log out of Vantage CNM gracefully last time, and you cannot log in again, then enter the following URL to forcibly log out so that you can log in again; http://localhost/vantage/pages/backdoor/Logoff.jsp	
	Make sure that you have a Java applet version 1.4.2 or later installed. If you do not, install Java from the included CD.	

	If the Vantage CNM server is behind a NAT router or firewall then do the following:
	 If the Vantage CNM server is behind a NAT router, enter the WAN Public IP address of the NAT router and configure the NAT router to forward UDP port 1864 traffic to the Vantage CNM server.
	 If the Vantage CNM server is behind a NAT router, configure the NAT router port forwarding for ports 443 and 80 to enable remote web browser access to the Vantage CNM server.
	 If the Vantage CNM server is behind a firewall, you may have to create a rule on the firewall to allow UDP port 1864 traffic through to the Vantage CNM server (most (new) ZyXEL firewalls automatically allow this).
I cannot register a ZyXEL device with Vantage CNM	The Vantage CNM server may be down. Check with the Vantage CNM server administrator.
	Make sure that the Vantage CNM server IP address is correct.
I can access Vantage CNM but I cannot manage ZyXEL devices	The encryption algorithms and/or encryption keys may not match between the ZyXEL device and Vantage CNM. Check that these are correct.
	The ZyXEL device may turned off.
	The device may not have Vantage CNM enabled.
	The device model type may not be supported by Vantage CNM.
	Go to CI (Command Interface) mode (SMT menu 24.8 of the ZyXEL device)
	Enter the command cnm active 1 to enable Vantage CNM on the ZyXEL device.
	Enter the command cnm managerIp followed by the public IP address of the Vantage CNM server; for example cnm managerIp 212.175.135.225.
	The ZyXEL device must use the same encryption key as Vantage CNM.