Installation Guide

for

OmniVista 2500 NMS
Version 4.1.2.R02

May 2015

Revision A

Part Number 033009-00

READ THIS DOCUMENT

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OmniVista 2500 NMS Installation Guide

This document details the OmniVista 2500 NMS installation/upgrade process. For information on getting started with OmniVista 2500 NMS after installation (e.g., using the Web GUI, Discovering Network Devices) see the *Getting Started Guide* in the OmniVista 2500 NMS on-line help (accessed from Help link at the top of the main OmniVista Screen).

Key applications in OmniVista 2500 NMS are web-based, others are java based (e.g., Discovery, Topology); however all are accessed through the OmniVista Web GUI. The Web GUI is supported on the following browsers: Internet Explorer 10+, Firefox 26+, and Chrome 26+. To access the java-based applications, you must have Java 1.7 or 1.8 installed on the Client machine.

Specific platform support and recommended system configuration information are available in the *OmniVista 2500 NMS Release Notes*.

> **Important Note:** This document details installing OmniVista 2500 NMS as well as upgrading from a previous version of OmniVista. **If you are upgrading from a previous version of OmniVista, there are upgrade tasks that must be performed before installing the new version of OmniVista.** If you are upgrading, go to the upgrade section.

Installing OmniVista 2500 NMS

This section details the procedures for installing OmniVista 2500 NMS. Installation consists of the following steps:

- Installing the OmniVista 2500 NMS Software
- Configuring Java Settings
- Launching OmniVista 2500 NMS
- Installing the OmniVista Security Certificates

> **Note:** OmniVista 2500 NMS uses an installer with a Graphical User Interface, and requires Graphics Libraries on RedHat and SUSE Linux to install the packages.

Installing the OmniVista 2500 NMS Software

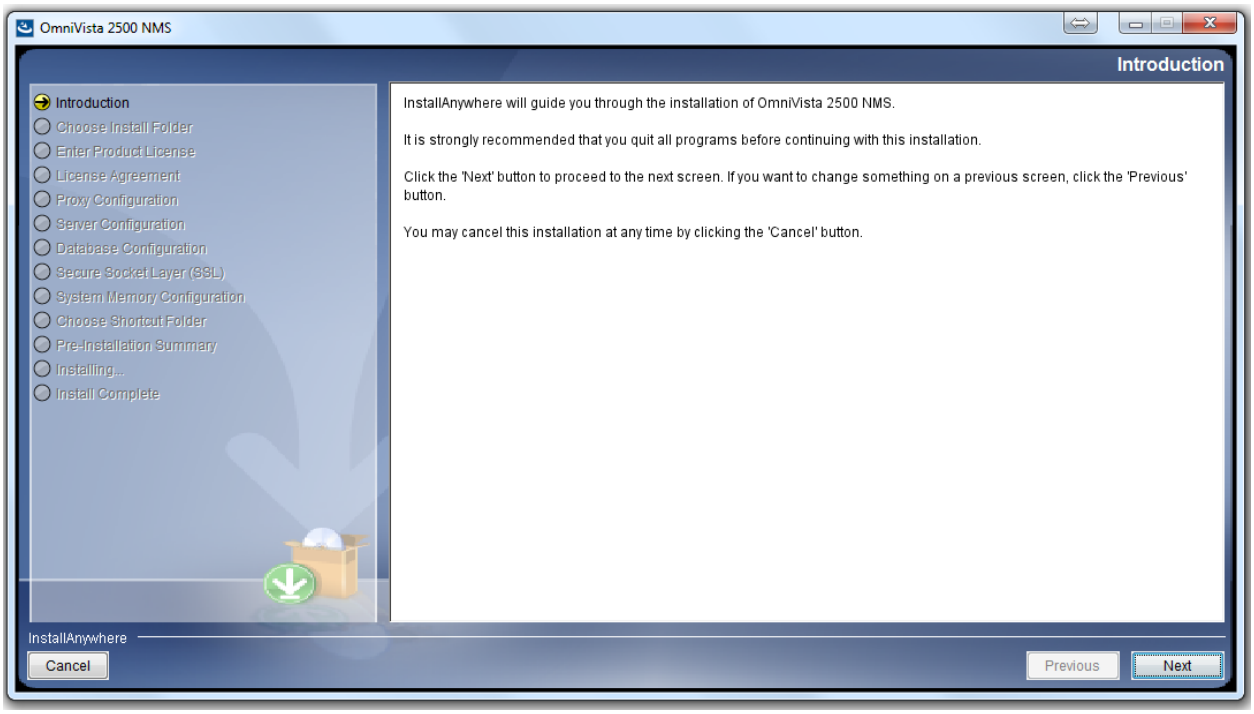
1. Download the OmniVista 2500 NMS Application file.

2. Make sure IP address “1.1.1.1” is unreachable from the server on which you are installing OmniVista 2500 NMS.

3. Double-click on the file to start the Installation Wizard (for Windows, select and run .exe file; for Linux, change the permissions of the file and execute the .bin file).

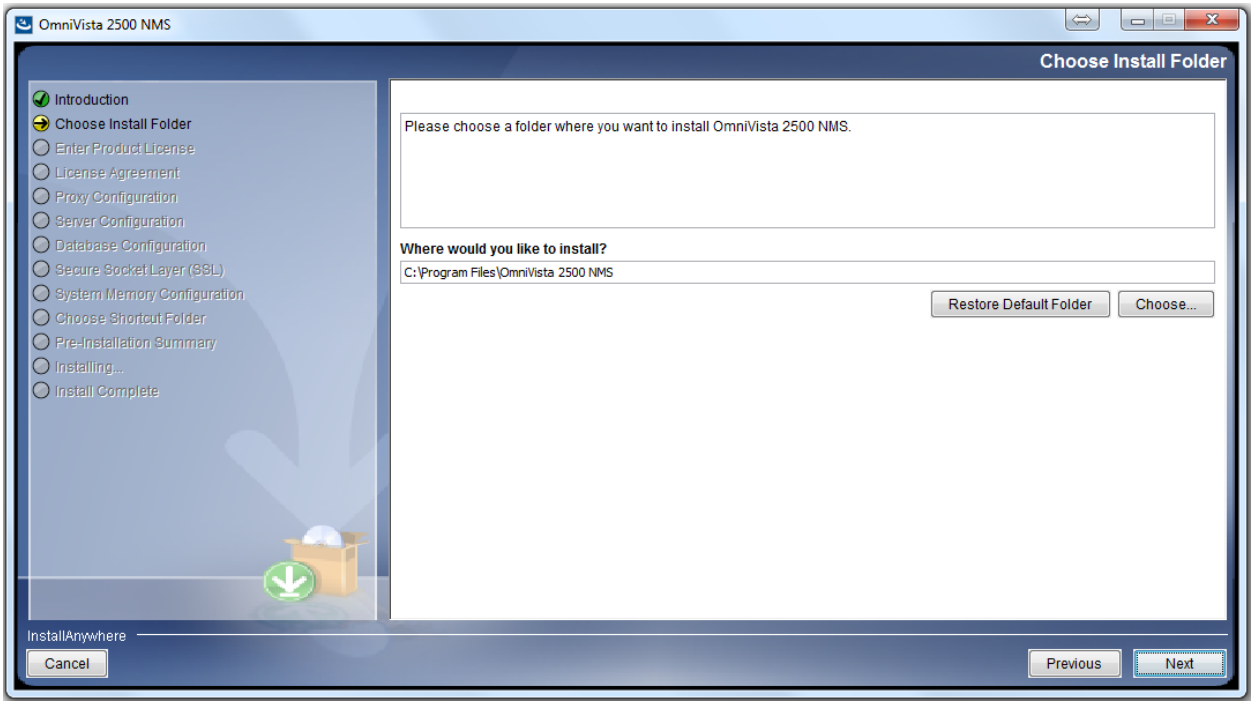
> **Note:** The installation process is GUI based so be sure the GUI can be launched from where the installation is attempted. (This might require starting up X-server on the Linux server and/or exporting the display appropriately.)

4. The InstallAnywhere Introduction displays. Click **Next** to continue.

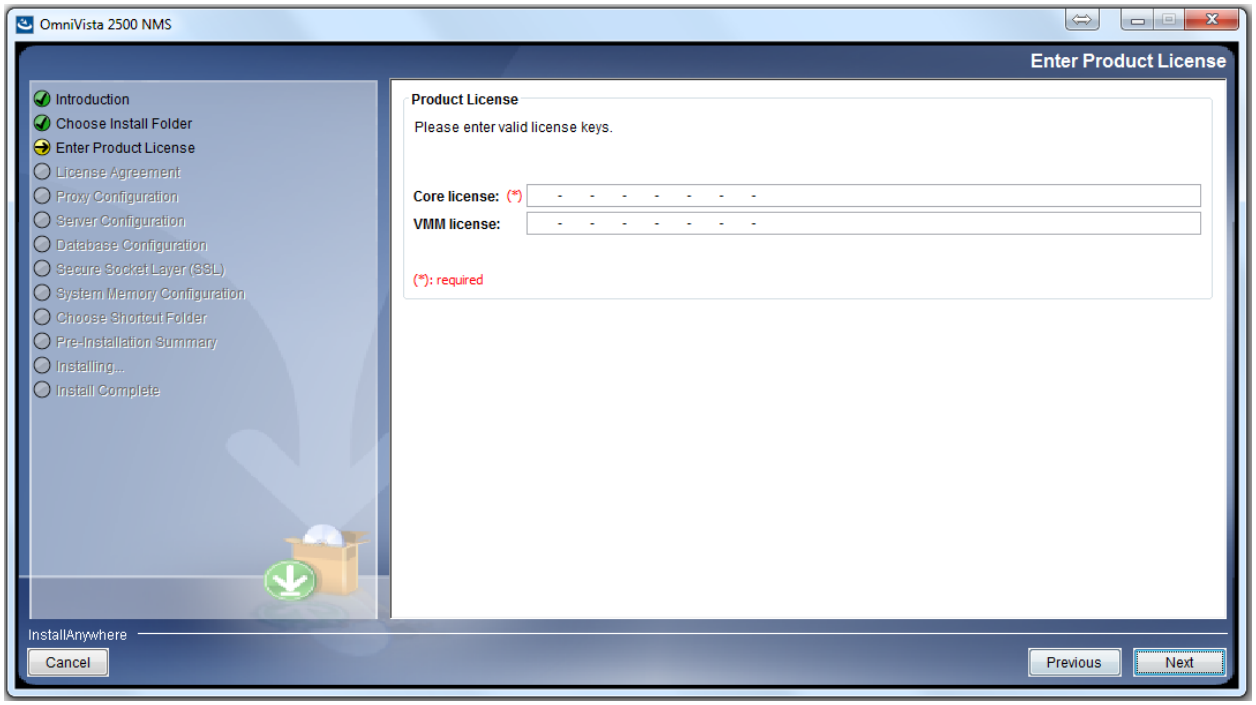


5. Choose Install Folder. Choose an Install Folder location. The default location automatically displays in the selection box (Windows - C:\Program Files\OmniVista 2500 NMS, Linux - /opt/OmniVista_2500_NMS). To change the location, select **Choose**. Click **Next** to continue.

> **Important Note:** If you are upgrading from OmniVista 4.1.1 or later, the Install Folder should be the same as the existing installation.



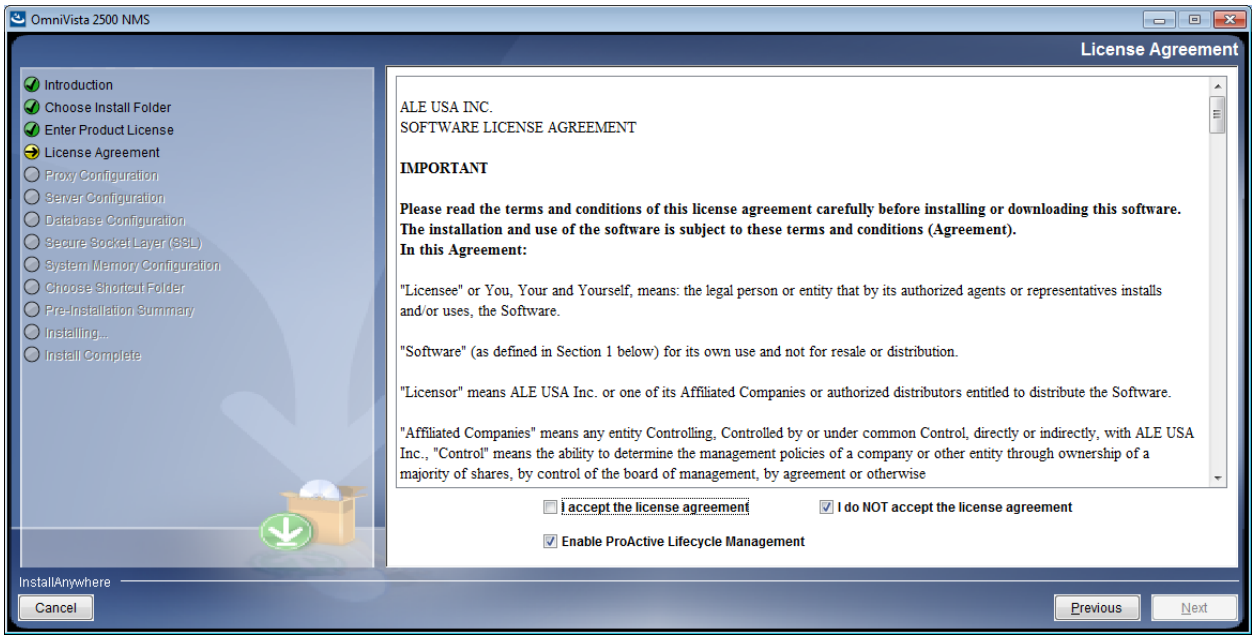
6. Enter Product License. OmniVista prompts for a Core license key. Enter the Core License Key received when you purchased the software. (The Core License is a required step.) Click **Next** to continue.



Note: The OmniVista 2500 NMS "Starter Pack" License is available for free. However, it will only enable you to manage 20 devices (10 AOS/10 Third-Party). If you are using a "Starter Pack" License, you can purchase an Evaluation or Production License at a later time and enable it using the License Application in OmniVista 2500 NMS.

7. License Agreement. OmniVista displays the Software License Agreement in this panel. Read the agreement carefully and select "I accept the license agreement." Click **Next** to continue.

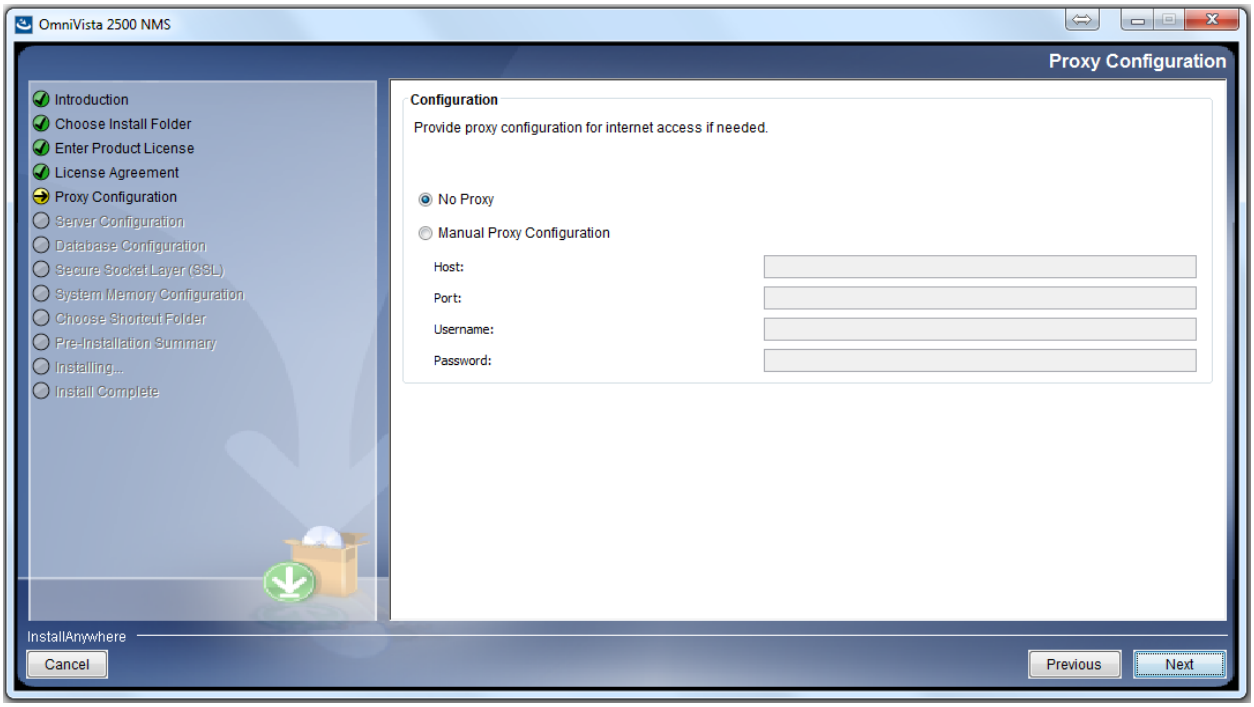
Note: You must accept the ALE License to continue to the next step.



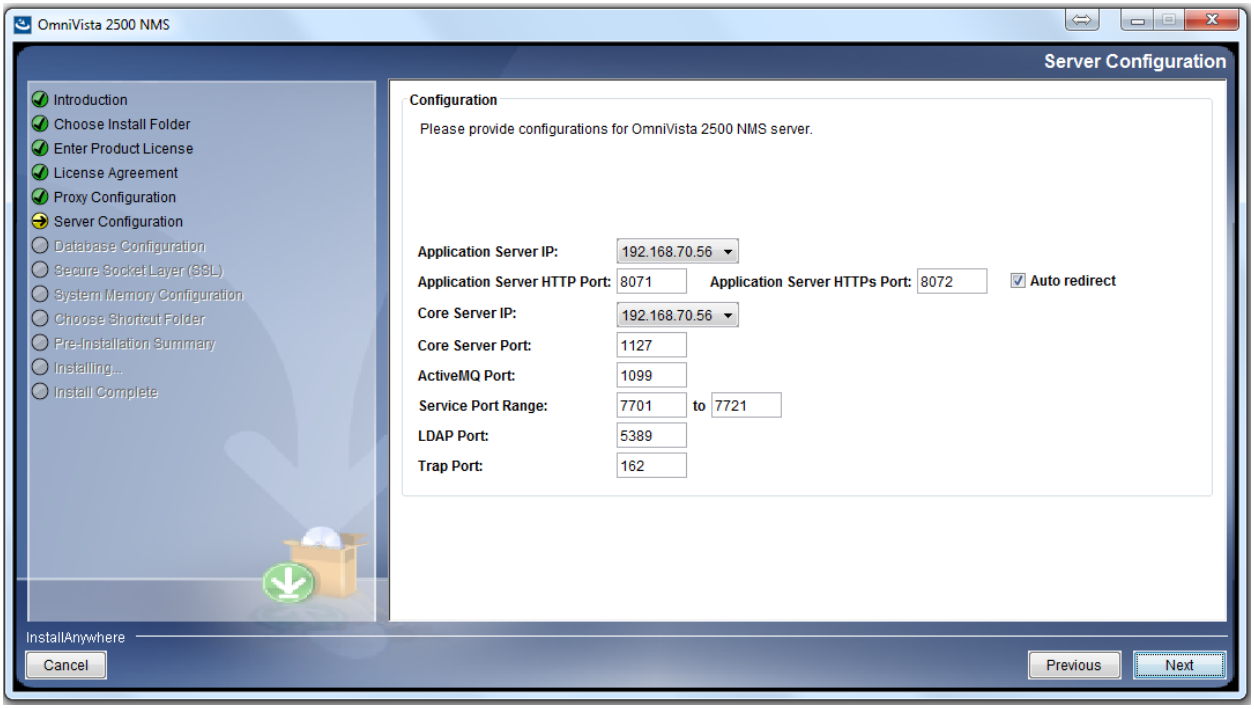
Note: The ProActive Lifecycle Management Feature periodically gathers detailed information for all discovered devices on your network and periodically uploads the information to the ProActive Lifecycle Management Web Portal. The information is also available to you through a widget that can be displayed on the OmniVista 2500 NMS Dashboard for easy reference.

If you choose not to enable the ProActive Lifecycle Management Feature at installation, you can enable it at a later time in the Preferences Application. And if you enable it at install, you can disable it at a later time in the Preferences Application.

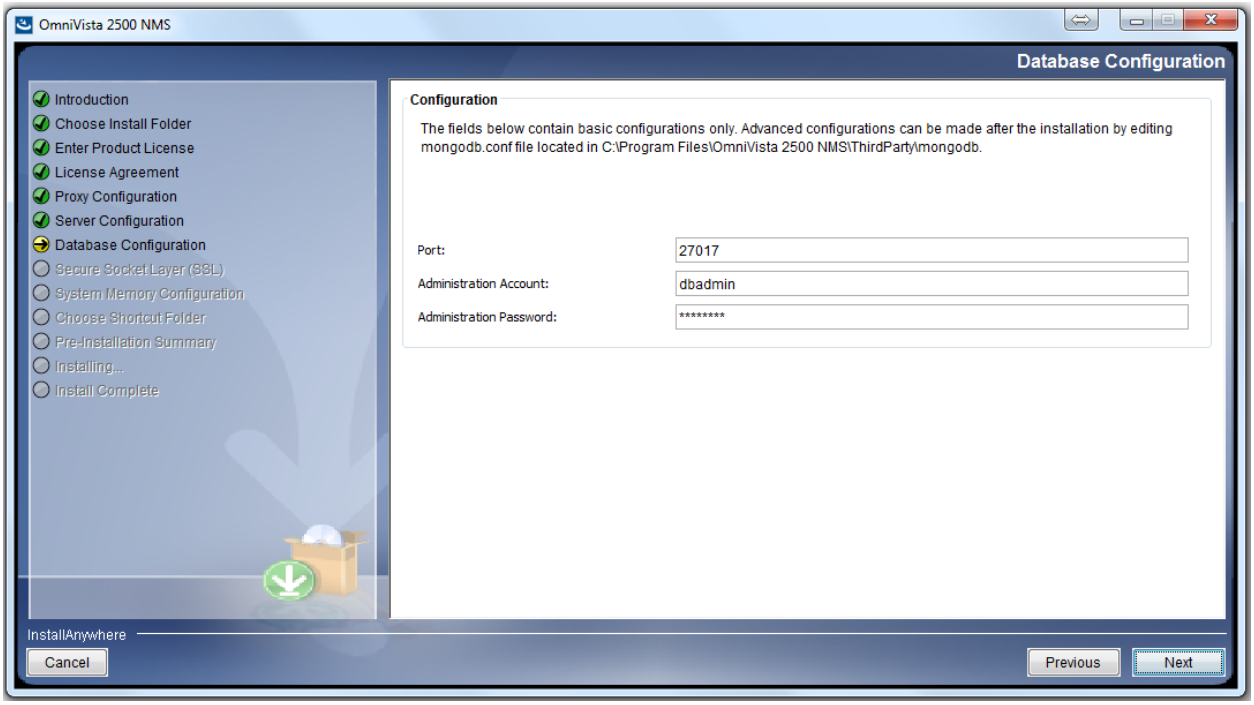
8. Proxy configuration. If using a proxy server, use this configuration screen to edit proxy settings for OmniVista 2500 NMS network connectivity. Click **Next** to continue.



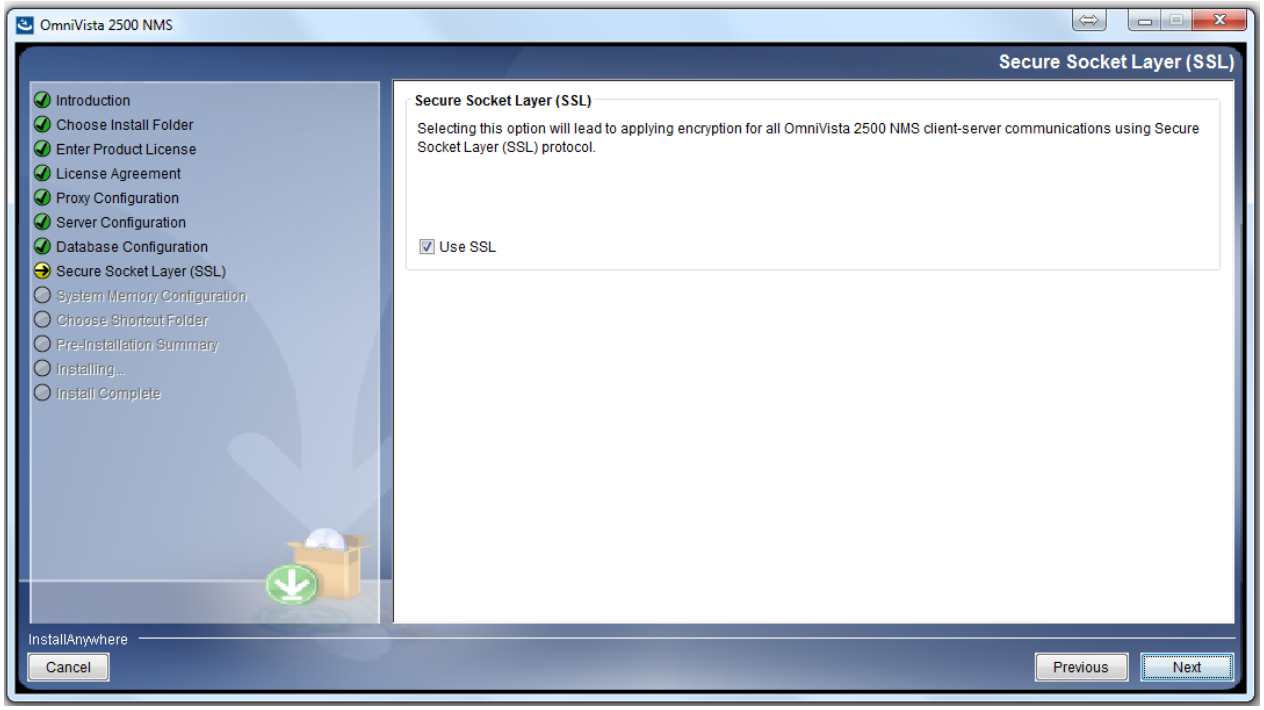
9. Server Configuration. This screen allows users to manually configure OmniVista 2500 NMS server information. Configure as required, or accept the default settings. Click **Next** to continue.



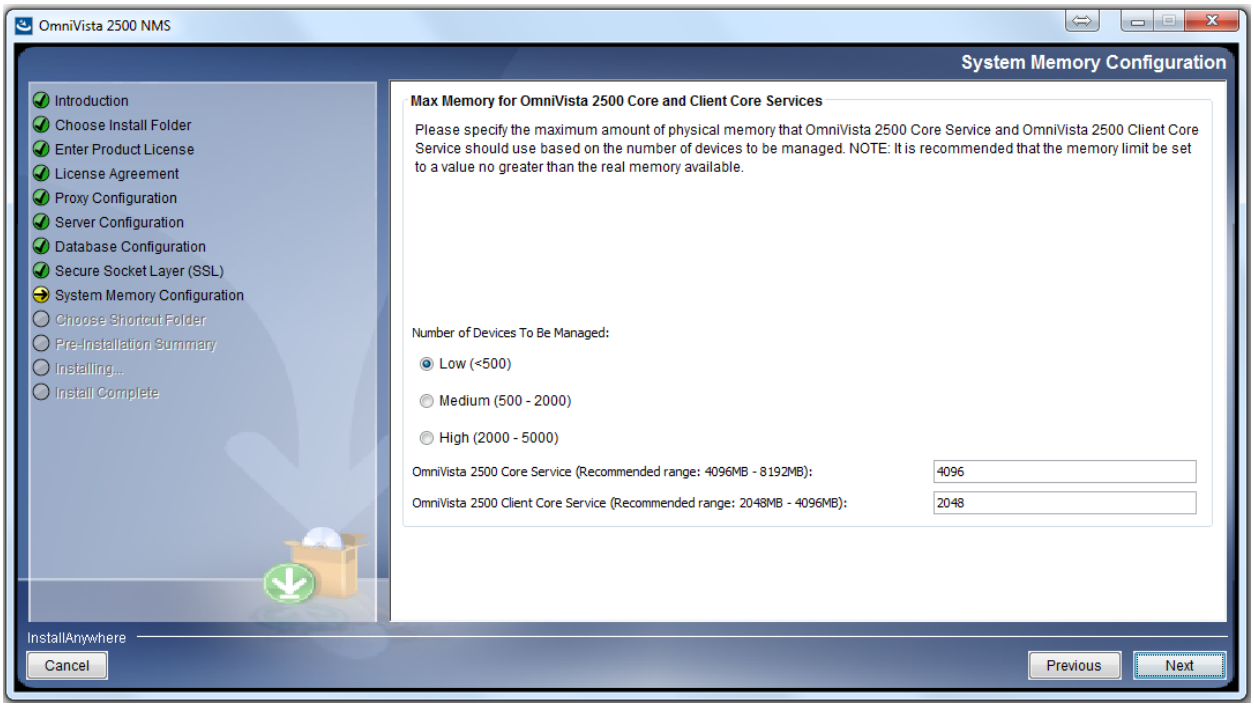
10. Database Configuration. Allows users to edit port, admin and password information for the Mongo database. Enter values for each field as needed. Click **Next** to continue.



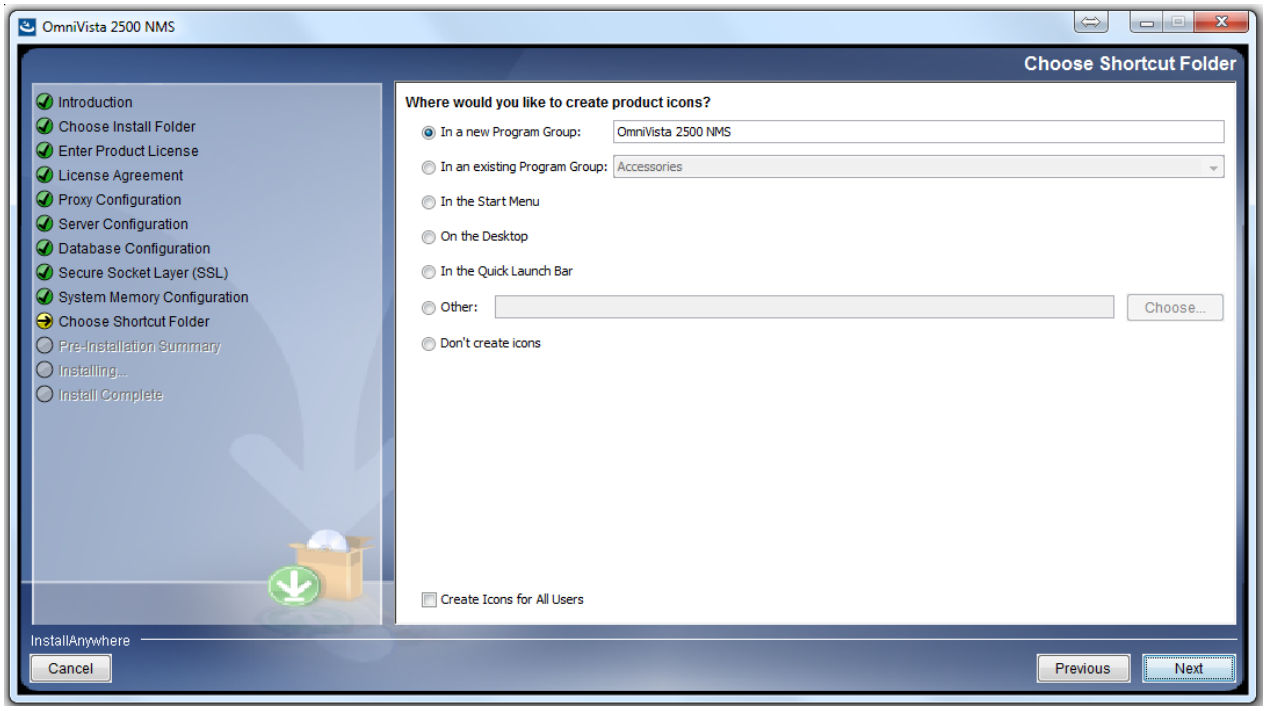
11. Secure Socket Layer (SSL). OmniVista supports SSL. By default, SSL is enabled. Accept the default value, or uncheck the “Use SSL” checkbox. Click **Next** to continue.



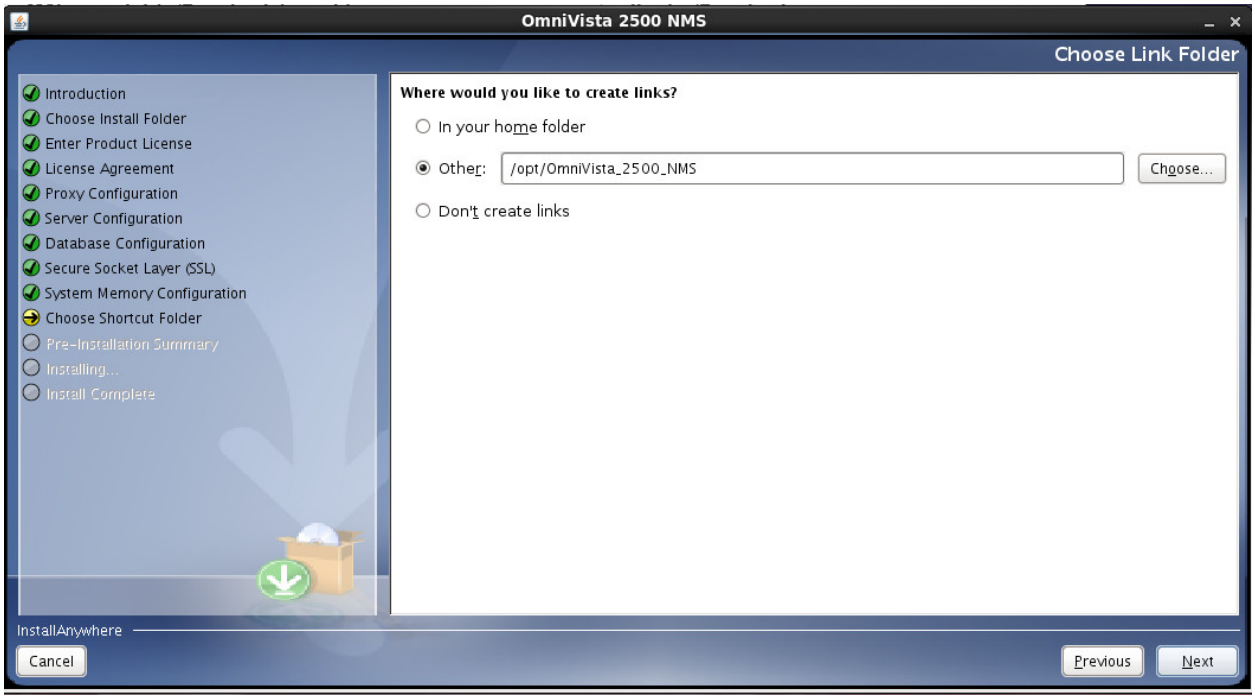
12. System Memory Configuration. This screen allows users to configure the maximum memory usage for OmniVista Core and Client Core Services. OmniVista displays minimum values in the recommended ranges. After configuring memory settings, click **Next** to continue.



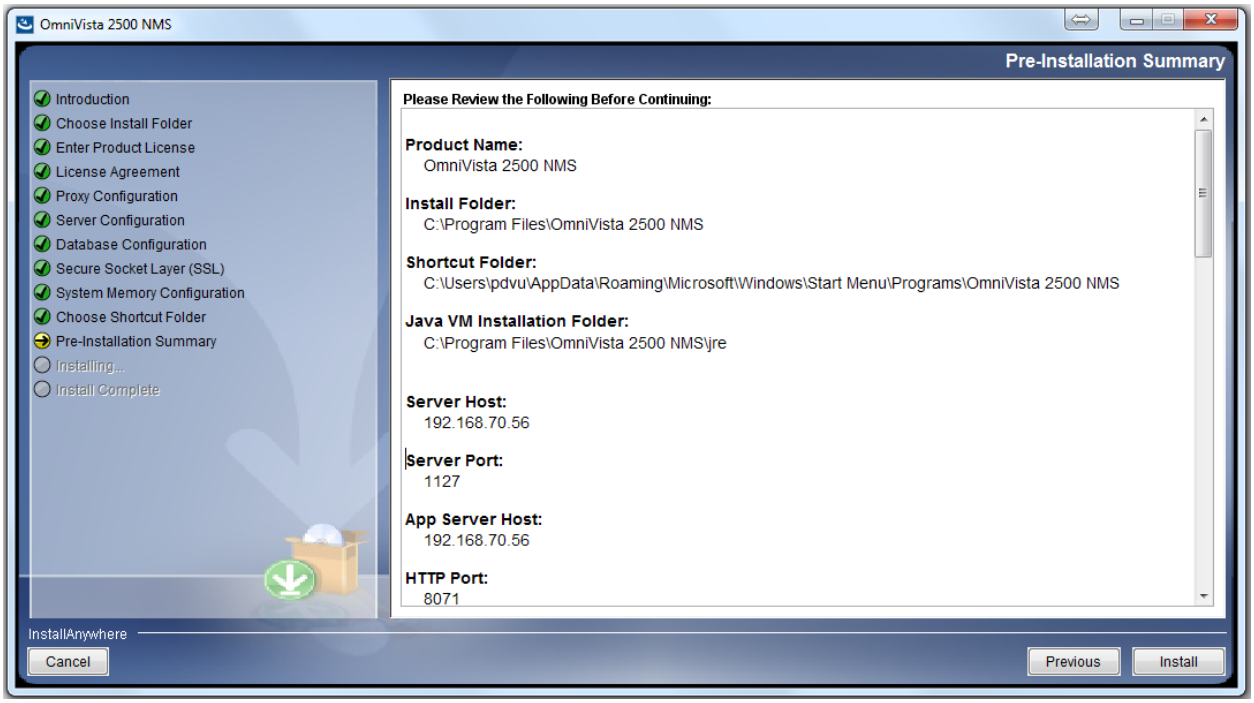
13. Choose Shortcut Folder. Select an option and click **Next** to continue.



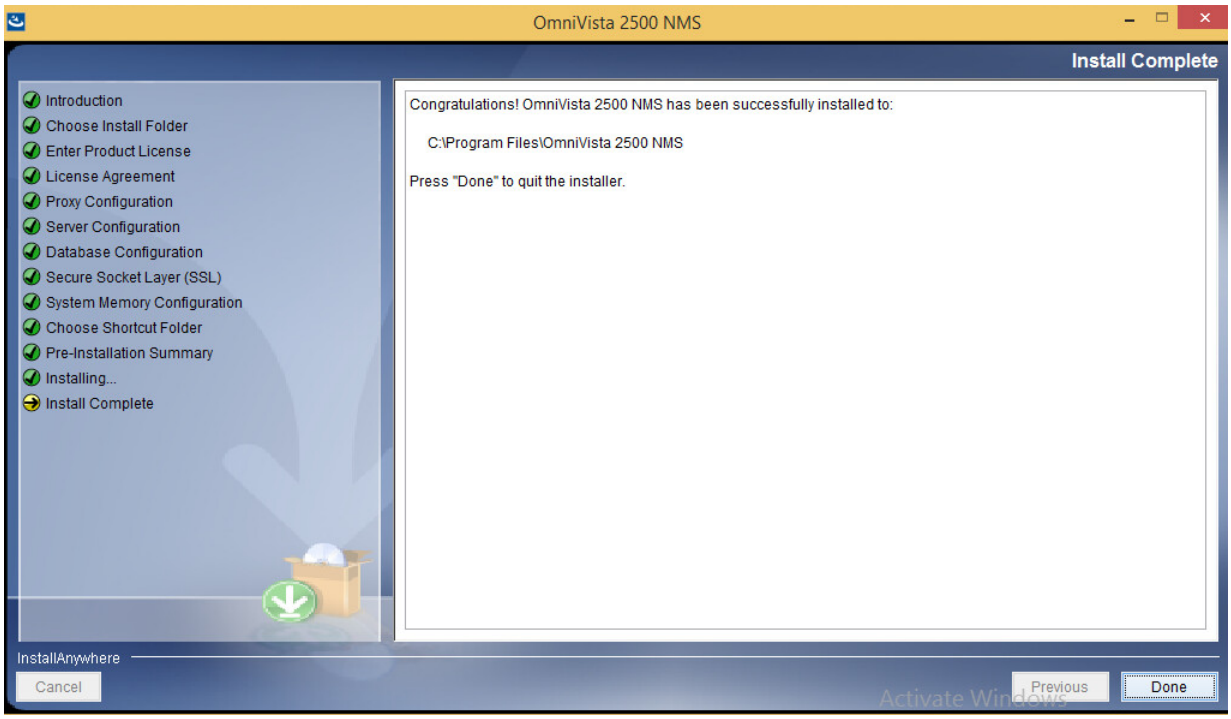
The “Choose Shortcut Folder” Screen **above** is displayed in a **Windows** installation. The screen **below** is displayed in a **Linux** installation.



14. Pre-Installation Summary. The Pre-Installation Summary screen displays the configuration that will install on the OmniVista Server. Review the configuration summary carefully before clicking **Install**. If settings require revisions, click the **Previous** button to go back and edit the settings as needed.



15. A progress bar displays as the installation begins. Note that it can take several minutes to finish the installation.



16. Configure the java settings as described below.

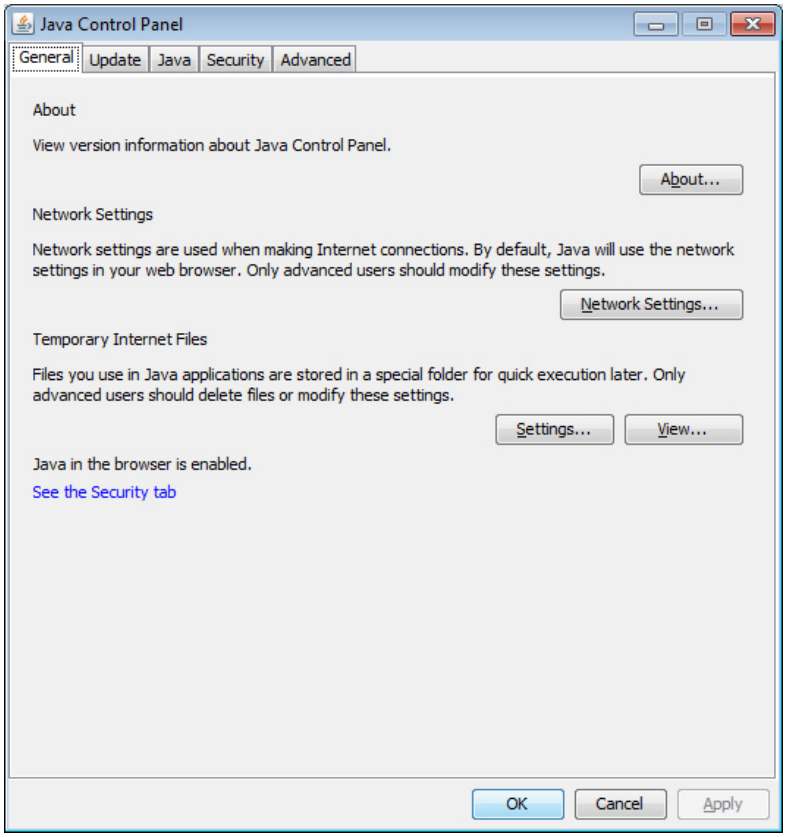
Configuring Java Settings on the Clients

Follow the steps below to configure java control settings on any client that you will use to launch OmniVista 2500 NMS. This is required to enable OmniVista to launch java-based applications (e.g., Discovery, Topology) on the client.

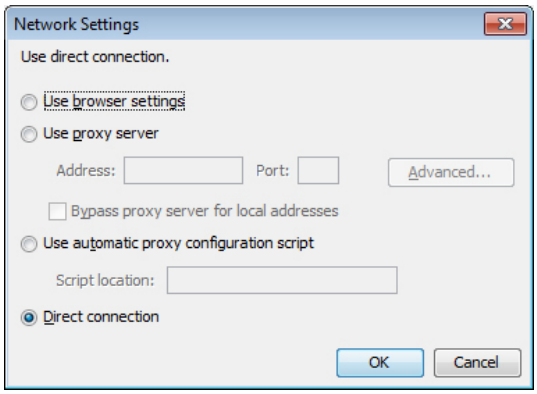
Note that Java v1.7 and v1.8 are both supported on OmniVista Clients. The screens in the instructions below are from a client with Java v1.8 installed. Most of the Java Windows are the same for v1.7 and v1.8. If they are different, the difference is explained in the relevant step.

1. Go to the Java Control Panel.

- **Windows:** Start > Control Panel > Java.
- **Linux:** System > Preferences > Java or JRE_HOME/bin/ControlPanel.



2. On the **General** Tab, click on the **Network Settings** button and configure the connection from the client system to the OmniVista Server.



- **Use Browser Settings:** Select to use the browser default browser settings.
- **Use Proxy Server:** Set the address and port for a Proxy Server with the option to bypass it for local addresses. **OR** Click on the **Advanced** button to bring up the Advanced Settings dialog. In this panel, you can individually set the Proxy Server for HTTP, Secure, FTP, and Socks connections. You can also provide a list of address for which you do not want to use the Proxy Server.

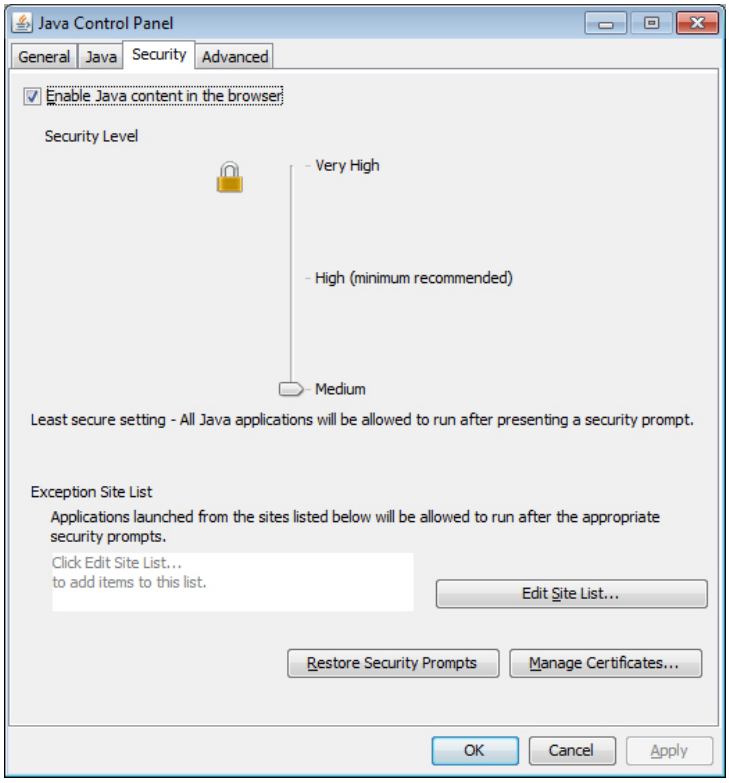
- **Use Automatic Proxy Configuration Script:** Specify the location of the Java Script File (.js or .pac) that contains the FindProxyForURL Function. This function has the logic to determine the Proxy Server to use for a connection request.
- **Direct Connection:** Select if you do not need to use a proxy server to connect from this client to the OmniVista Server.

3. On the **Security Tab** (shown below), set the Security Level as follows **if you are using the OmniVista Self-Signed Security Certificate**.

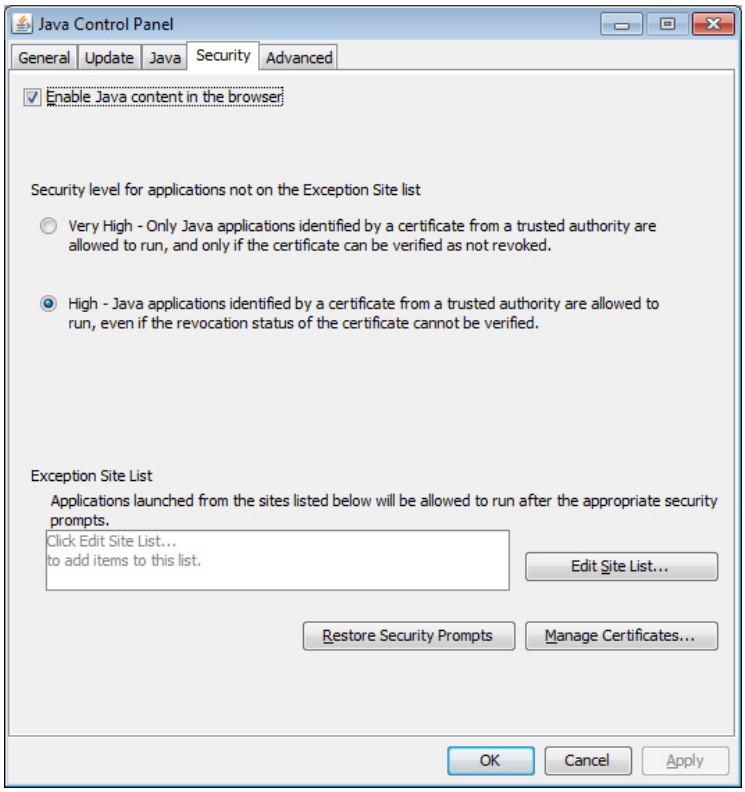
- **Java 1.7 Clients -** Set the Security Level Slider to **Medium**.
- **Java 1.8 Clients -** Select the **High** radio button.

  Note: If you are obtaining a certificate from a certificate authority, you can use higher Security Levels.

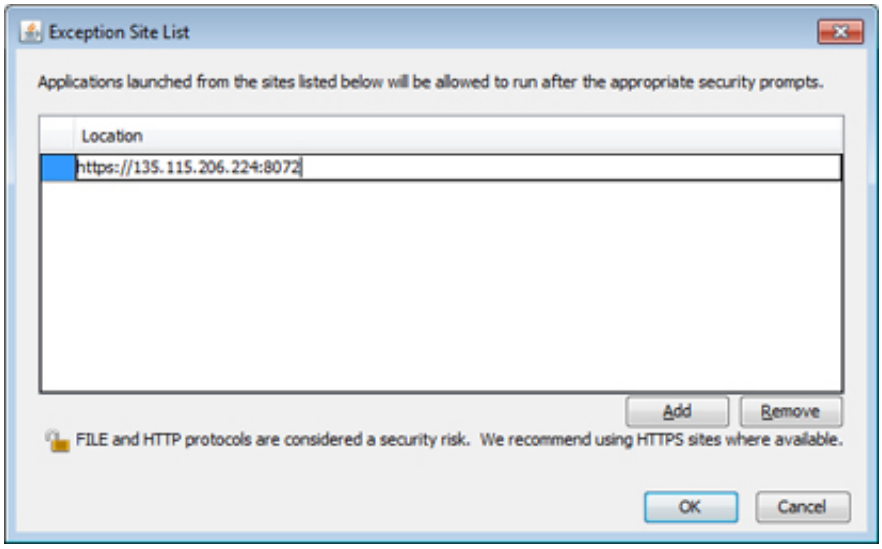
Security Tab - Java 1.7 Client



Security Tab - Java 1.8 Client



4. On the **Security Tab**, click on the **Edit Site List** button to bring up the Exception Site List window and add the OmniVista Server to the list. Click on the **Add** button and enter the full IP address (including port number) of the OmniVista Server (e.g., https://135.115.206.224:8072).



5. Click **OK.**

Launching OmniVista 2500 NMS

To launch OmniVista 2500 NMS on Windows or Linux platforms, enter the IP address of the OmniVista Server and applicable port number in a supported web browser, for example: https://IPAddress:8072/login.html. Log in using the default Username and Password:

- **Username:** admin
- **Password:** switch

Installing OmniVista 2500 NMS Security Certificates

Once you install the OmniVista 2500 NMS software and configure the java settings as described above, you will be able to access the OmniVista Web GUI. However, to launch Java-based applications (e.g., Discovery, Topology), you **must** install the necessary Security Certificates on Windows or Linux Clients as described below.

Installing Security Certificates (Windows)

Install the Web Security Certificate and the Java Security Certificate as described below.

Installing the Web Security Certificate (Windows)

By default, the OmniVista 2500 NMS Installer creates a self-signed certificate for HTTPS connections. You can override this Self-Signed SSL certificate with your own, by creating a Valid Self-Signed SSL Certificate.

However, Launching OmniVista in a browser using self-signed certificates results in many security warnings. You can reduce the number of HTTPS security warnings by obtaining a valid SSL Server Certificate from a certificate authority. (e.g., VeriSign, Thawte, Geotrust, Comodo SSL). Once you create a valid self-signed certificate, or obtain one from a certificate authority, you must import the certificate using OmniVista's keystore.bat script.

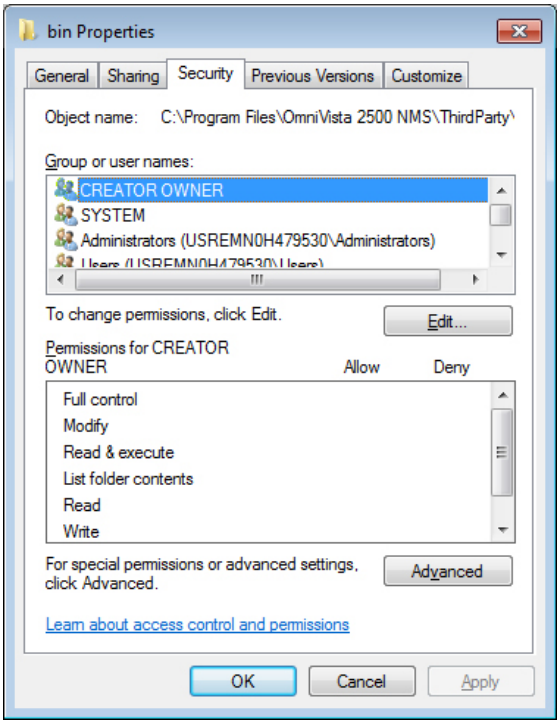
Note: If you already own a valid SSL certificate, skip to Importing the Certificate, below.

Creating a Valid Self-Signed SSL Certificate

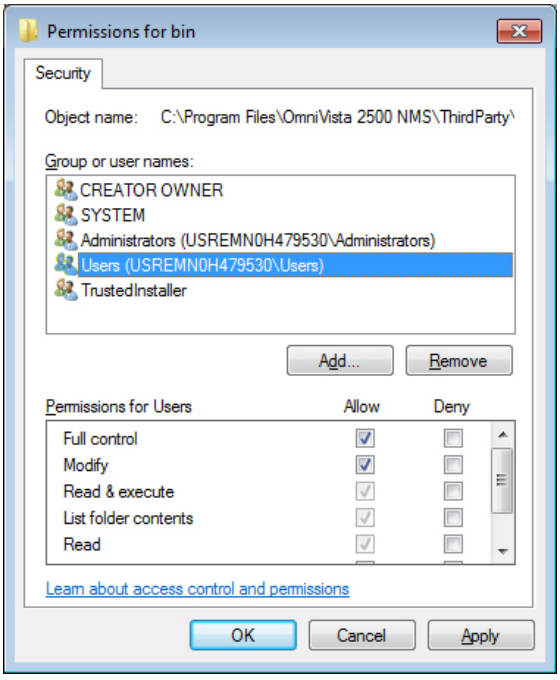
Self-signed certificates are useful for users who require encryption but do not need to verify the identity of a requesting website or web application (e.g., OmniVista). Follow the steps below to create a valid self-signed certificate.

1. Browse to the following directory on your system: \OmniVista 2500 NMS\ThirdParty\openssl\bin.

2. Right-click on the **bin** folder and select **Properties** from the list of options to bring up the bin Properties Window, then click the **Security** tab.



3. Select **Users** in the "Group or user names" list and click **Edit**. The Permissions for bin Window appears.



4. Make sure "Users" is still selected. In the "Permissions for Users" list, click on the **Allow** box next to **Full control**, and click **Apply**. Note that "Allow" is also automatically selected for **Modify**.

5. Click **OK** to exit the **bin Properties** window.

6. Generate a private key using OpenSSL. Options include *with password* or *without password*:

- **With Password -** Enter the following: *openssl genrsa -des3 -out server.key 2048*
- **Without Password -** Enter the following: *openssl genrsa -out server.key 2048*

7. Create a Certificate Signing Request (CSR) using Open SSL:

openssl req -new -key server.key -out server.csr

8. Follow the prompts to specify your name, organization name, location, etc.

9. Generate a self-signed certificate:

openssl x509 -req -days 365 -in server.csr -signkey server.key –out server.crt

10. Once you have created the certificate, continue to Importing the Certificate.

Obtaining a Certificate from a Certificate Authority

To obtain a certificate from a certificate authority, you must submit a Certificate Signing Request (CSR) from the provider (e.g., VeriSign, Thawte, Geotrust, Comodo SSL). To submit a CSR:

1. Start by opening an OpenSSL utility on your system. If you require the utility, downloads are available online.

2. Generate a private key using OpenSSL. Options include *with password* or *without password* :

- **With Password -** Enter the following: *openssl genrsa -des3 -out server.key 2048*
- **Without Password -** Enter the following: *openssl genrsa -out server.key 2048*

3. Create a Certificate Signing Request (CSR) using Open SSL:

openssl req -new -key server.key -out server.csr

4. Follow the prompts to specify your name, organization name, location, etc.

5. Submit the generated CSR file to your chosen certificate authority. Refer to the Certificate Authority's website for steps and information.

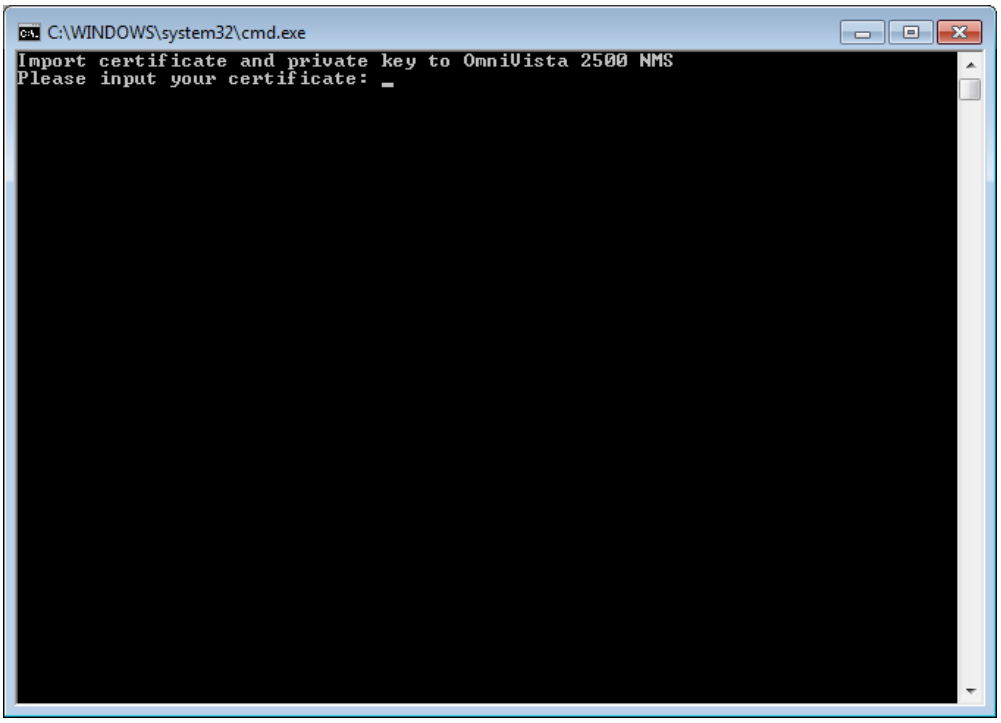
6. Once you have obtained the certificate from the provider, continue to Importing the Certificate.

Importing the Certificate

1. Locate the OmniVista **keystore.bat** file. This file can be found in the scripts directory, located in the **OmniVista 2500 NMS** Program File folder (e.g., C:\Program Files\OmniVista 2500 NMS\scripts). Run it with Administrator privilege.

2. Input the location of the SSL certificate.

3. Input the location of the private key.



4. Stop Apache Tomcat using the Watchdog CLI.

The Watchdog CLI command is available inside Watchdog directory under the install directory base chosen during Installation (e.g., C:\Program Files\OmniVista 2500 NMS\Watchdog).

watchdog-cli stopservice –n ovtomcat

5. Restart Apache Tomcat using the Watchdog CLI.

watchdog-cli startservice –n ovtomcat

6. Once the certificate has successfully imported, launch OmniVista 2500 NMS in a supported browser to view results.

Installing the Java Security Certificate (Windows)

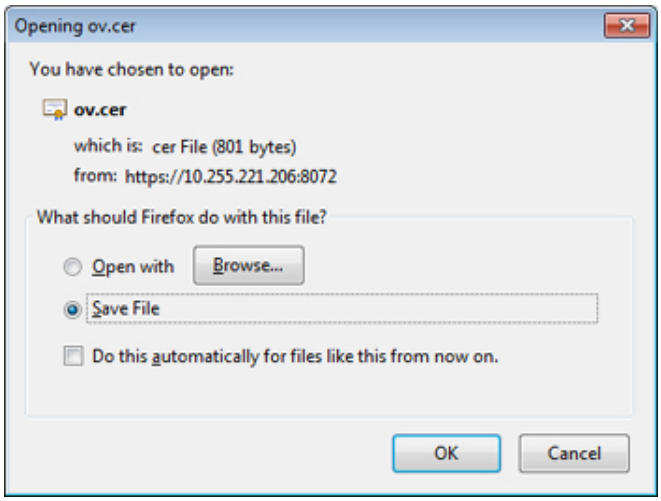
Once you install the OmniVista 2500 NMS software and configure the java settings, you will be able to access the OmniVista Web GUI. However, to launch Java-based applications (e.g., Discovery, Topology), and you **must** add the OmniVista Server to the Java Exception Site List and install the necessary Web Security Certificates.

> **Note:** The Certificates must be installed on clients running Java 1.8. The Certificates are not required on clients running Java 1.7; however, you will receive a number of security warnings. To streamline the launch, it is recommended that you install the Certificate on clients running Java 1.7.

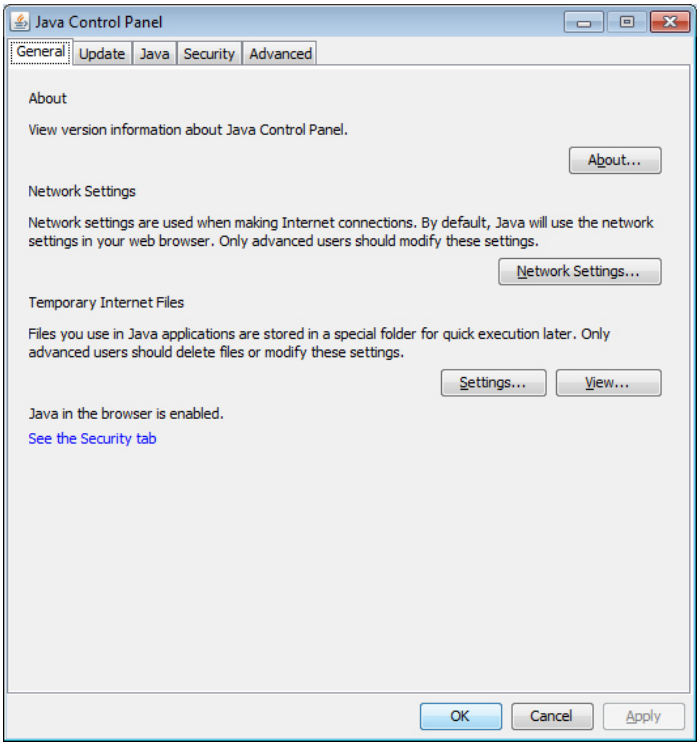
1. Log into OmniVista 2500 NMS.

2. Download the default OmniVista certificate from the OmniVista Server. In the browser window, enter the OmniVista Server IP address and port number, followed by **/webstart/ov.cer**, then press **Enter**. For example, if your OmniVista Server IP address is 10.255.221.209, you would enter *https://10.255.221.209:8072/webstart/ov.cer.* The following window appears.

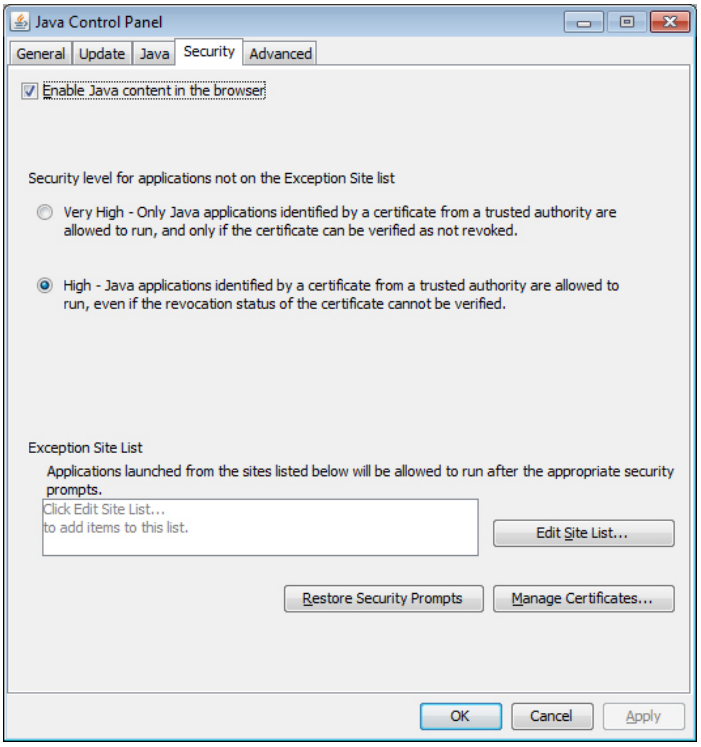
3. Click **OK** to download the certificate.



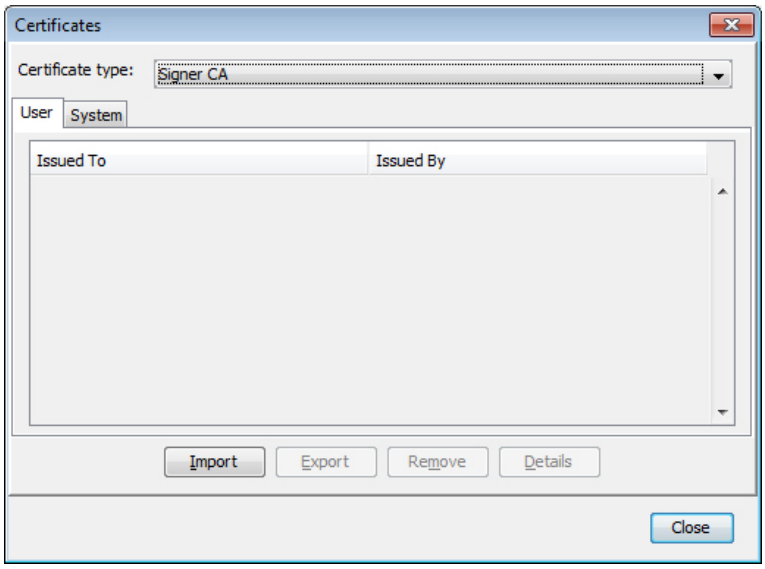
4. Open the **Java Control Panel** - Start > Control Panel > Java.



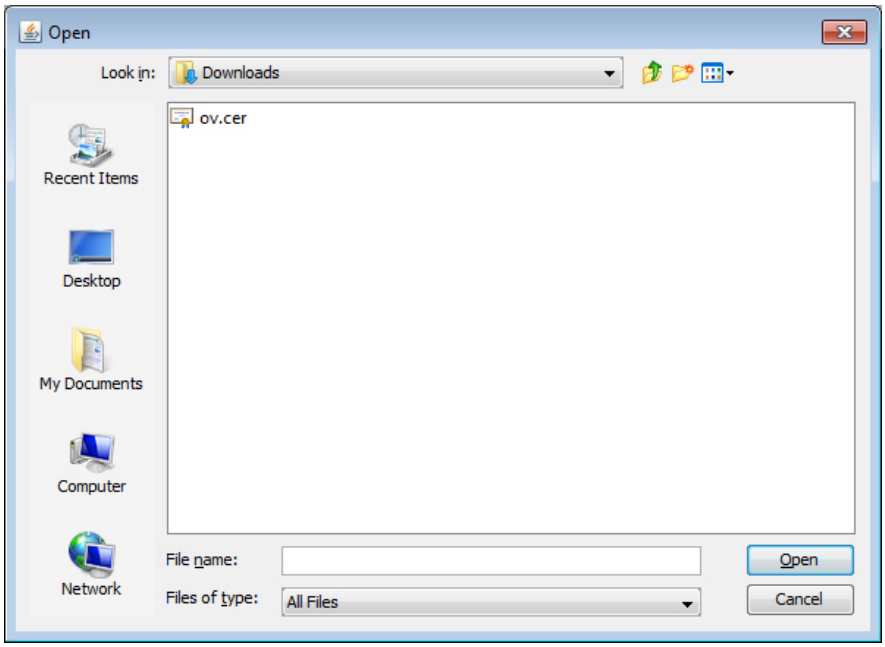
5. Click on the **Security** tab.



6. Click on the **Manage Certificates** button to bring up the Certificates window. *Note that the Security Tab on Java 1.7 clients is slightly different. However, you will still click on the* ***Manage Certificates*** *button to bring up the Certificates window.*

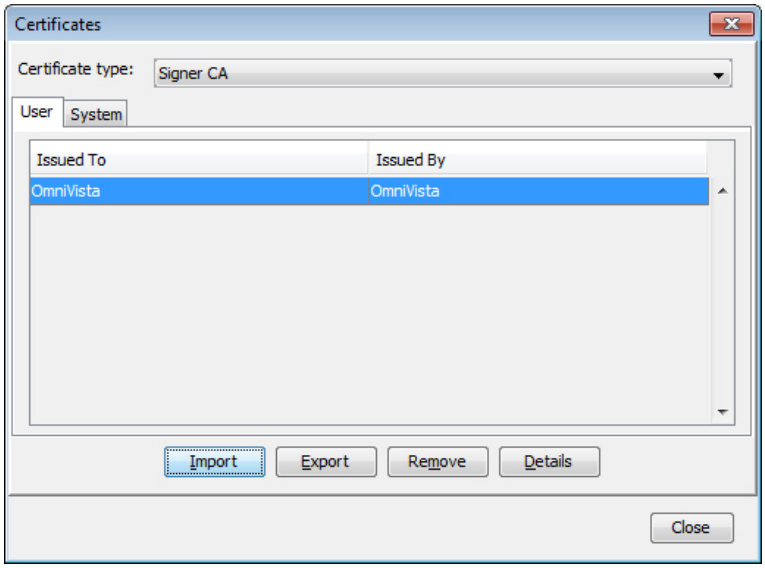


7. In the **Certificate Type** pull-down, select **Signer CA**, then click **Import**.



8. Make sure the **File Type** at the bottom of the window is set to “All Files”, and locate the Certificate file you downloaded in Step 3 (ov.cer). Select the file and click **Open**.

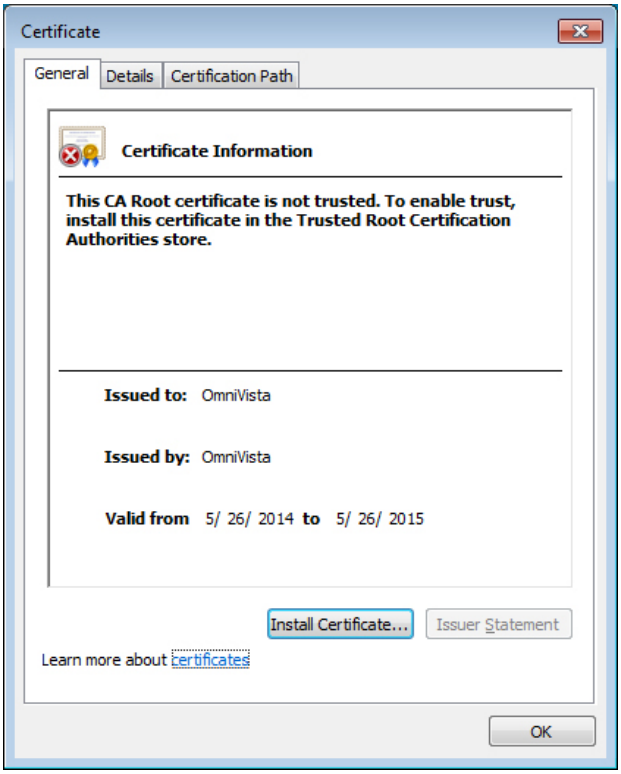
9. You will be returned to the Certificates Screen with the OmniVista Certificate displayed in the User Certificate table, as shown below. Click **Import** to add the certificate to the list of Signer CA certificate types.



10. Click **Close** to exit.

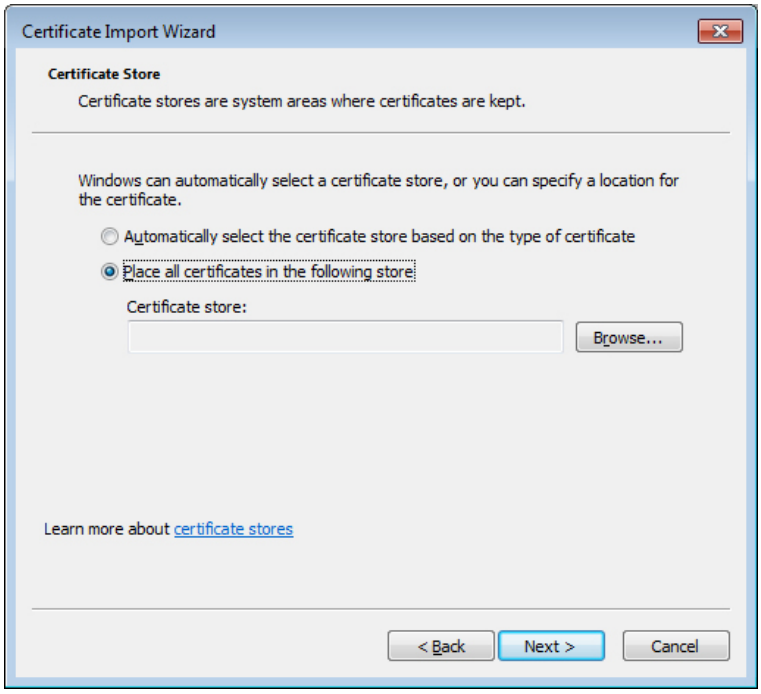
11. Use Explorer to locate the Certificate file (ov.cer) that you downloaded in Step 3, and double click on the file.

12. The certificate's General Information window appears.

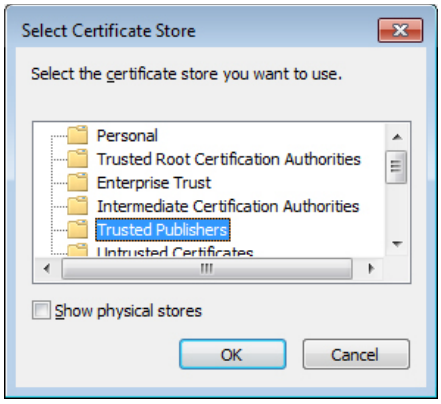


13. Click the **Install Certificate** button. The first screen of the Certificate Import Wizard appears.

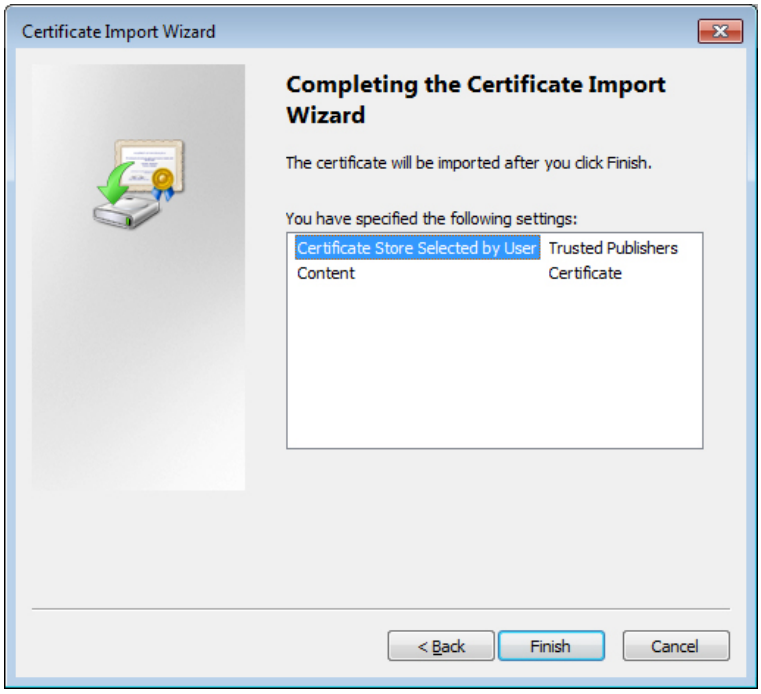
14. Click **Next**. Page 2 of the Wizard appears.



15. Select the "Place all certificates in the following store" radio button, then click **Browse**. The Select Certificate Store window appears.



16. Select the **Trusted Publishers** Folder and click **OK**, then click **Next**. The final Wizard screen appears.



17. Click the **Finish** button.

18. Export the Browser Security Certificate from your browser and download it to your computer. Certificates are exported using the browser's Certificate window. Procedures are different for each browser (e.g., Firefox, Chrome). For example, to export the certificate in a Chrome browser, click on the "Lock" icon in the URL address bar, then click on the "Certificate information" link in the Connections tab to bring up the Certificate window. See each browser's documentation for detailed instructions.

19. Import the Browser Security Certificate as a "Secure Site" Certificate using the Java Control Panel. Follow Steps 5 through 10 above to import the certificate. *For this file however, when you get to Step 7, select **Secure Site** from the Certificate type pull down menu.*

> **Note:** You only have to import a certificate from one browser (Firefox, Chrome, or Internet Explorer). It will then work for all browsers.

Installing Security Certificates (Linux)

Install the Web Security Certificate and the Java Security Certificate as described below.

Installing the Web Security Certificate (Linux)

By default, the OmniVista 2500 NMS Installer creates a self-signed certificate for HTTPS connections. You can override this Self-Signed SSL certificate with your own, by creating a Valid Self-Signed SSL Certificate.

However, Launching OmniVista in a browser using self-signed certificates results in many security warnings. You can reduce the number of HTTPS security warnings by obtaining a valid SSL Server Certificate from a certificate authority. (e.g., VeriSign, Thawte, Geotrust, Comodo SSL). Once you create a valid self-signed certificate, or obtain one from a certificate authority, you must import the certificate using OmniVista's keystore.bat script.

Note: If you already own a valid SSL certificate, skip to Importing the Certificate, below.

Creating a Valid Self-Signed SSL Certificate

Self-signed certificates are useful for users who require encryption but do not need to verify the identity of a requesting website or web application (e.g., OmniVista). Follow the steps below to create a valid self-signed certificate.

1. Generate a private key using OpenSSL. Options include *with password* or *without password*:

- **With Password -** Enter the following: *openssl genrsa -des3 -out server.key 2048*
- **Without Password -** Enter the following: *openssl genrsa -out server.key 2048*

2. Create a Certificate Signing Request (CSR) using Open SSL:

openssl req -new -key server.key -out server.csr

3. Follow the prompts to specify your name, organization name, location, etc.

4. Generate a self-signed certificate:

openssl x509 -req -days 365 -in server.csr -signkey server.key –out server.crt

5. Once you have created the certificate, continue to Importing the Certificate.

Obtaining a Certificate from a Certificate Authority

To obtain a certificate from a certificate authority, you must submit a Certificate Signing Request (CSR) from the provider (e.g., VeriSign, Thawte, Geotrust, Comodo SSL). To submit a CSR:

1. Start by opening an OpenSSL utility on your system. If you require the utility, downloads are available online.

2. Generate a private key using OpenSSL. Options include *with password* or *without password* :

- **With Password -** Enter the following: *openssl genrsa -des3 -out server.key 2048*
- **Without Password -** Enter the following: *openssl genrsa -out server.key 2048*

3. Create a Certificate Signing Request (CSR) using Open SSL:

openssl req -new -key server.key -out server.csr

4. Follow the prompts to specify your name, organization name, location, etc.

5. Submit the generated CSR file to your chosen certificate authority. Refer to the Certificate Authority's website for steps and information.

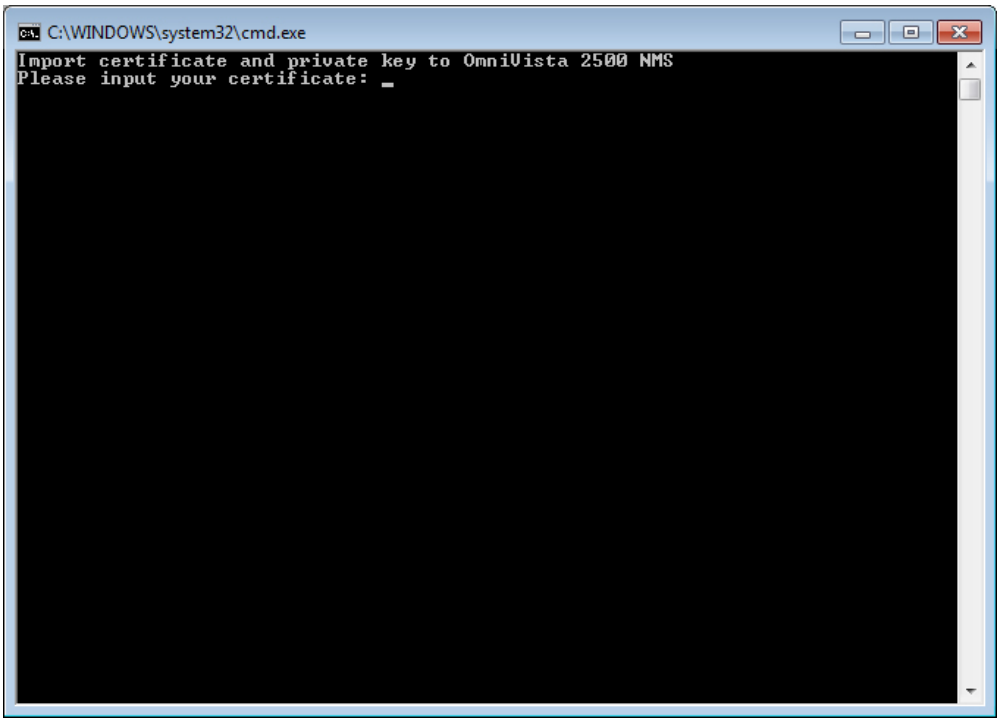
6. Once you have obtained the certificate from the provider, continue to Importing the Certificate.

Importing the Certificate

1. Locate the OmniVista **keystore. sh** file. This file can be found in the scripts directory, located in the **OmniVista 2500 NMS** Program File folder (e.g., C:\Program Files\OmniVista 2500 NMS\scripts). Run it with root privilege.

2. Input the location of the SSL certificate.

3. Input the location of the private key.



4. Stop Apache Tomcat using the Watchdog CLI.

The Watchdog CLI command is available inside Watchdog directory under the install directory base chosen during Installation (e.g., C:\Program Files\OmniVista 2500 NMS\Watchdog).

watchdog-cli.sh stopservice –n ovtomcat

5. Restart Apache Tomcat using the Watchdog CLI.

watchdog-cli.sh startservice –n ovtomcat

6. Once the certificate has successfully imported, launch OmniVista 2500 NMS in a supported browser to view results.

Installing the Java Security Certificate (Linux)

When launching the OmniVista 2500 NMS Java client, especially the first time, several pop-up notices display. To streamline launch and reduce the number of pop-ups, the default OmniVista Certificate should be downloaded, imported and then stored in the Trusted Publishers certificate directory. To download, import, and store the certificate, follow the steps below.

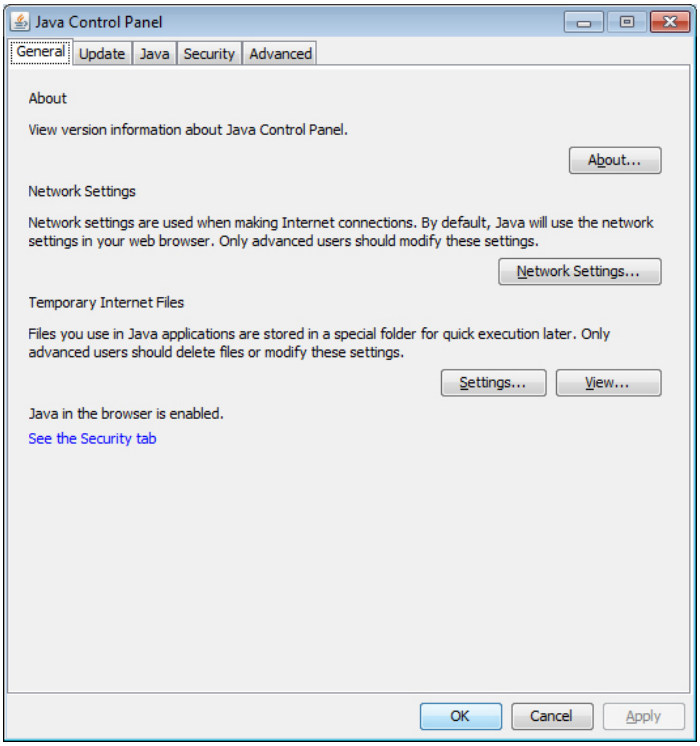
> **Note:** The Certificate **must** be installed on clients running **Java 1.8**. The Certificate is not required on clients running Java 1.7; however, you will receive a number of security warnings. To streamline the launch, it is **recommended** that you install the Certificate on clients running **Java 1.7**.

1. Log into OmniVista 2500 NMS.

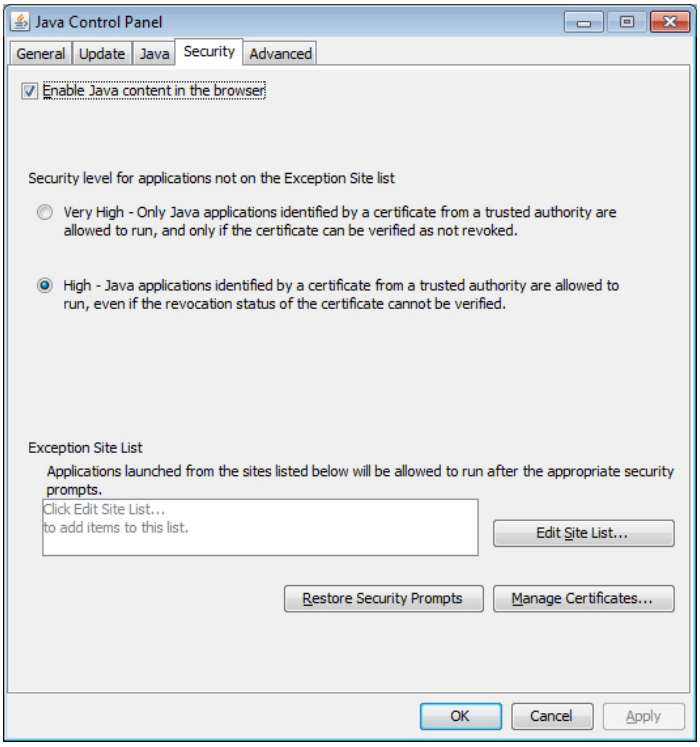
2. Download the default OmniVista certificate from the OmniVista Server. In the browser window, enter the OmniVista Server IP address and port number, followed by **/webstart/ov.cer**. For example, if your OmniVista Server IP address is 10.255.221.209, you would enter *https://10.255.221.209:8072/webstart/ov.cer.*

3. Press **Enter** to download the certificate.

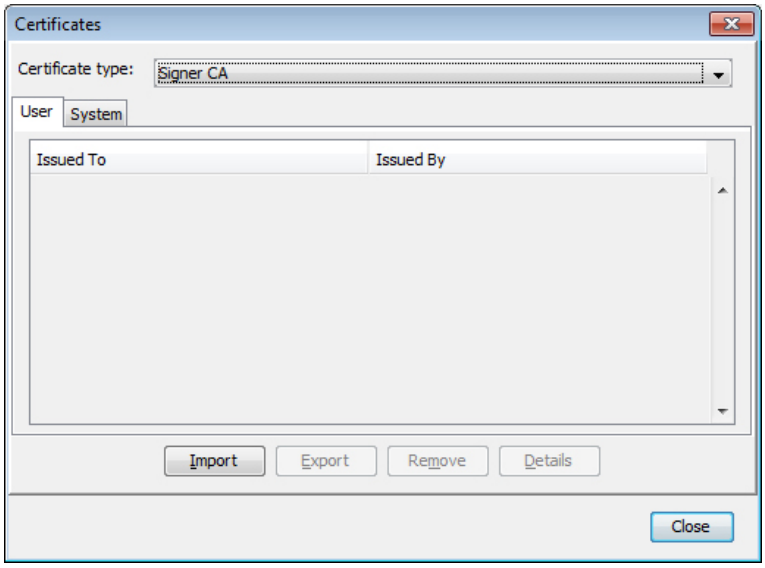
4. Open the **Java Control Panel** - Start > Control Panel > Java.



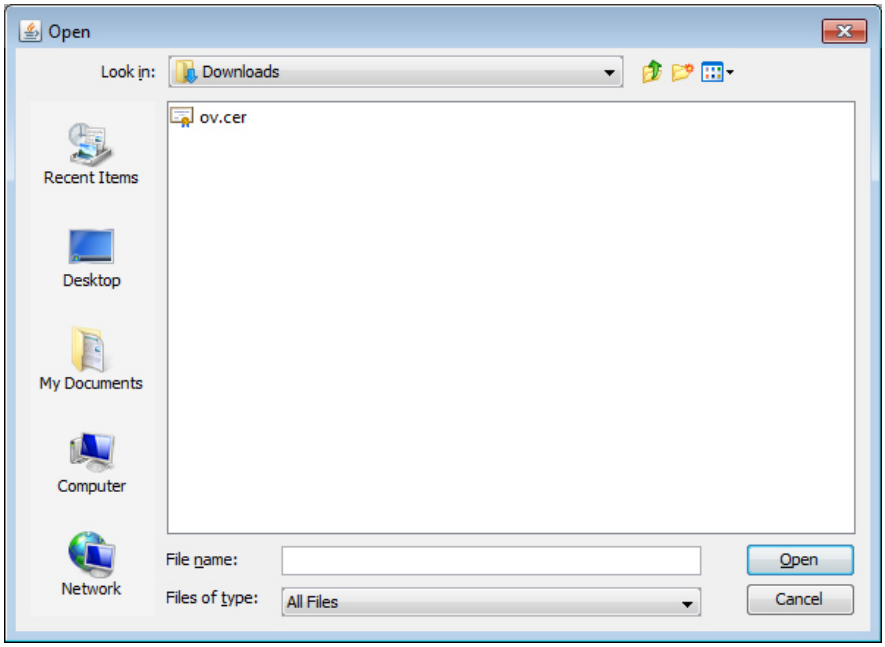
5. Click on the **Security** tab.



6. Click on the **Manage Certificates** button to bring up the Certificates window. *Note that the Security Tab on Java 1.7 clients is slightly different. However, you will still click on the **Manage Certificates** button to bring up the Certificates window.*

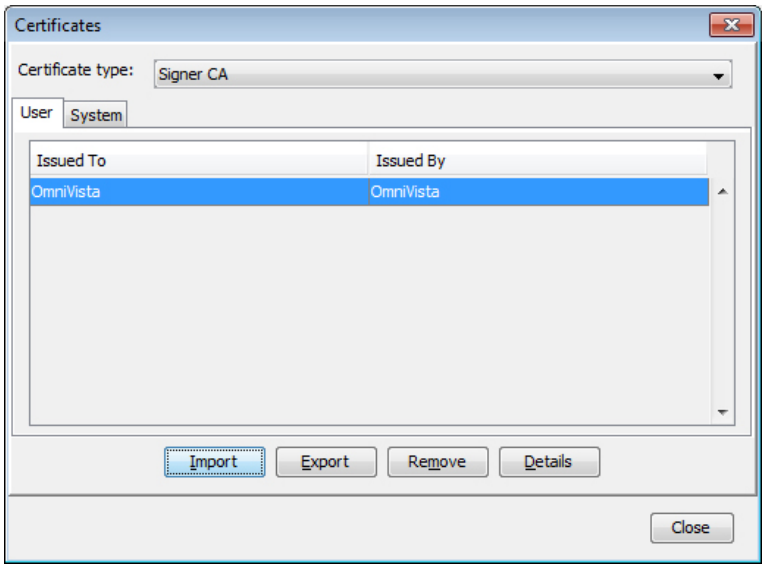


7. In the **Certificate Type** pull-down, select **Signer CA**, then click **Import**.



8. Make sure the **File Type** at the bottom of the window is set to “All Files”, and locate the Certificate file you downloaded in Step 3 (ov.cer). Select the file and click **Open**.

9. You will be returned to the Certificates Screen with the OmniVista Certificate displayed in the User Certificate table, as shown below.



10. Click **Close** to exit.

11. Use the “ca-certificates” package to install the Certificate (ov.cer) to the Trusted Source Directory.

- Make sure you have the “ca-certificates” package installed.

  rpm –qa | grep certificate

- If you **do** have the package installed, **go to Step 3**. If not, install it using the following command.

  yum install ca-certificates

- Enable the dynamic CA configuration feature:

  update-ca-trust enable

- Copy the file to the /etc/pki/ca-trust/source/anchors/ Directory:

  cp ov.cer /etc/pki/ca-trust/source/anchors/

- Extract the file:

  update-ca-trust extract

Upgrading from a Previous Version of OmniVista 2500 NMS

Follow the steps below to backup an existing OmniVista 2500 NMS Database and restore it to the new installation. The procedure is different depending on whether your existing installation is 3.5.7 or 4.1.1 and later.

Note: You can only upgrade from OmniVista 3.5.7 and later to 4.1.2.R02 GA.

Upgrading from 3.5.7

Follow the steps below to upgrade from OmniVista 3.5.7. If you are upgrading to a Virtual Appliance installation, click here for procedures.

1. On the existing installation of OmniVista 2500 NMS (OmniVista 3.5.7), change “admin” user's password to “switch”.

2. On the existing installation of OmniVista 2500 NMS, open the **Server Backup** Application and perform a backup. Store the Backup File in a safe place outside of the installation server. See the Server Backup Application on-line help for more information.

3. Install OmniVista 4.1.2.R02. Be sure to also configure Java Settings and install the necessary security certificates on any clients you will be using to access OmniVista.

> **Note:** If you are installing 4.1.2.R02 **on the same server** as the existing installation, uninstall the existing installation completely and rename the existing installation folder (e.g., ‘C:\Program Files\OmniVista 2500 NMS’ to ‘C:\Program Files\OmniVista 2500 NMS OLD’). Click here for uninstall procedures.

3. Wait for the OmniVista Server to start completely and login to the OmniVista 2500 NMS 4.1.2.R02 Web UI.

4. Open the Server Backup application (**Administrator > Server Backup**). Keep this application window open.

5. Open the Watchdog application **(Administrator > Control Panel > Watchdog**).

6. On the Watchdog Screen, click on **OmniVista Client Core Service** to open the service's details panel, then click on the **Stop Service Tree** button.

> **Note:** This will stop the web application server and you will lose your Web UI session. But the Server Backup UI window will remain open

7. On the previously opened Server Backup window, perform a restore using the OmniVista 3.5.7 backup file you created.

> **Note:** When you perform a restore from a 3.5.7 installation, you have to manually re-create the Backup Repository on second page of the Restore Wizard to create the Backup Repository.

- On the first page of the Restore Wizard, select the Backup Directory that contains the Backup File you want to restore and Click **Next**.
- On the second page of the Restore Wizard, select the Server Backup Repository in the table that contains the Backup File and click on the **Restore** button.
- Click on the **New** button and create a Server Backup Repository with the **same Base File Name** as Backup Directory you selected in Step 3.
  - Enter the name in the **Base File Name** field (enter an optional Repository Description).
  - Click **OK**. The Backup Repository will now be displayed and selected in the Repository Files drop-down list.
- Click on the **Restore** button to complete the restore.

  See the “Performing a Restore from a Different Server” section in the Server Backup Application on-line help for more information.

8. After a successful restore, start the OmniVista Client Core Service and the OmniVista Apache Tomcat Service on the OmniVista Server. The commands below can be executed from CMD in Windows or Terminal in Linux. Change to the Watchdog directory under the install directory base (chosen during Installation).

- **Windows:**

  watchdog-cli startservice –n ovclient

  watchdog-cli startservice –n ovtomcat

- **Linux:**

  watchdog-cli.sh startservice –n ovclient

  watchdog-cli.sh startservice –n ovtomcat

9. After these services startup successfully, you will be able to login to the OmniVista 2500 NMS Web UI again.

Upgrading to a Virtual Appliance Installation

Follow the steps below to upgrade from 3.5.7 to a Virtual Appliance (VA) installation.

1. On the existing installation of OmniVista 2500 NMS (OmniVista 3.5.7), change “admin” user's password to “switch”.

2. On the existing installation of OmniVista 2500 NMS, open the **Server Backup** Application and perform a backup. See the Server Backup Application On-Line Help for more information.

3. Use an FTP client to copy backup file generated in Step 2 above, to a fresh installation of OmniVista 2500 NMS VA.

- FTP User: admin
- FTP Password: admin
- FTP Port: 8888

Note: Do not change the directory after logging into the FTP session. After a successful FTP, the file will be present in the directory /home/admin/omnivista/ng_shared/temp/admin on the VA.

4. Perform a fresh deployment of OmniVista 2500 NMS 4.1.2.R02 VA.

Note: If you have not shutdown the 3.5.7 installation, make sure there is no IP address conflict between the 3.5.7 installation and the 4.1.2.R02 installation.

5. Login to the OmniVista 2500 NMS 4.1.2.R02.Web UI.

6. Open the Server Backup application (Administrator > Server Backup). Keep this application window open.

7. Open the Watchdog application (Administrator > Control Panel > Watchdog).

8. On the Watchdog Screen, click on **OmniVista Client Core Service** to open the service's details panel, then click on the Stop Service Tree button.

Note: This will stop the web application server and you will lose your Web UI session. But the Server Backup UI window will remain open.

9. On the previously opened Server Backup window (from Step 6), perform a restore using the OmniVista 3.5.7 backup file you FTPed to the default directory. See the Server Backup On-Line Help for information on performing the restore.

10. After the OmniVista Services startup, you will be able to login to the Web UI of OmniVista 2500 NMS VA again.

Upgrading from 4.1.1 GA (and later)

Follow the steps below to upgrade from OmniVista 4.1.1 GA (and later) to 4.1.2.R02 GA. When upgrading from OmniVista 4.1.1 GA (and later), you basically install the new version over the previous one. If you are upgrading to a Virtual Appliance installation, click here for procedures.

> **Note:** Before you begin the upgrade, perform a backup of the existing installation of OmniVista and FTP it to a safe place outside of this server. Click here for backup/restore procedures. Also, make a note of where the existing version of OmniVista 2500 NMS is installed (e.g., C:\Program Files\OmniVista 2500 NMS).

Install the new version in that same directory following the instructions in Installing the OmniVista 2500 NMS Software (beginning with Step 3). The installation procedures are the same, except you will accept the following warning prompts that appear when installing an upgrade.

- "Existing Data" dialog asks you to confirm if you want to migrate data, select "Yes".
- "Overwrite Existing File" dialog prompts for confirmation before overwriting an existing file, select "Yes to All".
- Information dialog pops-up informing you the file "mibsets.txt" will be renamed to "mibsets.txt.bak", select "OK".

Backup/Restore Procedures

Follow the steps below to backup and restore OmniVista 2500 NMS.

Backup

Go to the scripts directory of the OmniVista 2500 NMS installation folder and execute "backup-ngnms.bat" (for Window) or "backup-ngnms.sh" (for Linux).

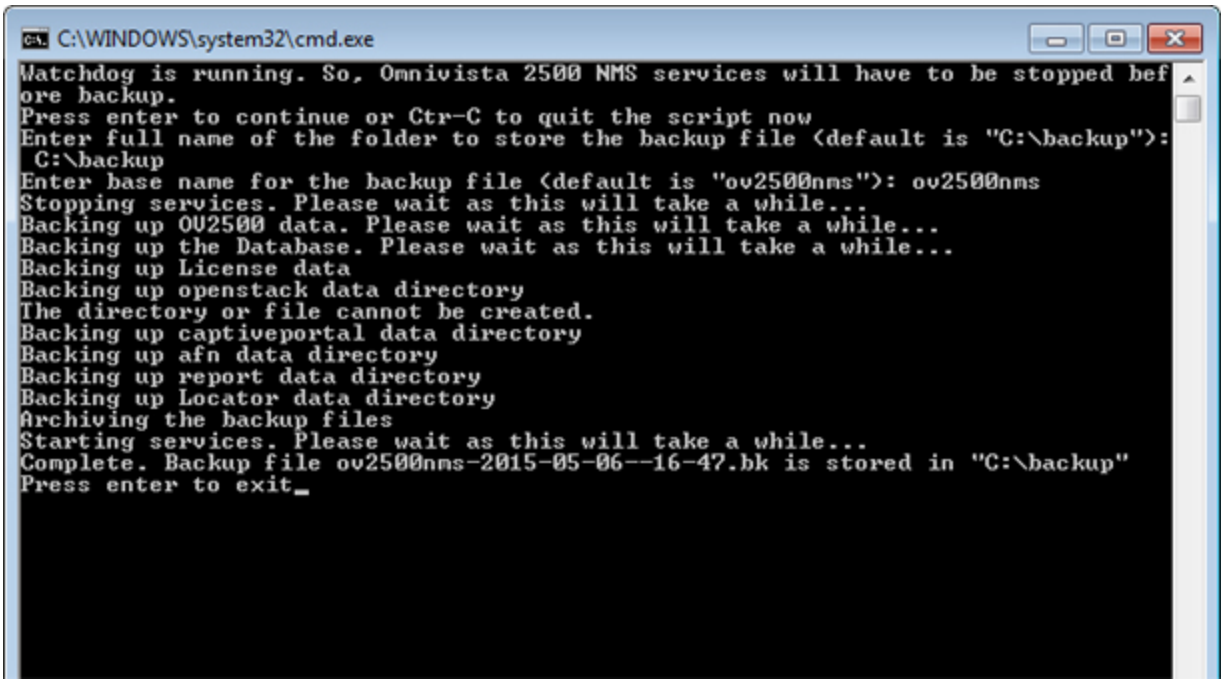
> **Note:** If Watchdog is running, you will receive a message "Watchdog is running. OmniVista NMS Watchdog Services will have to be stopped…Press **Enter** to continue". Press **Enter** and go to Step 1.

1. Input the path of the Backup Directory (default is "C:\backup" on Windows and "/root/Desktop/defaultbackupdir" on Linux). Press **Enter**.

2. Enter the Backup's base name (default is "ov2500nms"). Press **Enter**.

A "Stopping services" message will appear as the services are automatically stopped. This may take some time to complete. When the services have been stopped, the backup will start. When the backup is complete, a "Starting services" message will appear. When the process is complete the output file will be stored in the Backup Directory under the name: *<base name>_<yyyy-MM-dd--HH-mm>.bk*.

3. Press **Enter** to exit. The full process is shown in the screen below.



Restore

Go to the scripts directory of the OmniVista 2500 NMS installation folder and execute “restore-ngnms.bat” (for Window) or “restore-ngnms.sh” (for Linux).

> **Note:** If Watchdog is running, you will receive a message “Watchdog is running. OmniVista NMS Watchdog Services will have to be stopped…Press **Enter** to continue”. Press **Enter** and go to Step 1.

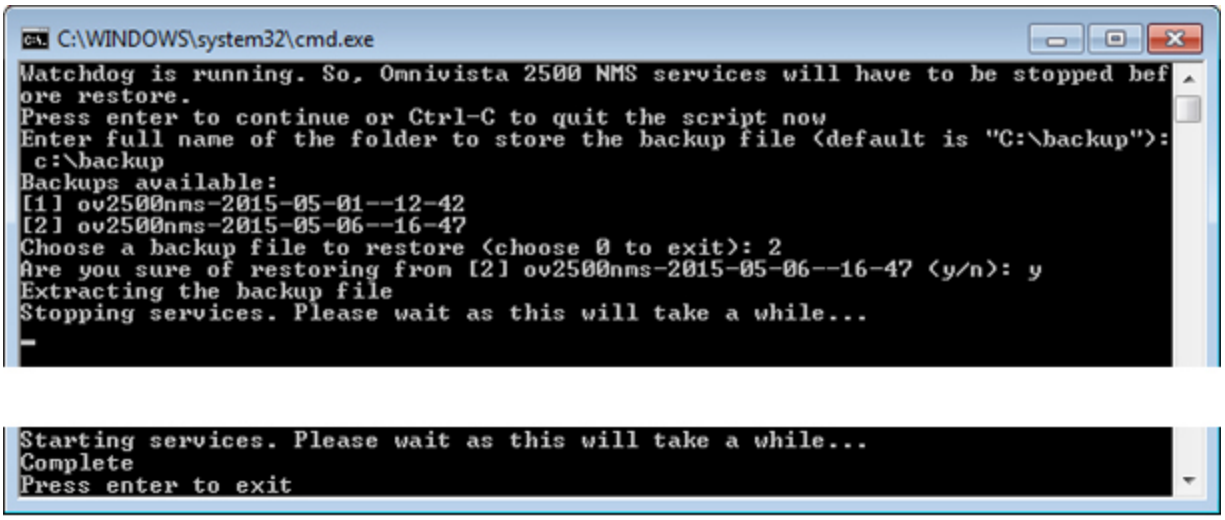
1. Input the path of the Backup Directory (default is “C:\backup” on Windows, and “/root/Desktop/defaultbackupdir” on Linux). If there are no backups in the directory, the process will be stopped. Otherwise, a list of backup files is displayed.

2. Choose a Backup File by selecting the number (e.g., 1) in the list and press **Enter**.

3. Press **y** at the confirmation prompt.

A “Stopping services” message will appear as the services are automatically stopped. This may take some time to complete. When the services have been stopped, the restore will start. When the restore is complete, a “Starting services” message will appear. When the process is complete, you will be prompted to restore license information. If you select **Yes**, the current license will be overwritten with the one from the Backup File.

4. Press **Enter** to exit. An overview of the process is shown in the screens below.



Upgrading to a Virtual Appliance Installation

Follow the steps in the following sections to upgrade to a virtual appliance installation from a VA installation.

Upgrading from a VA Installation to a VA Installation

To upgrade from an old VA installation to a new VA installation, backup the previous OmniVista 2500 NMS VA installation and restore it to the new OmniVista 2500 NMS VA installation. Click here for backup/restore procedures. After a successful restore, reboot the Virtual Appliance from console.

Uninstalling OmniVista 2500 NMS

General Concepts for Uninstalling on Any Platform

When you uninstall OmniVista 2500 NMS, the directory where you installed OmniVista is not removed. For example, on Windows the default installation directory is: C:\Program Files\OmniVista 2500 NMS. If you wish to completely uninstall OmniVista 2500 NMS and delete ALL data and files pertaining to it, delete this directory manually AFTER the uninstall.

Uninstalling on Windows

To uninstall OmniVista 2500 NMS on a Windows platform.

Select Start > Control Panel > Programs and Features, select OmniVista 2500 NMS from the list of programs and select **Uninstall**.

Uninstalling on Linux

At the command prompt, change to the installation directory, then enter: ./Uninstall_OmniVista.

> **Note:** The uninstall process is GUI based so be sure the GUI can be launched from where the installation is attempted. (This might require starting up X-server on the Linux server and/or exporting the display appropriately.)

Deploying OmniVista 2500 NMS as a Virtual Appliance

OmniVista 2500 NMS Virtual Appliance can be deployed on the following supported platforms:

- VMware ESXi 5.0 and above
- VMware Player 4.0 and above
- VMware vCenter Server 5.0 and above

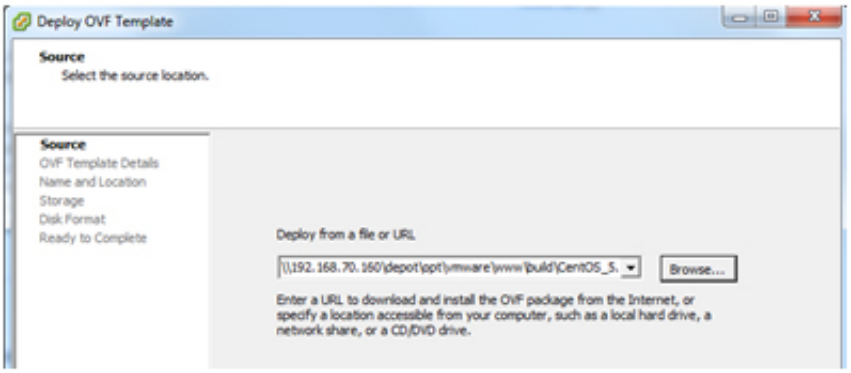
The sections below detail each of the steps required to deploy OmniVista 2500 NMS as Virtual Appliance.

Deploying the Virtual Appliance

Note that in the instructions below, vCenter is used for demonstration purposes.

1. Log into vCenter and open the vSphere client.

2. Select **File > Deploy OVF Template**. The Deploy OVF Template Wizard appears.



3. Follow additional steps in the Virtual Appliance deployment wizard. The wizard may prompt the following steps:

- Review VM details.
- Review and accept end user license agreement.
- Specify a name and location for the deployed template.
- Select the host or cluster where the template is to be deployed
- Storage location of VM files.
- Disk formatting (Thin or Thick Provision). (**Thick** provision is recommended.)
- Network mapping.

4. If the new Virtual Appliance was not powered on via the deployment wizard, power on the VM now.

Launching the Console and Setting a Password

1. Launch the Console for the new Virtual Appliance. (In vCenter, this can be done by right-clicking on the OVF file from the navigation tree and selecting **Open Console**.)

2. Specify a new password for the administrative password, then re-enter to confirm the new password.

Note: The password should be an alpha-numeric string with a minimum of eight (8) characters and should not be based on dictionary words. Be sure to store the password in a secure place. Users will be prompted for the password at the end of the installation. Lost passwords cannot be retrieved.

```
================================================================================
Configure admin user...
================================================================================
Changing password for user admin.
New password:
```

3. Enter **1** to display the current configuration.

```
* IPv4 Address: 192.168.70.101                                                 *
* NetMask: 255.255.255.0                                                       *
*                                                                              *
* IPv6 Address: 2001::101                                                      *
* Prefix: 64                                                                   *
*                                                                              *
* HTTP Port: 8071                                                              *
* HTTPS Port: 8072                                                             *
* Data Port: 1127                                                              *
*                                                                              *
* Default gateway v4: 192.168.70.1                                             *
* Default gateway v6: 2001::1                                                  *
*                                                                              *
* Hostname: hostnameva                                                         *
*                                                                              *
* DNS Server 1: 192.168.1.3                                                    *
* DNS Server 2: 192.168.1.11                                                   *
*                                                                              *
* Proxy Server 1: http_proxy=http://tma.com.vn:8080                            *
*                                                                              *
* Timezone: Asia/Ho_Chi_Minh                                                   *
*                                                                              *
********************************************************************************
Press Enter to continue. . .
```

Configuring OmniVista 2500 NMS

1. Enter **2** at the prompt to configure OmniVista 2500 NMS. Configuring the OmniVista 2500 NMS provides options for two (2) system settings:

- Configuring the System IP
- Configuring the System Port

2. Enter **y** at the "Configure system IP" prompt.

3. Enter an IPv4 address. (Press **Enter** to accept the default value.)

4. Enter the IPv4 network mask. (Press **Enter** to accept the default value.)

5. An IPv6 address is optional. To configure an IPv6 address, enter **y** at the “Do you want to use IPv6?” prompt. (If no IPv6 is being configured, skip to Step 7).

6. Enter an IPv6 address and a prefix value. (Valid prefix range: 0 to 128.)

Note: New port values must be unique (i.e., they must differ from any previously-configured ports). If an error occurs, settings will revert to default values.

7. Enter **y** to confirm the settings. Press **Enter** to access the next option.

8. Configure a system port by entering **HTTP**, **HTTPS** and **Data Port** values.

- HTTP Port (Valid range: 1024 to 65535)
- HTTPS Port (Valid range: 1024 to 65535)
- Data Port (Valid range: 1024 to 65535)

  Note: You can press **Enter** to keep default values. New port values must be unique (i.e., they must differ from any previously-configured ports).

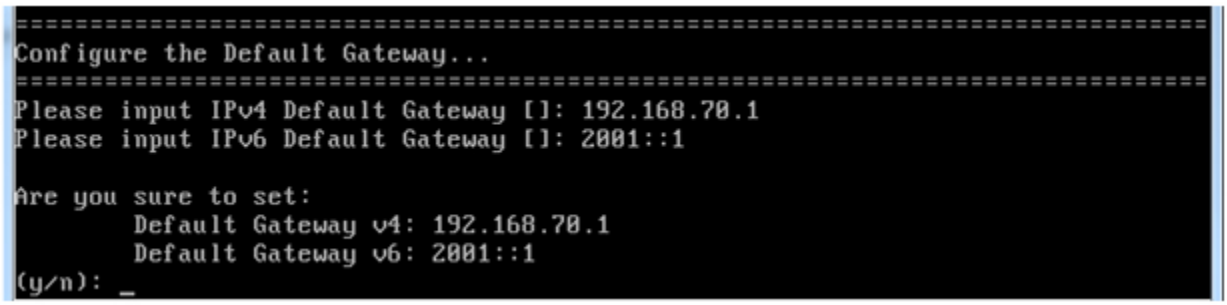
9. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Configuring the Default Gateway

1. At the Main Menu prompt, enter **Option 3** to configure default gateway settings.

2. Enter an IPv4 default gateway.

3. If an IPv6 address was configured at the previous steps, enter an IPv6 gateway address. Otherwise, go to Step 4.



Note: You can press **Enter** to keep default values. If an error occurs, settings will revert to default values.

4. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Configuring the Hostname

1. At the Main Menu prompt, enter Option **4** to configure the hostname.

2. Enter a hostname.

```
================================================================================
Configuring Hostname...
================================================================================
Please enter a hostname [omnivista]: hostnameva

Are you sure to set:
        Hostname: hostnameva
(y/n): _
```

3. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Specifying a DNS Server

1. At the Main Menu prompt, enter Option **5** to specify whether the VM will use a DNS Server.

2. If the VM will use a DNS server, enter the IPv4 address for Server 1 and Server 2. (Press Enter to accept the default values.)

```
================================================================================
Configuring DNS Server...
================================================================================

Are you sure to use a DNS Server? (y/n): y
Please input DNS Server 1 [192.168.1.3]:
Please input DNS Server 2 [192.168.2.3]: 192.168.1.11

Are you sure to set:
        DNS Server 1: 192.168.1.3
        DNS Server 2: 192.168.1.11
(y/n): _
```

Note: If **n** (No) is selected, all DNS Servers will be disabled.

3. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Specifying a Proxy Server

1. At the Main Menu prompt, enter Option **6**, to specify whether the VM will use a Proxy Server.

2. If the VM will use a proxy server, enter the Proxy Server, along with the port (e.g., proxy_serv.com:8080).

```
================================================================================
Configuring Proxy Server...
================================================================================

Are you sure to use a Proxy Server to reach the Internet? (y/n): y
Please enter Proxy Server (http:// will be auto prepended): tma.com.vn
Please enter port: 8080

Are you sure to set:
        Proxy Server: http://tma.com.vn:8080
(y/n): _
```

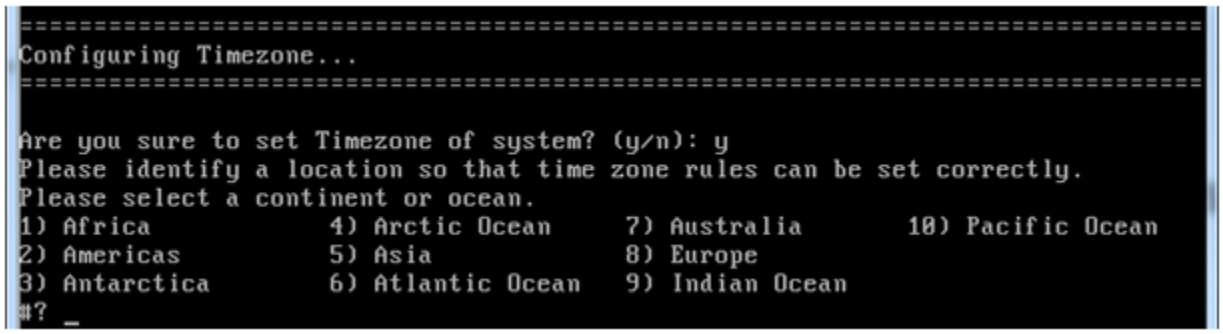
Note: If **n** (No) is selected, all proxy servers will be disabled. The prefix “http://” will prepend automatically.

3. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Setting the Time Zone

1. At the Main Menu prompt, enter Option **7** to begin setting up the time zone; then confirm by typing **y** at the prompt.

2. Select the region for the VM by entering its corresponding numeric value.



3. Select a country within the region by entering its corresponding numeric value.

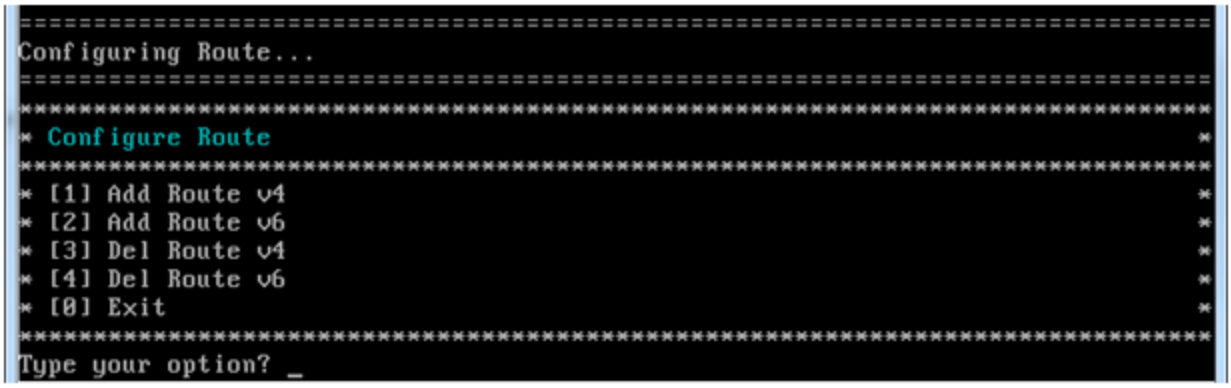
4. If prompted, enter the numeric value for the specific time zone within the country.

5. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.

Configuring a Route

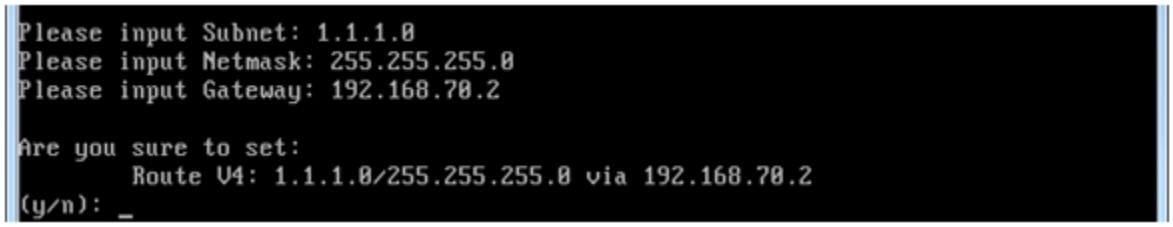
1. At the Main Menu prompt, enter option **8** to begin configuring a route.

2. Configure an IPv4 route by entering **1** at the command prompt.



3. Enter the subnet, netmask and gateway.

4. Enter **y** to confirm the settings. Press Enter to return to the Configure Route menu. (To exit, select option 0.)



5. Configure an IPv6 route (optional) by selecting Option **2** from the Configure Route Menu.

6. Enter the subnet, prefix and gateway for the IPv6 route. (The valid prefix range is 0 to 128.)

7. Enter **y** to confirm the settings. Press **Enter** to return to the Configure Route Menu.

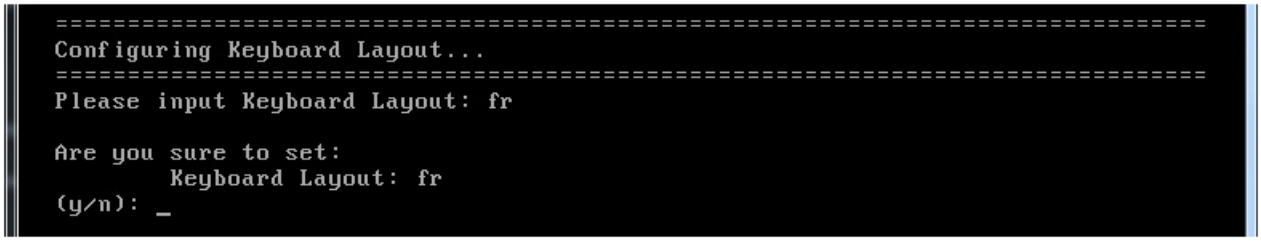
8. Enter **0** to exit to the Main Menu.

Configuring the Keyboard Layout

1. At the Main Menu prompt, enter Option **10**, to specify the keyboard layout.

2. Enter a keyboard language (e.g., fr).

3. Enter **y** to confirm the settings. Press **Enter** to access the Main Menu.



The table below lists all supported keyboard layouts.

amiga-de	amiga-us	atari-uk-falcon	atari-se
atari-us	atari-de	pt-olpc	es-olpc
sg-latin1	hu	sg	fr_CH
de-latin1-nodeadkeys	fr_CH-latin1	de-latin1	de_CH-latin1
cz-us-qwertz	sg-latin1-lk450	croat	slovene
sk-prog-qwertz	sk-qwertz	de	cz
wangbe	wangbe2	fr-latin9	fr-old
azerty	fr	fr-pc	be-latin1
fr-latin0	fr-latin1	tr_f-latin5	trf-fgGIod
backspace	ctrl	applkey	keypad
euro2	euro	euro1	windowkeys
unicode	se-latin1	cz-cp1250	il-heb
ttwin_cplk-UTF-8	pt-latin1	ru4	ruwin_ct_sh-CP1251
ruwin_alt-KOI8-R	no-latin1	pl1	cz-lat2
nl2	mk	es-cp850	bg-cp855
by	uk	pl	ua-cp1251
pt-latin9	sk-qwerty	se-lat6	bg_bds-cp1251
ruwin_cplk-UTF-8	br-abnt	la-latin1	sr-cy
ruwin_ctrl-CP1251	ua	dk	ru-yawerty
mk-cp1251	ruwin_cplk-KOI8-R	kyrgyz	defkeymap_V1.0
se-fi-lat6	ruwin_ctrl-UTF-8	ro	fi
sk-prog-qwerty	trq	fi-latin9	gr
ru3	us	ruwin_ct_sh-KOI8-R	nl
ro_std	ttwin_alt-UTF-8	trf	ruwin_alt-UTF-8
it-ibm	il	by-cp1251	it
emacs	fi-latin1	pc110	bg_bds-utf8
tralt	defkeymap	bg_pho-utf8	ua-ws
cf	hu101	bg_pho-cp1251	se-ir209
ttwin_ctrl-UTF-8	cz-lat2-prog	br-latin1-us	mk-utf
cz-qwerty	ruwin_cplk-CP1251	ttwin_ct_sh-UTF-8	ru1
ruwin_ctrl-KOI8-R	ru-ms	no	us-acentos
pl2	sv-latin1	br-latin1-abnt2	et
ru-cp1251	ruwin_alt-CP1251	ru	it2
lt.l4	ua-utf	bywin-cp1251	bg-cp1251
ru_win	emacs2	dk-latin1	kazakh
br-abnt2	es	pl4	mk0
is-latin1	is-latin1-us	il-phonetic	fi-old
et-nodeadkeys	jp106	lt	ru2
ruwin_ct_sh-UTF-8	pt	se-fi-ir209	gr-pc
lt.baltic	tr_q-latin5	pl3	ua-utf-ws
bashkir	no-dvorak	dvorak-r	dvorak
ANSI-dvorak	dvorak-l	mac-euro	mac-euro2
mac-fr_CH-latin1	mac-us	mac-de-latin1	mac-be

mac-es	mac-pl	mac-se	mac-dvorak
mac-fi-latin1	mac-template	mac-dk-latin1	mac-de-latin1-nodeadkeys
mac-fr	mac-pt-latin1	mac-uk	mac-it
mac-de_CH	sunt4-no-latin1	sunt5-cz-us	sundvorak
sunt5-de-latin1	sunt5-us-cz	sunt5-es	sunt4-fi-latin1
sunkeymap	sunt4-es	sunt5-ru	sunt5-uk
sun-pl	sunt5-fr-latin1	sunt5-fi-latin1	sun-pl-altgraph

Updating the SSL Certificate

Generate a *.crt and *.key file and upload the files to the /home/admin/omnivista/ng_shared/temp/admin/keys directory.

1. At the Main Menu prompt, enter Option **11**.

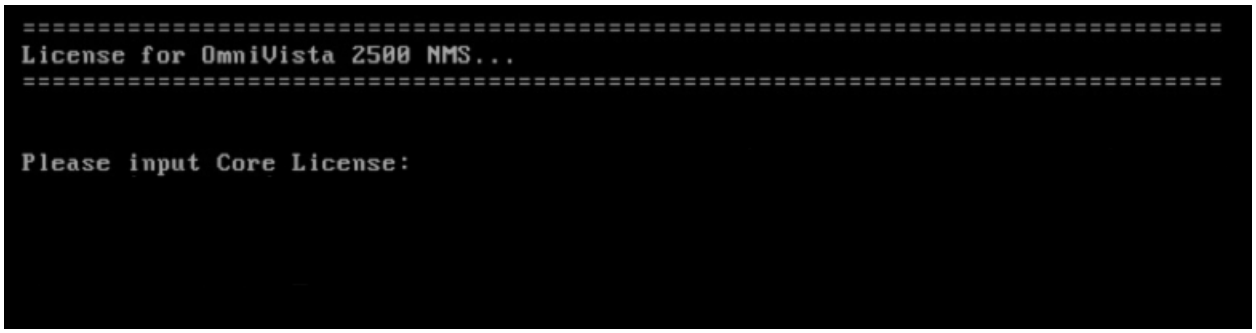
2. Choose a file certificate file (.crt) and enter **y**. Choose a private key file (.key) and enter **y**. The Tomcat service will be restarted.

```
================================================================================
Update the SSL Certificate for OV 2500 NMS...
================================================================================
Certificates available in directory /home/admin/omnivista/ng_shared/temp/admin/k
eys:
        [1] server.crt
Choose the certificate file to apply (choose 0 to exit): 1
Are you sure you want to apply this certificate?
        [1] server.crt
(y/n): y
Private keys available in directory /home/admin/omnivista/ng_shared/temp/admin/k
eys :
        [1] server.key
Choose the private key file to apply (choose 0 to exit): 1
Are you sure you want to use this private key?
        [1] server.key
(y/n): _
```

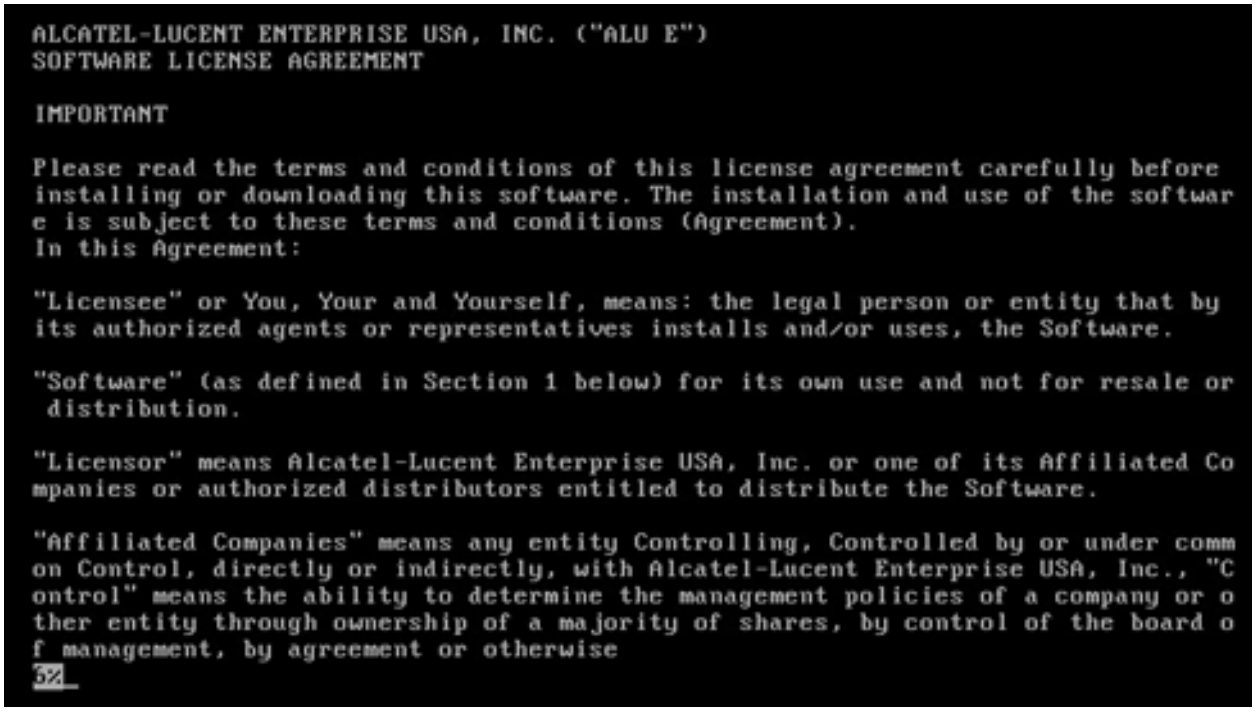
Activating the Software License

All users are required to have a valid Core License and must accept the Alcatel-Lucent Enterprise end user license agreement (EULA). (VMM and Application Visibility licenses are optional).

1. Once the OmniVista 2500 NMS has been configured, users are prompted for the Core License number. Enter the license at the prompt and press **Enter**.



2. Accept the Core License terms and conditions. (Press **Enter** or the down arrow to scroll through the terms and conditions. Press **Enter** to display the “Accept End user license agreement” prompt, then enter **y** to accept.)



Configuring ProActive Lifecycle Management Settings

The ProActive Lifecycle Management Feature periodically gathers detailed information for all discovered devices on your network and periodically uploads the information to the ProActive Lifecycle Management Web Portal. The information is also available to you through a widget that can be displayed on the OmniVista 2500 NMS Dashboard for easy reference.

If you choose not to enable the ProActive Lifecycle Management Feature at installation, you can enable it at a later time in the Preferences Application. And if you enable it at install, you can disable it at a later time in the Preferences Application.

1. To enable this feature, enter **y** at the command prompt.

2. To enable a Proxy for the ProActive Lifecycle Management feature, enter **y** at the “enable Proxy” at the command prompt. Otherwise, enter **n** to bypass Proxy configuration and skip to “Activating Optional Software Licenses.”

3. If configuring a Proxy, enter the host name, port, user name and password.

```
17. Notices. If Licensee has any questions concerning this product or would like
 to otherwise contact ALE USA INC., please write to:
ALE USA Inc., 26801 West Agoura Road, Calabasas, CA 91301
ATTN: Sales.

Copyright 2015 ALE USA Inc.

Accept End user licensing agreement (y/n): y
New Core license is updated

Would you like to enable ProActive Lifecycle Management feature (y/n) [y]: y

Would you like to enable Proxy for ProActive Lifecycle Management feature (y/n)
[n]: n
Do you want to add VMM License [y/n] (y): _
```

Activating Optional Software Licenses

You can also activate optional VMM and Application Visibility licenses via the command prompt.

- To activate a VMM license, enter **y** at the command prompt and enter the VMM license key in the command line. To skip this step, enter **n** at the command prompt.
- To activate an Application Visibility license, enter **y** at the command prompt and enter the license key in the command line. To skip this step, enter **n** at the command prompt.

  Note: Application Visibility is being introduced with this release as an **early availability feature**. It is available for demonstration purposes only but is not officially supported. Contact the OmniVista Product Line Manager for an Application Visibility Evaluation License. Contact Customer Support for the AOS 7.3.3.R01 and AOS 8.1.1.R01 Builds that support this application.

Configuring OmniVista 2500 Memory

1. When configuring memory settings, begin by selecting the number of devices OmniVista 2500 NMS will manage. To select a range, enter its corresponding number at the command prompt (e.g., enter 2 for Medium). Ranges include:

- Low (fewer than 500 devices)
- Medium (500 to 2,000 devices)
- High (2,000 to 5,000 devices)

```
================================================================================
Configuring OV2500 memory...
================================================================================
Number of devices
        [1] Low (lower than 500)
        [2] Medium (500-2000)
        [3] High (2000-5000)
Please choose one: 1

OmniVista 2500 Core Service Memory (Recommended range: 4096MB - 8092MB): 9000
The memory setting specified for OmniVista 2500 Core Service is out of the recom
mended range, do you want to continue? (y/n): y
The total physical memory on the system is less than the memory of OmniVista 250
0 Core Service, do you want to continue? (y/n): y
OmniVista 2500 Client Core Service Memory (Recommended range: 2048MB - 4096MB):
3000

Are you sure to set:
        OmniVista 2500 Core Service Memory: 9000MB
        OmniVista 2500 Client Core Service Memory: 3000MB
(y/n): y_
```

2. Set the Core Service Memory value. The recommended range is 4098MB to 8092MB. Users will be prompted to confirm the memory specified.

> **Note:** If the memory is out of the recommended range, a warning displays. In addition, if the system's total physical memory is less than the amount specified, a warning displays. When a warning message is served, a “Continue?” prompt displays. Enter **y** to continue or **n** to enter a new memory value.

3. Set the Client Core Service Memory value. The recommended range is 2048MB to 4096MB.

4. Confirm the memory specified for both the Core and Client Core Service Memory. Enter **y** to accept the values or **n** to enter new memory values.

Using the VM Appliance Menu

Following memory configuration, an installation summary screen displays, followed by the OmniVista 2500 NMS VM installation diagnostics.

```
********************************************************************************
* Deploying the appliance...please wait                                        *
********************************************************************************
* Product Name: OmniVista 2500 NMS                                             *
* Revision: 4.1.2                                                              *
* Build Number: 10                                                             *
* Build Date: 08/29/2014                                                       *
*                                                                              *
* Server IPv4: 192.168.70.196                                                  *
* Server IPv6: 2001::196                                                       *
*                                                                              *
* HTTP Port: 8071                                                              *
* HTTPS Port: 8072                                                             *
* Data Port: 1127                                                              *
********************************************************************************
Press any key within 12s to continue...
```

Following diagnostics, the Virtual Appliance menu displays. The menu provides the following options:

- 1: Configure the Virtual Appliance
- 2: Run Watchdog CLI command
- 3: Update the Virtual Appliance
- 4: Backup/Restore OmniVista 2500 NMS
- 5: Log out of the Virtual Appliance
- 6: Reboot the Virtual Appliance
- 0: Power off the Virtual Appliance

For information on these menu options, refer to the sections below.

Configuring the Virtual Appliance

The “Configure the Virtual Appliance” selection displays the selections described in the previous sections, with the addition of an option to **Configure the Swap File**. For menu options 1 through 8, refer to the sections above. To configure a Swap file, begin by entering **9** at the command prompt.

Running Watchdog CLI Command

The Watchdog command set is used to start and stop managed services used by OmniVista 2500. To access the Watchdog CLI Command Menu enter **2** at the command prompt. The following prompt displays:

“Please type Watchdog command options and press <Enter>:”

The command prefix is “watchdog-cli.” To display a list of available commands, enter “?” or “Help” at the prompt. Command options include:

- status
- startservice
- stopservice
- shutdown
- help
- ?
- startall
- stopall

For detailed information on using individual commands, use the following syntax: watchdog-cli help –c <command>. For example: *watchdog-cli help –c stopall*

> **Note:** Watchdog CLI command prompt allows one watchdog-related command entry at a time. Following command entry, users must re-enter option **2** at the VA menu to access "Run Watchdog command."

Updating the Virtual Appliance

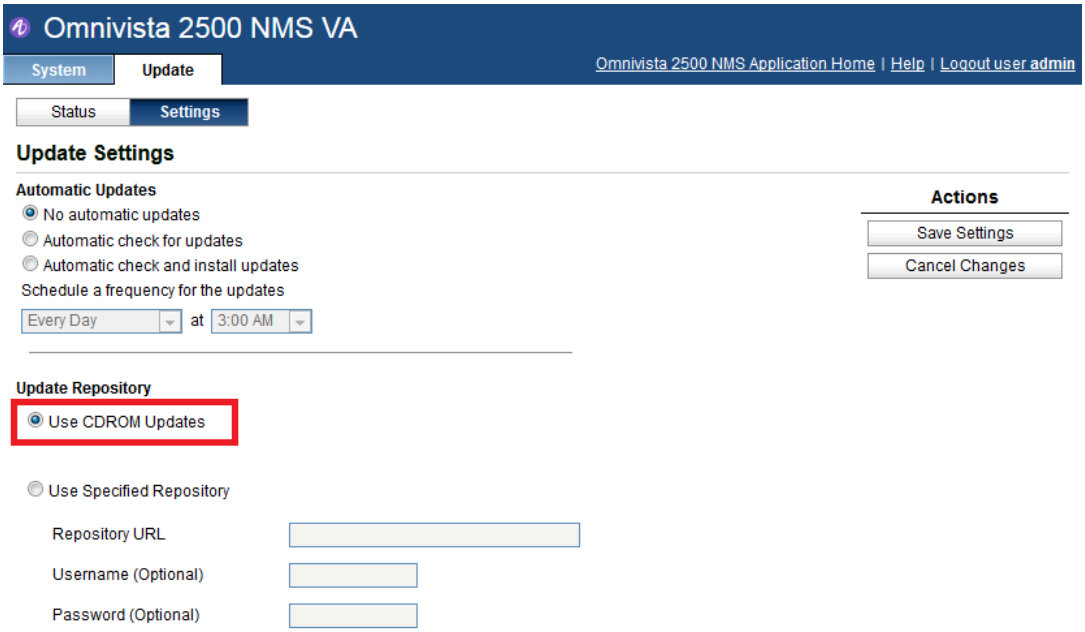
You can update Virtual Appliance to the latest build via CD-ROM or Repository. First, you must configure the update settings (via CD-ROM or Repository), then you perform the update (via GUI or CLI).

Configuring Virtual Appliance Update Settings via CD-ROM

You can configure the Virtual Appliance Settings vie CD-ROM or Repository.

Configuring Virtual Appliance Update Settings via CD-ROM

1. Go to https://<IP_Address_OV_Server>:5480.



2. Go to **Update** > **Settings**.

3. Select **Use CDROM Updates**.

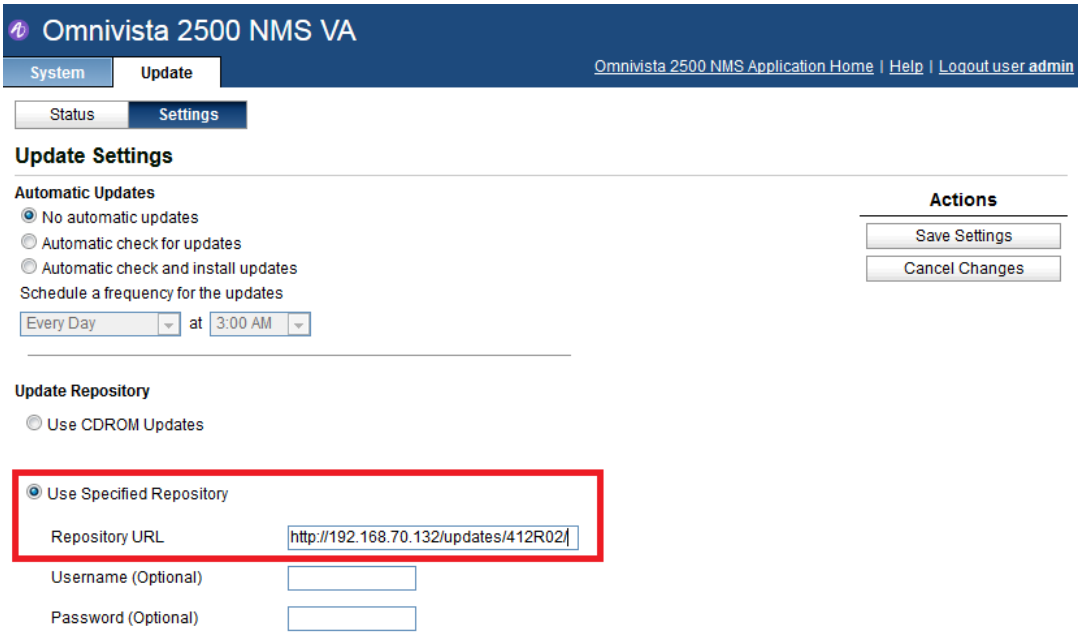
4. Click on the **Save Settings** button.

Configuring Virtual Appliance Update Settings via Repository

1. Go to https://<IP_Address_OV_Server>:5480.

2. Go to **Update** > **Settings**.

3. Select **Use** Specified Repository and input the Repository URL.



4. If required, enter the Username and Password.

5. Click on the **Save Settings** button.

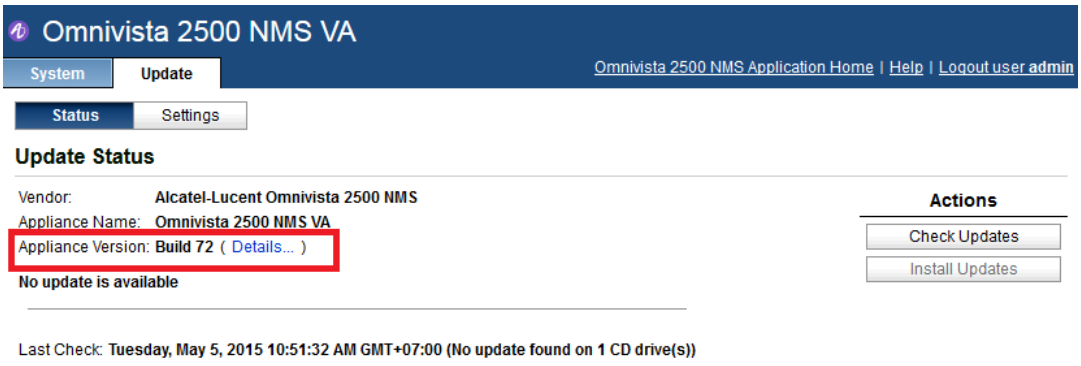
Performing the Update

The update can be performed via GUI or CLI.

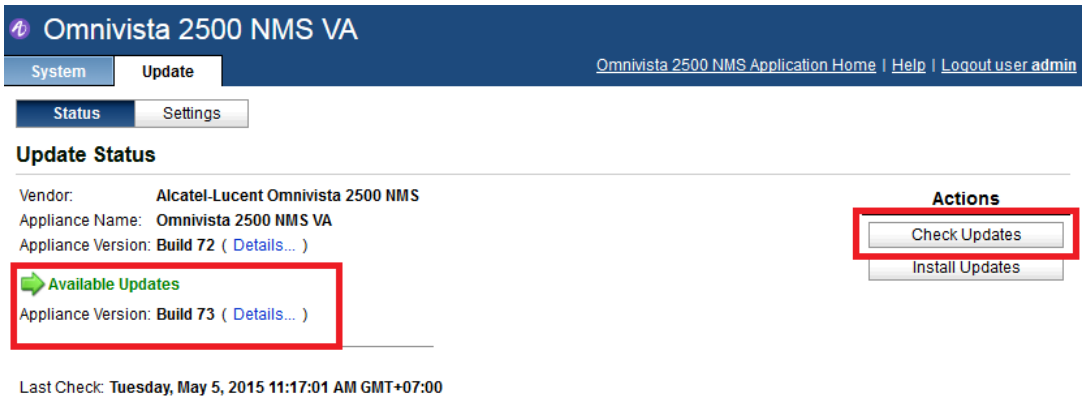
Performing the Update Using the GUI

1. Go to https://<IP_Address_OV_Server>:5480.

2. Go to **Update** > **Status**. In the example below, you can see the current version is “Build 72”



3. Click the **Check Updates** button to get the latest version. In the example below, you can see that the latest update is “Build 73”.



4. Click on the **Install Updates** button to install the latest version.

5. After an "Update Successful" message is displayed, wait until all of the services are started. You can then login to the OmniVista 2500 NMS Web GUI.

Performing the Update Using the CLI

To view information about the current version of the OmniVista VA, and to update the OmniVista VM, enter **3** at the command prompt. Menu options include:

- Option 1: Check current version of VA
- Option 2: Check available updates
- Option 3: Install update. User needs to input version.
- Option 0: Exit menu

```
Type your option? 3

**********************************************************************************************
* Update VA                                                                                  *
**********************************************************************************************
* [1] Check current version                                                                  *
* [2] Check available updates                                                                *
* [3] Install update                                                                         *
* [0] Exit                                                                                   *
**********************************************************************************************
Type your option? _
```

1. Enter "1" to check current version:

```
Type your option? 1

Current version of Virtual Appliance:
Version - Build 72
Description - Enterprise OmniVista 2500 NMS
```

2. Enter "2" to check available updates:

```
Type your option? 2

Available updates of Virtual Appliance:

Checking for available updates, this process can take a few minutes......
Available Updates -
   Build 73
```

3. If the latest update is available, enter “3” to install the latest version:

```
Type your option? 3

Please type version to update and press <Enter>:
latest
Installing version -  Build 73
.............
```

4. After successful message is displayed, wait until all services are started. Then we can login to OmniVista 2500 NMS Web UI.

Backing Up or Restoring OmniVista 2500 NMS

Follow the steps below to backup or restore OmniVista 2500 NMS.

```
*********************************************************************************
* Backup/Restore OmniVista 2500 NMS                                             *
*********************************************************************************
* [1] Backup OmniVista 2500 NMS                                                 *
* [2] Restore OmniVista 2500 NMS                                                *
* [0] Exit                                                                      *
*********************************************************************************
Type your option? 1
```

Option 1: Backup OmniVista 2500 NMS

```
Enter base name (default is "ov2500nms"):
Stopping services...
Backing up data...
Generating backup file...
Starting services...

Finish ov2500nms_2014-09-05--11-03
```

1. Enter the base name of the backup files. If no base name is specified, “ov2500nms” will be used as the default base name.

2. Stop all services.

3. Create the backup files. The backup filename is combination of the base name and time, with the following format <base name>_yyyy-MM-dd--HH-mm. A backup includes OV2500 data backup (.osb), MongoDB data backup (.mgb) and license data backup (.lic).

4. Start all services.

Option 2: Restore OmniVista 2500 NMS

```
Type your option? 2

Backups available:
        [1] ov2500nms_2014-09-05--11-03
Choose a backup file to restore (choose 0 to exit): 1
Are you sure to restore from
        [1] ov2500nms_2014-09-05--11-03
(y/n): y
Stopping services...
Extracting backup file...
Restoring data...
Do you want to restore license information? (y/n): y
Restoring license...
Starting services...
Finish ov2500nms_2014-09-05--11-03
```

1. Enter "Backups available" to display the list of available backups.

2. Enter the backup number (choose 0 to exit).

3. Enter **y** to confirm the restore.

4. Enter **y** to confirm the license information restore.

5. Start all services.

If OV2500 data backup (.osb) or MongoDB data backup (.mgb) is missed, a warning will be shown and you will have to confirm one more time.

Note that you can access the VA via FTP for copying backup files from/to the VA:

- FTP User: admin
- FTP Password: admin
- FTP Port: 8888

  Note: Includes data from OmniVista and mongodb servers.

Logging Out Of the Virtual Appliance

To log out of the VM and return to the admin login prompt, enter **5** at the command line. Confirm logout by entering **y**. Note that OmniVista functions continue following logout.

Rebooting the Virtual Appliance

To reboot the VM, enter **6** at the command line. Confirm reboot by entering **y**. The reboot may take several minutes to complete. When rebooted, you will be prompted to log in through the admin user and password prompts. Note that OmniVista functions continue following reboot.

Powering Off the Virtual Appliance

To power off the VM, enter 0 at the command line. Confirm power off by entering y. The power off may take several minutes to complete.

Note: OmniVista functions stop running following power off. The VM must be powered back on via the VMware client software and you must log back into the VM via the console.