

Vantage CNM 2.0

Centralized Network management

Quick Start Guide

Version: 2.0.00.81.10

July 2004



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1 Introduction to Vantage

Vantage Centralized Network Management 2.0 (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 2.0 will be referred to as “Vantage CNM” or simply “Vantage” in this document.


This Quick Start Guide shows you to install and configure Vantage CNM on Redhat Linux 9.0. See Vantage CNM 2.0 Centralized Network management Quick Start Guide, version: 2.0.00.61.00 for information on how to install and configure Vantage CNM on Windows XP professional.

2 Vantage Requirements

2.1 Vantage Server Requirements

CPU	Intel Pentium 4, 2.6 GHz or faster
RAM	1GB or more
Hard Drive	80GB
Operating System	Linux Redhat 9.0

2.2 Vantage Client Requirements

CPU	Intel Pentium III, 450MHz or faster
RAM	256MB or more
Web Browser	 Internet Explorer 6.0 or later

2.3 ZyXEL device requirements

<p>Firmware</p>	<p>This Vantage release can manage up to 300 ZyXEL devices.</p> <p>The ZyXEL device must have Vantage CNM-enabled firmware.</p> <p>At the time of writing, devices supported were ZyWALL 2, ZyWALL 2X, ZyWALL 5, ZyWALL 10W, ZyWALL 35, ZyWALL 70 and Prestige 652HW-31/33/37. For more details, see the Vantage software release notes.</p> <p>Please read the device release note carefully if you have to upload new device firmware.</p>
<p>How to activate Vantage on a device using commands.</p>	<p>Go to command mode (SMT menu 24.8 of most ZyXEL devices) and issue the following two commands:</p> <ol style="list-style-type: none">1. Enable Vantage on the device by entering "CNM active 1".2. If the Vantage server is on the same subnet as the ZyXEL device enter "CNM ManagerIp x.x.x.x" on the ZyXEL device where "x.x.x.x" is the IP address (private or public) the Vantage server. <p>If the Vantage server is on a different subnet to the ZyXEL device, enter "CNM ManagerIp x.x.x.x" on the ZyXEL device where "x.x.x.x" is the public IP address of the Vantage server.</p> <p>If the Vantage CNM server is on a different subnet to the ZyWALL and is behind a NAT router, enter the WAN IP address of the NAT router here and configure the NAT router to forward UDP port 1864 traffic to the Vantage CNM server.</p> <p>If the ZyXEL device 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).</p>

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<p>Encrypt traffic between Vantage and the device by doing the following:</p>	<ol style="list-style-type: none">1. Go to CI (Command Interface) mode (SMT 24.8 for devices with SMT menus)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
<p>How to activate Vantage on a device and encrypt traffic using the web configurator.¹</p>	<p>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.</p>
<p>The ZyXEL device will not be able to register with Vantage if:</p>	<ul style="list-style-type: none">o The Vantage CNM server is down.o The Vantage CNM server IP address is incorrect.o The Vantage CNM server is behind a NAT router or firewall that does not forward packets through to the Vantage CNM server.o The encryption algorithms and/or encryption keys do not match between the ZyXEL device and Vantage.

3 Vantage Installation Procedure

Use the Vantage installation wizard to install Vantage CNM 2.0 server software.

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 Not available at the time of writing

You should **uninstall** any previous versions of Vantage before beginning.

3.1 Extracting Vantage

1. Insert the Vantage CD into the CD-ROM or download the Vantage software and save it to a folder, for example, /usr/Vantage-2.0.
2. Navigate to this folder using the “cd” command and type the following to extract the Vantage files.

```
./Vantage_CNM_2_0.bin
```

(You may need to make the file executable first using `chmod +x Vantage_CNM_2_0.bin`)

```
[root@localhost CNM2.0]# chmod +x Vantage_CNM_2_0.bin
[root@localhost CNM2.0]# ls -l Vantage_CNM_2_0.bin
-rwxr-xr-x  1 root  root  114035074 Jun 23 07:30 Vantage_CNM_2_0.bin
[root@localhost CNM2.0]# ./Vantage_CNM_2_0.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...
```

Figure 1 Extracting Vantage

Alternatively, double-click the Vantage_CNM_2_0.bin icon.

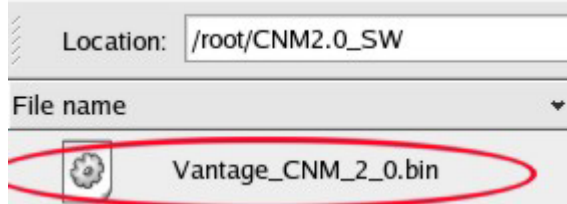


Figure 2 Extracting Vantage Icon

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

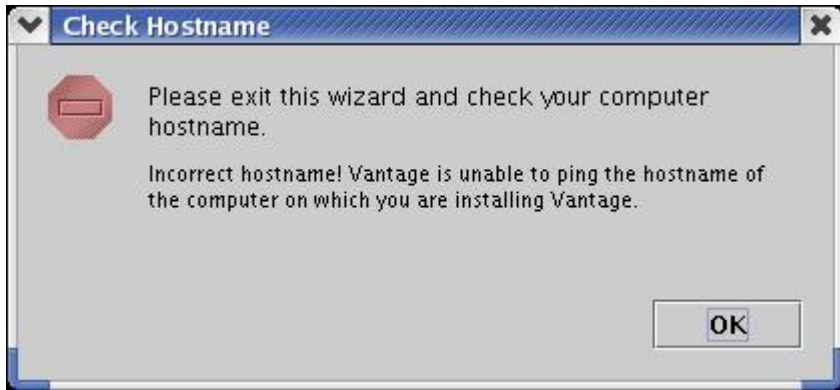


Figure 3 Vantage Pings Hostname

4. The Vantage CNM logo appears briefly when extraction begins.

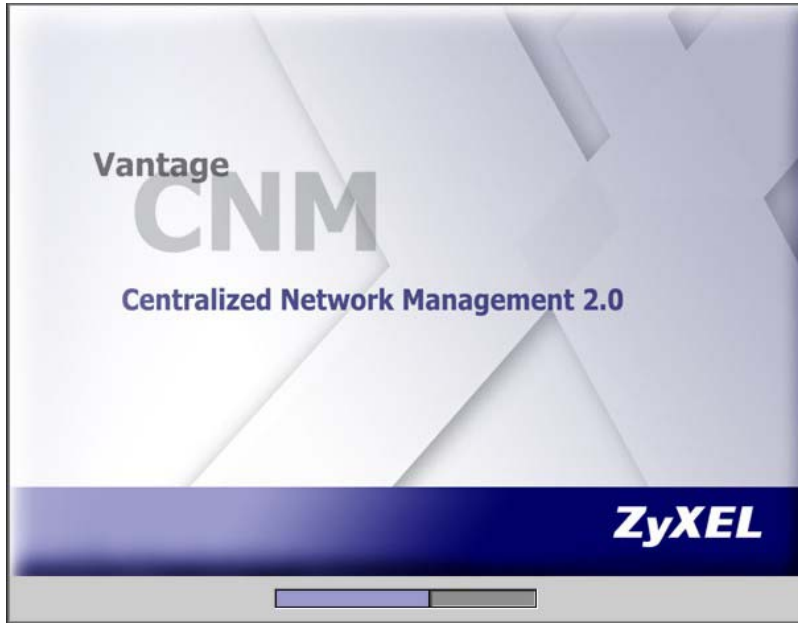


Figure 4 Vantage CNM Logo

3.2 Installation Wizard

5. The first wizard screen appears after successful extraction. You should uninstall any existing MySQL servers and remove the /etc/my.cnf directory. You should prepare all FTP, SMTP and syslog server IP addresses and login names/passwords (for syslog on Windows, you need a Telnet login name and password, for syslog on Linux, you need an SSH login name and password. You can configure these servers during the wizard installation or after you install Vantage in the **System > Preferences > Servers** screen.

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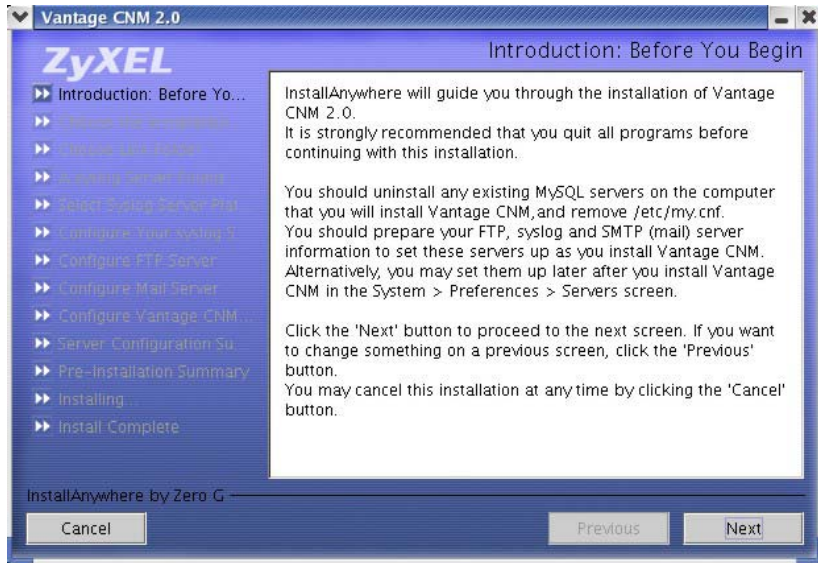


Figure 5 Wizard 1: Before You Begin

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

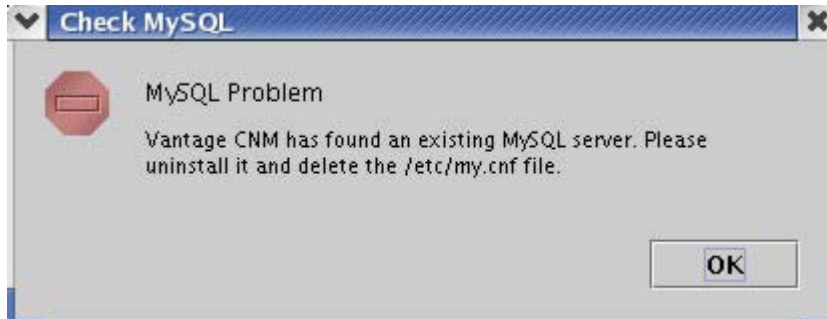


Figure 6 Existing MySQL Server Detected

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

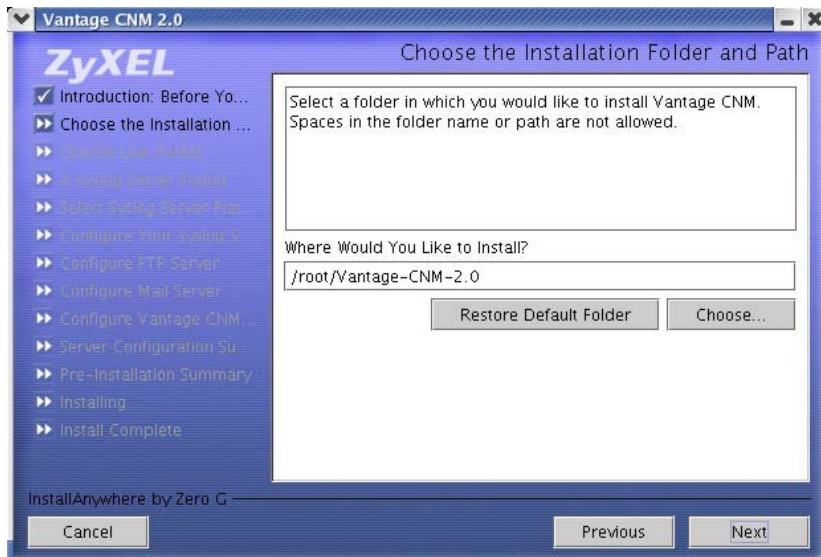


Figure 3 Choose Installation Folder

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

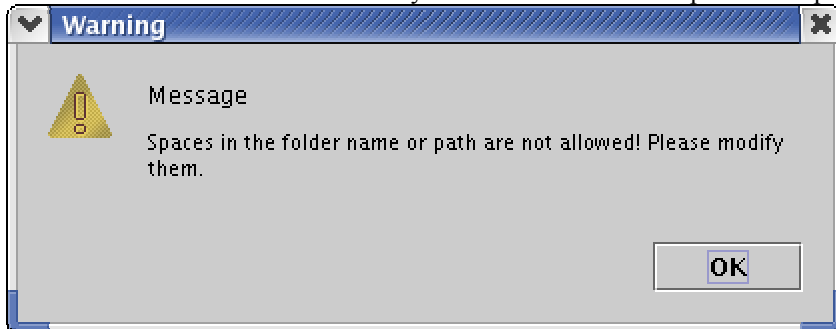


Figure 7 – Path Space Error

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

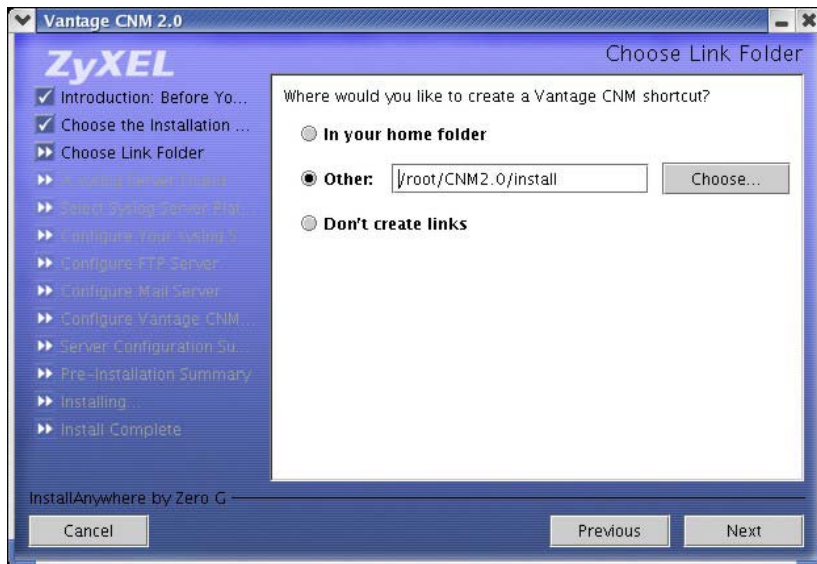


Figure 8 Select Folder

8. You next configure a syslog server. syslog is a logging system that is used by most versions of UNIX. If Vantage 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**.

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

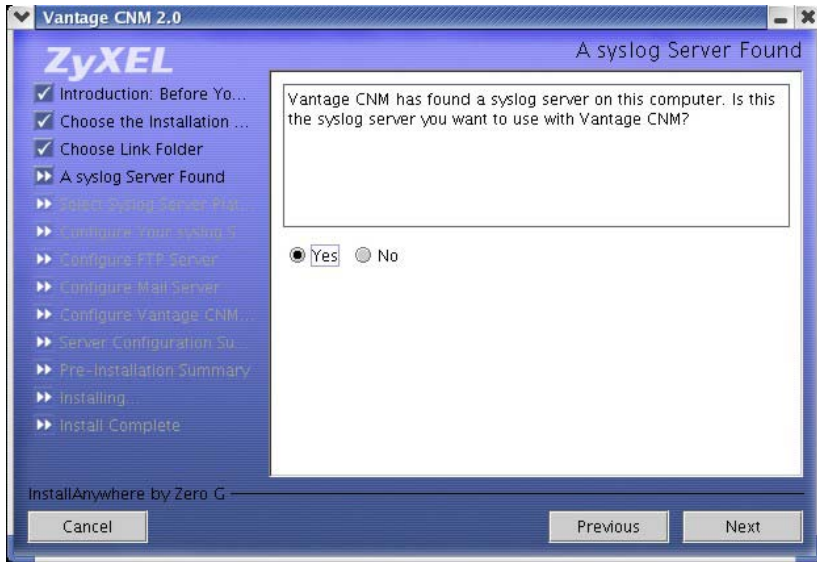


Figure 9 Existing syslog Found

9. If you choose **Yes** in *Figure 9*, you will then see the next screen. You must create a Telnet account set up on the syslog server. Vantage (on Linux) uses SSH (on Windows, Vantage uses Telnet) 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.

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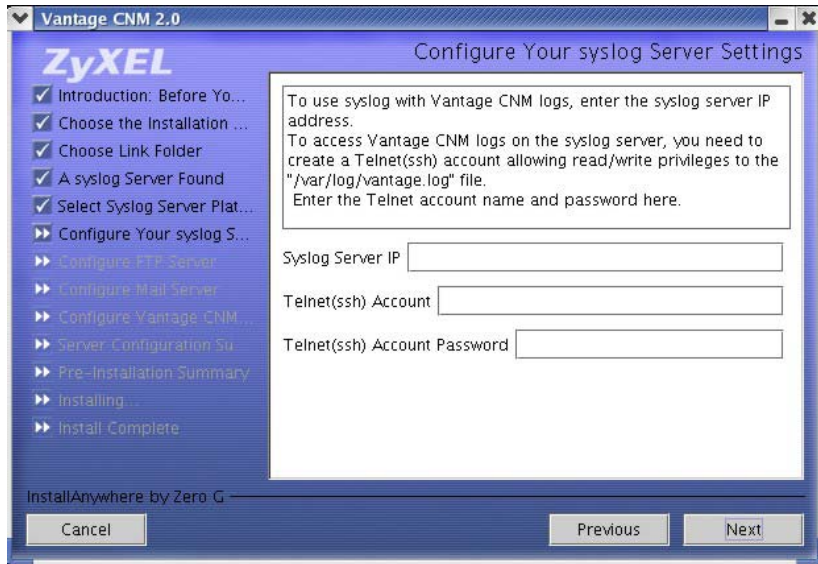


Figure 10 Configure the syslog Server Found

If you choose **No** in *Figure 9*, you will then see the next screen asking you to select the platform (**Linux** or **Windows**) on which the syslog server is running. Then click **Next** to continue to the screen shown in *Figure 10*.

10. The syslog server must be either a syslog server running on Linux or a Kiwi syslog server for Windows² (see the Kiwi website for details).

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

Find row:

```
/etc/syslog.conf
```

Add this row after it:

² At the time of writing, only these syslog servers are supported and they are not bundled with Vantage CNM 2.0.

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```
local2.* /var/log/vantage.log
```

Modify the following row:

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

To

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

Syslogd must support the "-r" option so you need to edit /etc/sysconfig/syslog as follows find the row,

```
SYSLOGD_OPTIONS=""
```

Modify it as follows:

```
SYSLOGD_OPTIONS="-r"
```

Then run "/etc/init.d/syslog stop" and "/etc/init.d/syslog start" to restart syslog.

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

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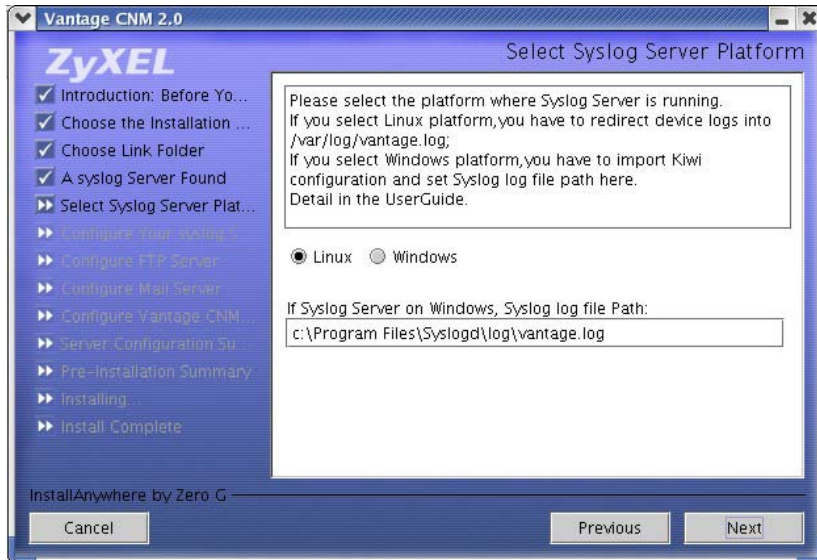


Figure 11 Not Using the syslog Server Found

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

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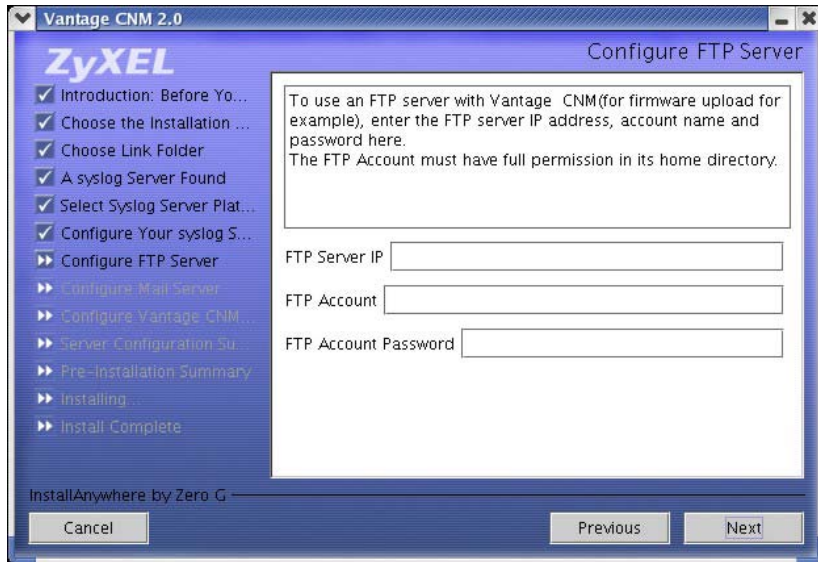


Figure 12 Configure FTP Server

12. The next screen asks you to configure a mail server. The mail server is used to send notifications. Follow the instructions in the screen.



Figure 13 Configure Mail Server

13. 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.

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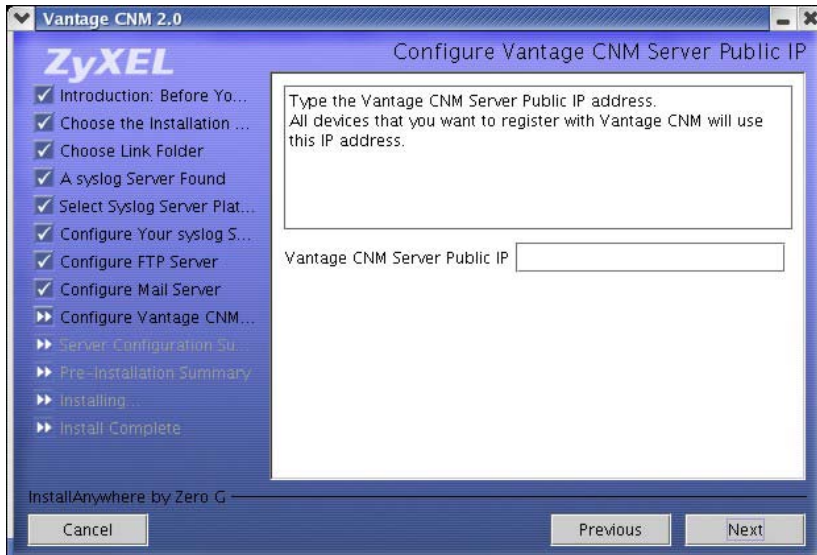


Figure 14 Configure Vantage Server Public IP Address

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

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Figure 15 Server Configuration Summary

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

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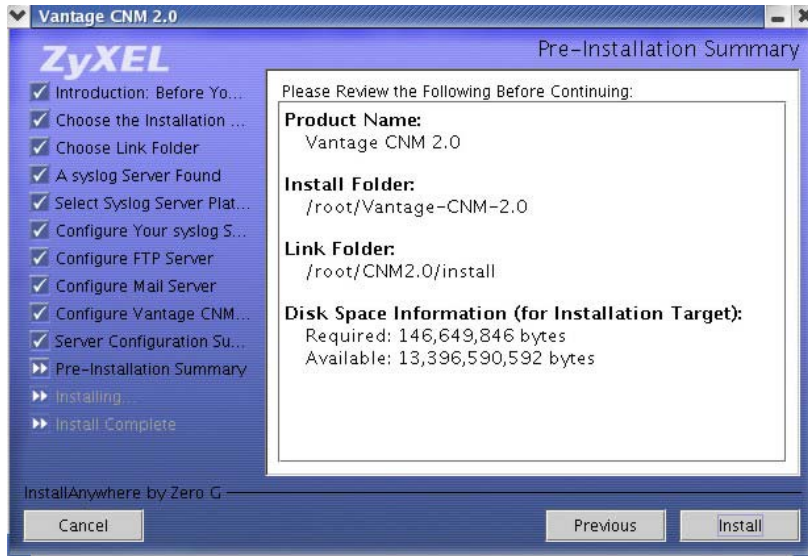


Figure 16 Pre-Installation Summary

16. Wait while Vantage installs.

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Figure 17 Vantage Installing

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

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Figure 18 Install Complete

4 Starting and Stopping Vantage

1. Navigate to the folder you saved Vantage (for example, /usr/Vantage-2.0)
2. Go to ZYCNM_DEPLOY_BED/bin
3. Type this command.

```
./start.sh
```

Or

```
./start-graphic.sh
```

Or

- i. Go the link folder you created in the screen shown in *Figure 8*.

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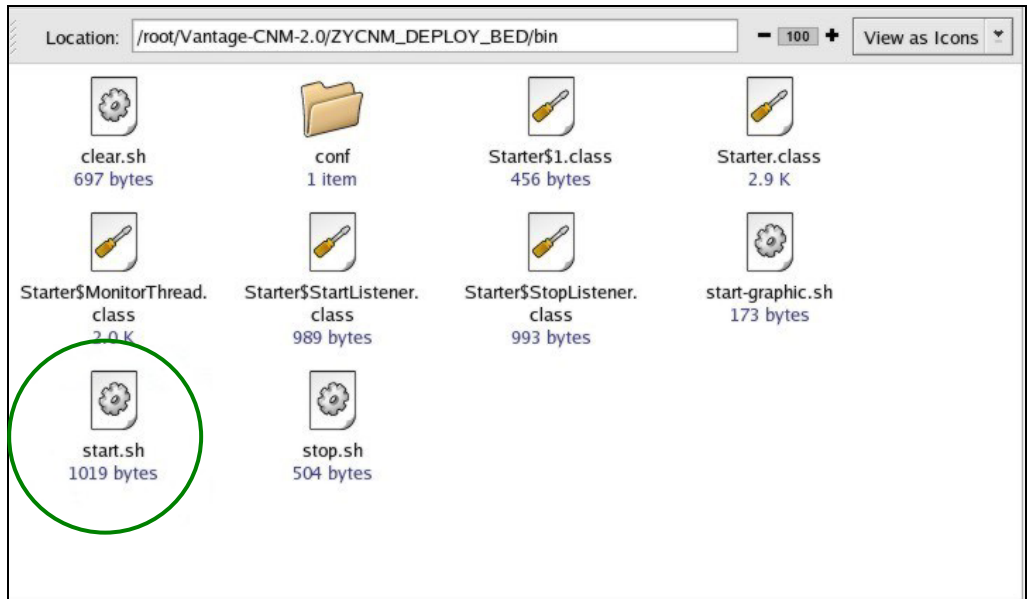


Figure 19 Starting & Stopping Vantage

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

4.1 Vantage Status Screen

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



Figure 20 Vantage Status

5 Accessing Vantage

5.1 IP Address

1. From the Vantage client computer, open Internet Explorer 6 and type **http://{Vantage server IP address}/vantage** or simply **http://{Vantage server IP address}**. If the Vantage server and client is the same computer, you can enter “localhost” instead of the 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.
3. You may see another screen advising that this is a HTTPS connection. Click **Yes** to continue.



Figure 21 Security Alert

5.2 Login

4. Enter “root” for both username and password and then click **OK**. You should change your password after first login.



Figure 22 Login

5.3 Install Java Plug In

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



Figure 23 Java Plug-in

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

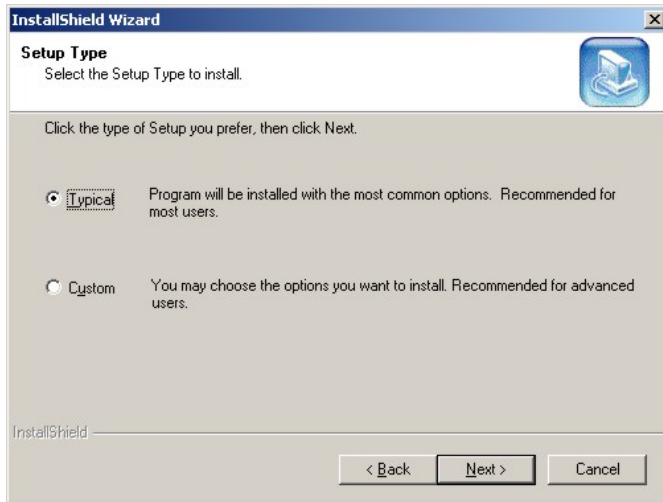


Figure 24 Typical Plug-in Installation

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

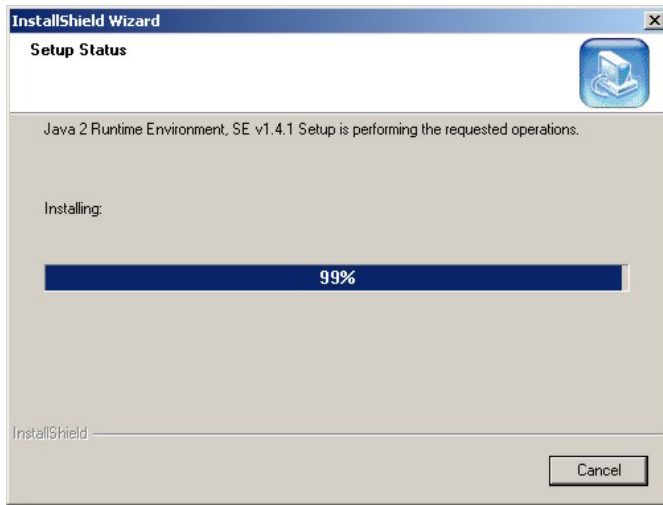


Figure 25 Plug-in Installing

5.4 HTTPS Certificates

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



Figure 26 Security Warning 1

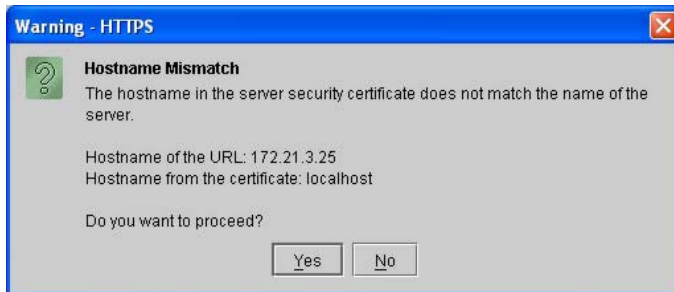
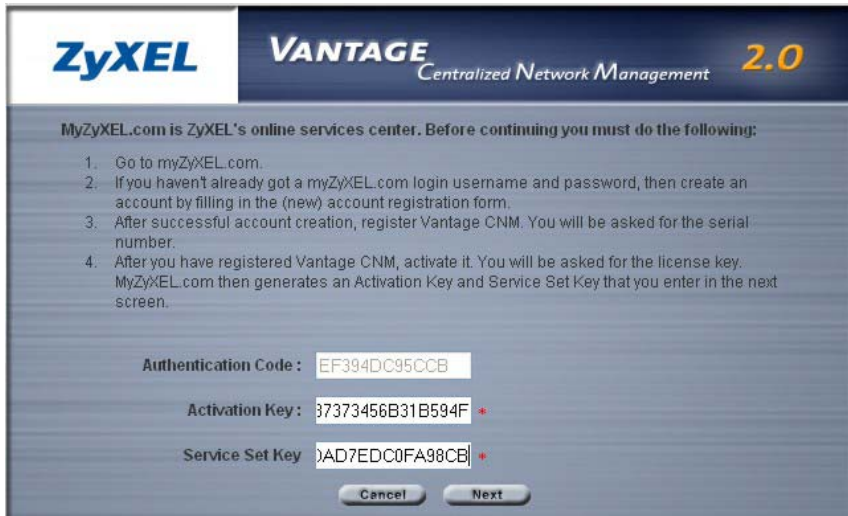


Figure 27 Security Warning 2

5.5 Activate Vantage

9. The next screen eventually appears asking you to enter the **Activation Key** and **Service Set Key** generated at www.myZyXEL.com. See the *myZyXEL.com* section in this *Quick Start Guide* if you have not yet registered and activated Vantage there. Afterwards, enter these fields and then click **Next** to continue to the main screen.

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ZyXEL **VANTAGE** *Centralized Network Management* **2.0**

MyZyXEL.com is ZyXEL's online services center. Before continuing you must do the following:

1. Go to myZyXEL.com.
2. If you haven't already got a myZyXEL.com login username and password, then create an account by filling in the (new) account registration form.
3. After successful account creation, register Vantage CNM. You will be asked for the serial number.
4. After you have registered Vantage CNM, activate it. You will be asked for the license key. MyZyXEL.com then generates an Activation Key and Service Set Key that you enter in the next screen.

Authentication Code:

Activation Key: *

Service Set Key: *

Figure 28 Activate Vantage

10. See the *User's Guide* for more details on the Vantage main screen.

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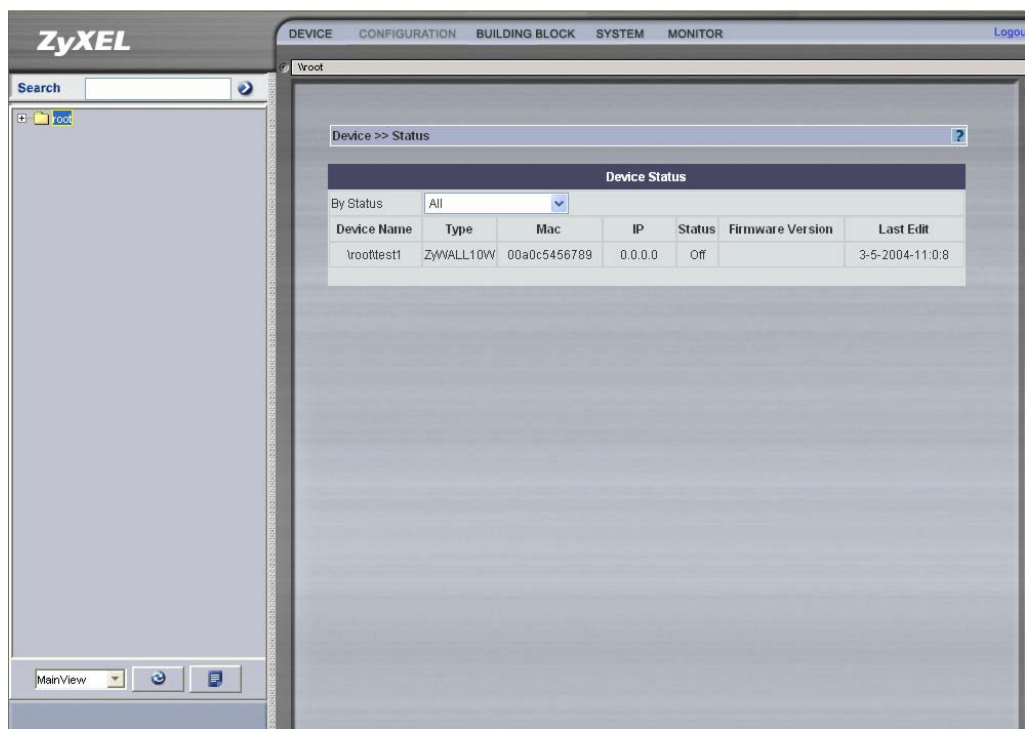


Figure 29 Main Screen

6 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 *Figure 28*.

6.1A Note on Numbers

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

Table 6-1 Numbers

Serial Number	You need the serial number to install the Vantage CNM software.
Authentication Code	This is a unique number that is generated after you install Vantage. You need this number to register Vantage 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.

6.2 Login

1. Go to <http://www.myZyXEL.com> using your web browser.
2. Create a new account (if you haven't already one) with a user name and password by filling in an account registration form at myZyXEL.com.



The screenshot shows the login page for myZyXEL.com. At the top, it says "Login /" and "Welcome to myZyXEL.com". Below that, it asks "What's myZyXEL.com?" and provides a brief description of the service. There are input fields for "Username:" and "Password:", a "Remember Username:" checkbox, and "Submit" and "Cancel" buttons. At the bottom, there are two links: "> Forgot Password? Click here" and "> If you are not a registered user, Click here". A callout box with a pointer to the second link contains the text: "Click here to create a new myZyXEL.com account."

Figure 30 myZyXEL.com Login Page

3. You will receive an e-mail from myZyXEL.com containing a hyperlink. You must paste this hyperlink into your web browser within three days in order to activate your account.

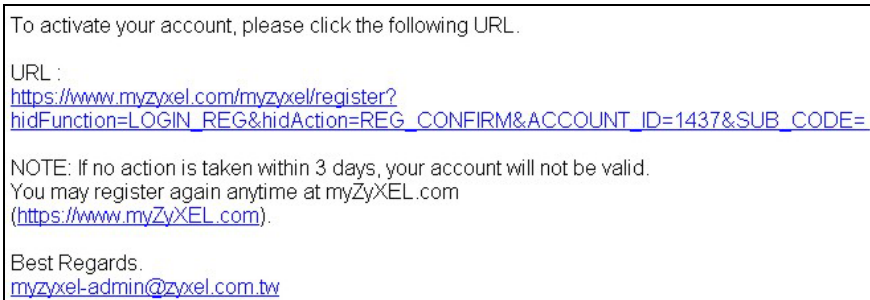


Figure 31 E-Mail Subscription Notice

6.3 Register Vantage

4. After you have created a myZyXEL.com account, log in and register Vantage by clicking the hyperlink as shown in the next screen.



Figure 32 Logged Into myZyXEL.com

5. Click **Add** in the next screen.

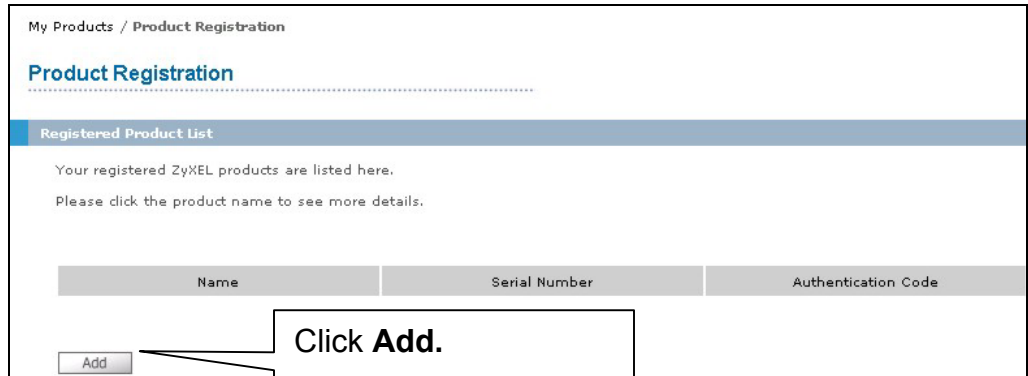


Figure 33 Product Registration

6. Enter the following information in the next screen and then click **Register**.
- o Product serial number: This is a 12-digit number found on the Vantage CNM 2.0 product label. It identifies the model type within myZyXEL.com. Type the number exactly as shown on the label.
 - o Authentication Code: This is a generated number that is displayed after you install Vantage as shown in the screen in *Figure 28*. Type the information exactly as displayed or copy and paste it into the screen as shown in *Figure 34*; be careful to avoid pasting trailing spaces.
 - o Friendly Name: This is an alias you give the product to identify it.

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My Products / Product Registration

Add New Product

To add a new product, please fill in the following fields.
Friendly Name is an alias you give the product to identify it in the product list.

Serial Number: Please enter the 10-digit number of the label on the unit.

Authentication Code:
 > For hardware products, this is the authentication code on the label.
 > For software products, this is the authentication code for the software.

Friendly Name: Please give a name easy to remember for you. Up to 30 characters.

Fill in these fields.
Then click **Register**.

Figure 34 Add New Product

7. After you have registered Vantage, you can view it in the screen shown next.

My Products / Product Registration

Product Registration

Registered Product List

Your Registered Products are listed below:
To view associated Service Details, click on the Product Name.

Name	Serial Number	Authentication Code
myVantage CNM 2-0	S120300031	EF394DC95CCB

This is the product you just registered. Click the name hyperlink.

Figure 35 Product Registered

6.4 Generate Keys to Activate Vantage

8. 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.

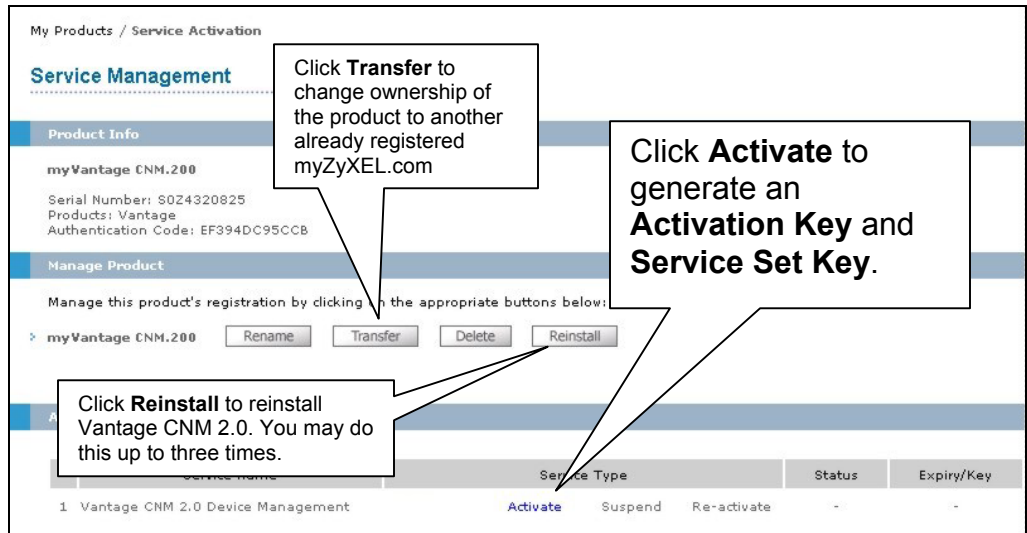
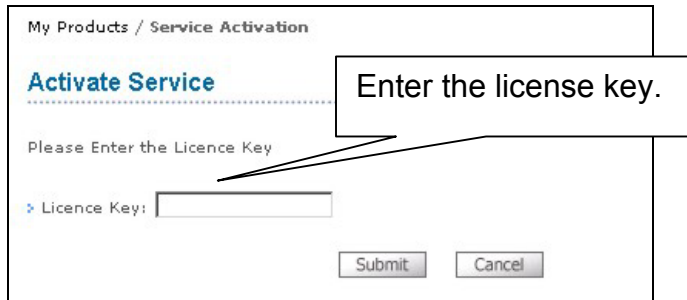


Figure 36 Product Service Management

9. 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 software, upgrade software or trial software.



My Products / Service Activation

Activate Service

Please Enter the Licence Key

> Licence Key:

Submit Cancel

Enter the license key.

Figure 37 Generate Keys to Activate Vantage

10. Enter the license key exactly as displayed on the label and click **Submit**. A screen then displays showing you the **Activation Key** and **Service Set Key** that you enter in *Figure 28*. The keys are also sent to your myZyXEL.com registered e-mail address.

6.5 Reinstall Vantage

If you reinstall Vantage, a new **Authentication Code** is generated. A new authentication code will not work with the previously myZyXEL.com-assigned **Activation Key** and **Service Set Key**, thereby disallowing the activation of the reinstalled Vantage.

However, using myZyXEL.com, you are allowed to reinstall Vantage CNM 2.0, up to three times (at the time of writing). If you need to reinstall Vantage more than three times, then you will have to send an e-mail to **myZyXEL-admin@zyxel.com.tw**.

To reinstall Vantage, click **Reinstall** in the screen shown in *Figure 36*. Enter the new authentication code in the following screen (*Figure 38*) and click **Next**. The new **Activation** and **Service Set** keys are then displayed in a subsequent screen and are also sent to your myZyXEL.com-registered e-mail address.

Vantage CNM 2.0

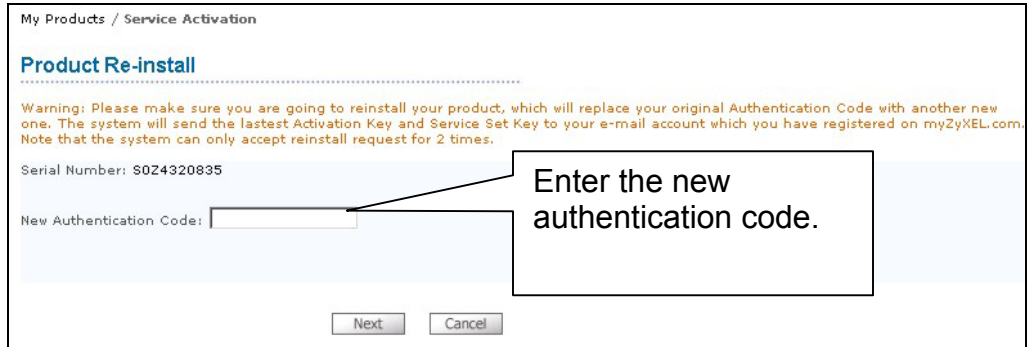


Figure 38 Reinstall Product

7 Uninstalling Vantage

Follow this procedure to uninstall Vantage.

1. You should first stop Vantage by clicking **Stop** in the screen shown in *Figure 20*.
2. Double-click the icon as shown in the next screen or type `./Uninstall_Vantage_CNM_2.0` in terminal mode.

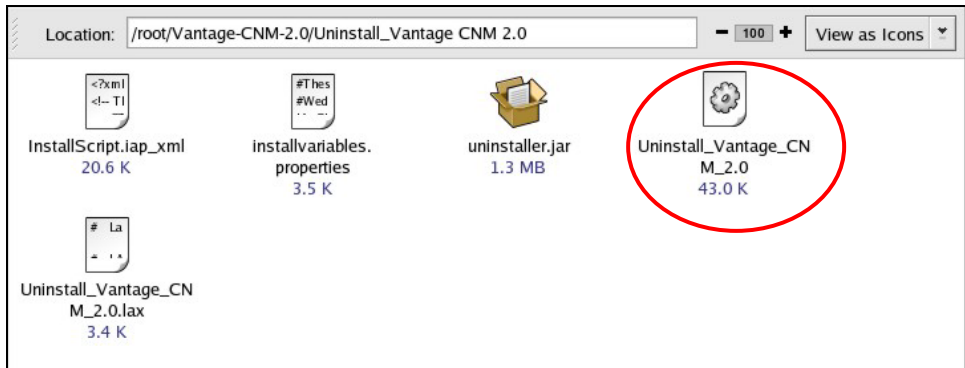


Figure 39 Uninstall Folder

Vantage CNM 2.0

3. The following screen then displays. Click **Uninstall** to begin uninstalling.

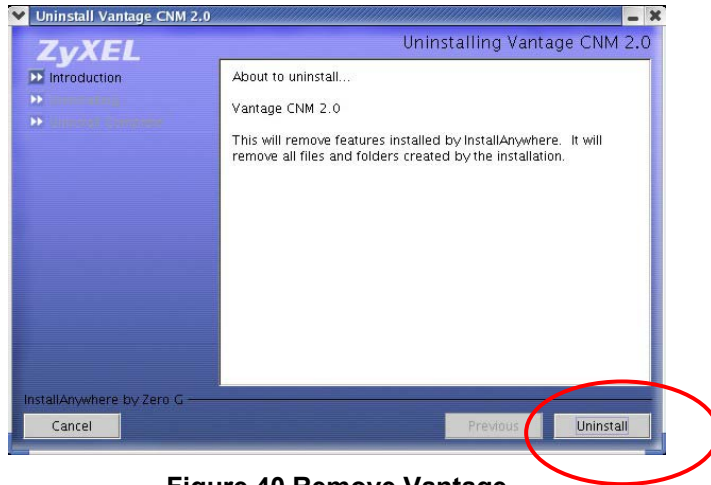


Figure 40 Remove Vantage

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

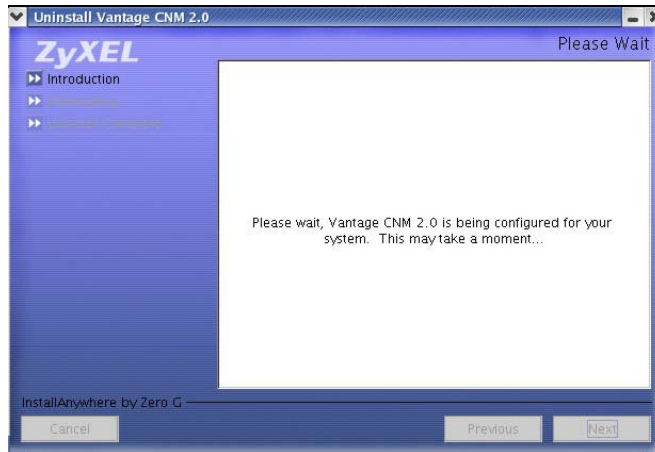


Figure 41 Uninstall Wait

Vantage CNM 2.0

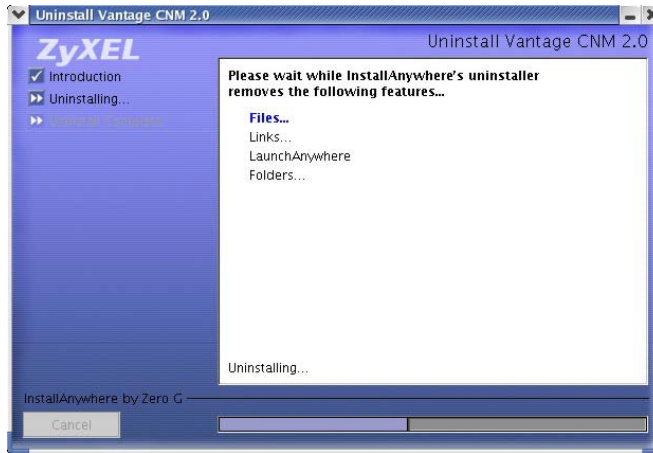


Figure 42 Uninstall Components

5. The next screen displays when Vantage has been removed from your computer.

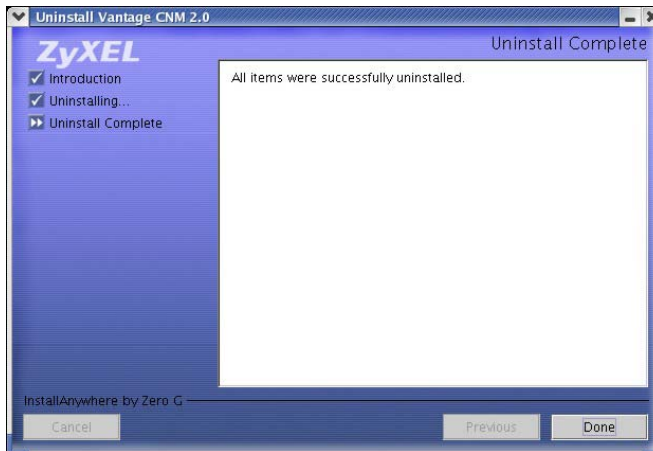


Figure 43 Uninstall Complete