



## Acknowledgments

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## Getting the most from this Release Note

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# VST-VRT Software Version 3.12.1

Product family supported by this version:  
AT-VST-VRT Vista Manager Virtual

## Introduction

The virtual machine version of Vista Manager is called Vista Manager Virtual (VST-VRT). VST-VRT includes the tools to simplify and centralize management and security of your network. It provides an integrated graphical view for monitoring and management of wired, wireless and third-party devices. The VST-VRT Web GUI allows you to manage the virtual machine and to set up and access applications that run on it.

This release note describes Vista Manager Virtual running VST-VRT software version 3.12.1 and the new software features in this version.

This version of VST-VRT is supported on the following virtual platforms:

- Windows Server Hyper-V 2019 or 2022
- Hyper-V Server 2019
- VMWare vSphere Hypervisor (ESXi) 7.0, 8.0
- Nutanix AHV 6.5

The VST-VRT upgrade is packaged as a file image in two file formats, ISO file (.iso) and VHD file (.vhd). When upgrading, use the installation method and file format that match your virtualization environment and method.

The upgrade files are available from [Allied Telesis Support Portal](#). The files are named **VST\_VRT-3.12.1.iso** and **VST\_VRT-3.12.1.vhd**.

For full system requirements for VST-VRT see the [Vista Manager EX datasheet](#).

## Application support in VST-VRT 3.12.1

This VST-VRT version includes the following applications and versions: |

SOFTWARE	VERSION
VST-VRT Operating System	1.10.2
Vista Manager	3.14.0
Wireless Controller (AWC)	3.14.0
SNMP-Full	2.13.0
AMF Cloud	5.5.5-0.2
AMF Security	2.6.0
RADgate	1.1.0

## What's New in VST-VRT 3.12.1

This VST-VRT version includes the following support for new application versions, new features and enhancements.

For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

For other technical documents for Vista Manager Virtual (VST-VRT) and its applications, see the [Vista Manager Virtual Technical Document](#) page on our website.

### Upgraded application versions

This VST-VRT version includes the following support for new application versions.

#### Vista Manager

The Vista Manager application was upgraded to version 3.14.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

#### Wireless Controller (AWC)

The Wireless Controller (AWC) application was upgraded to version 3.14.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

#### SNMP

The SNMP (full SNMP) plug-in application was upgraded to 2.13.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

#### AMF Cloud

The AMF Cloud application was upgraded to version 5.5.5-0.2. For release notes and other technical documents for AMF Cloud, see the [Vista Manager Virtual Technical Document](#) page on our website.

#### RADgate

The RADgate plug-in application was upgraded to 1.1.0. For release notes and other technical documents for RADgate, see the [Vista Manager Virtual Technical Document](#) page on our website.

### New virtual platform support

From this version, VST-VRT is supported on these virtual platforms:

- Windows Server Hyper-V 2019 or 2022
- Hyper-V Server 2019
- VMWare vSphere Hypervisor (ESXi) 7.0, 8.0
- Nutanix AHV 6.5

## Important Considerations Before Upgrading

This section describes changes that may affect VST-VRT if you upgrade. Please read it carefully before upgrading.

### Oracle VM Virtual Box is not supported from VST-VRT 3.11.1

From VST-VRT 3.11.1, VST-VRT does not support the following as a virtual platform:

- Oracle VM VirtualBox version 6.1 and version 5.2

## Upgrading VST-VRT

This section describes how to upgrade the VST-VRT software and applications. It describes how to:

- “Back up application data” below
- “Upgrade the VST-VRT operating system and GUI on Hyper-V Server” below
- “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 12
- “Upgrade Wireless Controller (AWC) and SNMP (Full) plug-in applications” on page 15

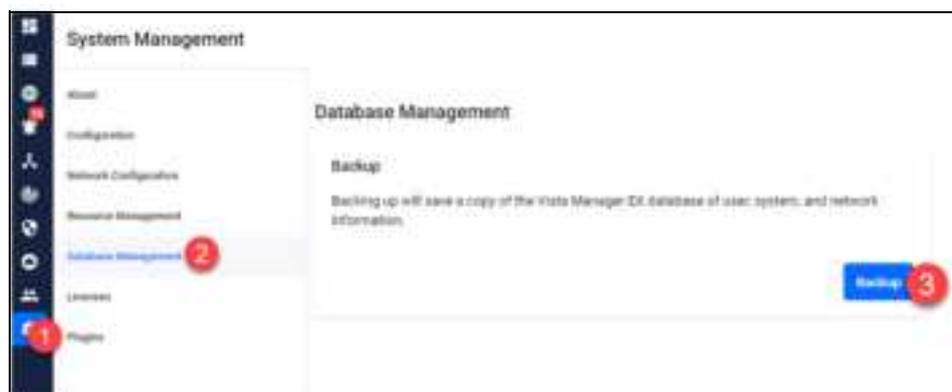
### Back up application data

We recommend backing up application data for all applications regularly. You should also backup all the application data before following this upgrade procedure. See the relevant application’s user manual for information on how to backup an application.

If you are using the **Wireless Controller (AWC)** or the **SNMP (full)** plug-in applications, you must back up these applications before proceeding. This is because the process destroys and recreates the application instance. See [“Upgrade Wireless Controller \(AWC\) and SNMP \(Full\) plug-in applications” on page 15](#) for information on backing up these applications before you continue with following section.

### Backup system data for Vista Manager EX

1. Log into the Vista Manager EX app using an Admin account. You can open it either by clicking **Open** next to it on the VST-VRT Dashboard or by pointing your browser to its IP address.
2. In the Vista Manager EX GUI, navigate to the **System Management** menu item and then to the **Database Management** tab.
3. Click on the **Backup** button in the **Backup** pane.



4. Click **Backup** again to confirm you wish to make a backup. This automatically downloads a **tar** file backup to your default download location. Keep this **tar** file in a safe location.

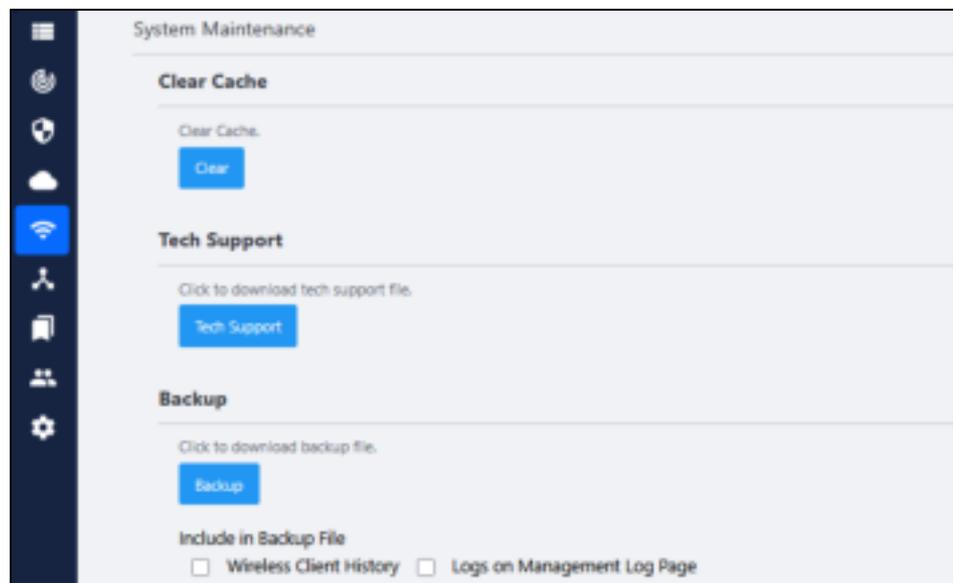
**Note:** Restoring Vista Manager backups from a newer version into an older version is not supported. It is not possible, for example, to restore a backup made in Vista Manager 3.14.0 into a Vista Manager 3.13.0 installation.

## Back up system data for the Wireless Controller (AWC) plug-in application

Before upgrading the Wireless Controller application, you must back up its system data. This is because you have to destroy the application instance to upgrade it.

**Note:** Make sure that directories and filenames used for backup and restoration do not contain any multibyte characters.

1. Log into the Vista Manager EX app using an Admin account.
2. From the AWC Plug-in menu, select **System Setting**. In the **System Information** page, scroll down to the **System Maintenance** section, and in that to the **Backup** section.



3. Optionally, check the **Wireless Client History** and **Logs on Management Log Page** boxes to back up these in addition to other data backup.
4. To start the back-up downloading, click the **Backup** button.
5. From your web browser's dialog box, save the backup file to a safe location.

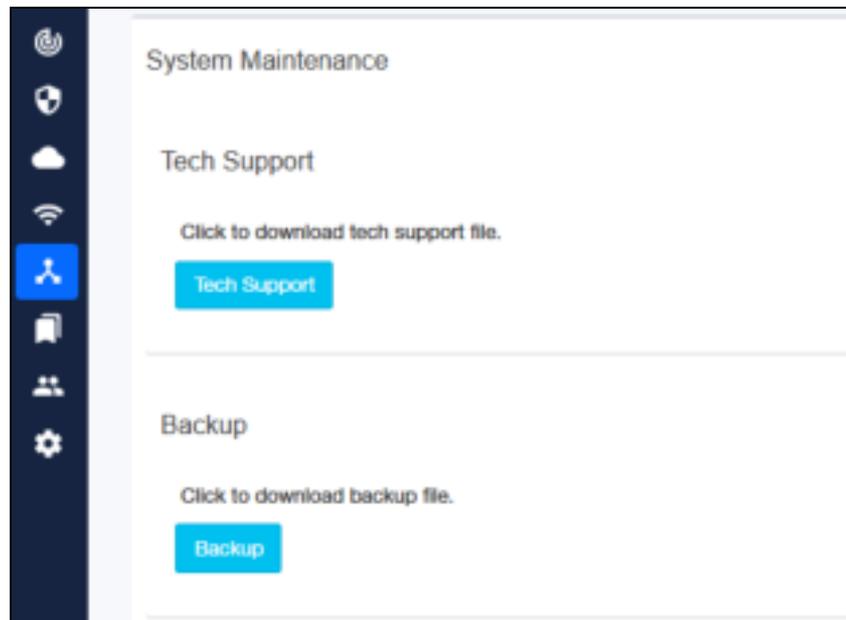
The backup filename will be in the format:  
"config\_atawc-X.X.X\_-YYYYMMDDhhmmss.zip".

## Back up system data for the SNMP plug-in application

Before upgrading the SNMP Full applications, you must back up its system data. This is because you have to destroy the application instance to upgrade it.

**Note:** Make sure that directories and filenames used for backup and restoration do not contain any multibyte characters.

1. Log in to Vista Manager EX using an Admin account.
2. Click the **SNMP Plug-in** icon in the left menu of the Vista Manager application, then click the **Version Information** in the menu.
3. In the System Settings panel, scroll down to the **System Maintenance** panel, and in that to the **Backup** section. Click the **Backup** button. This creates a backup of application data.



4. Save the backup file to a safe location.

## Upgrade the VST-VRT operating system and GUI on Hyper-V Server

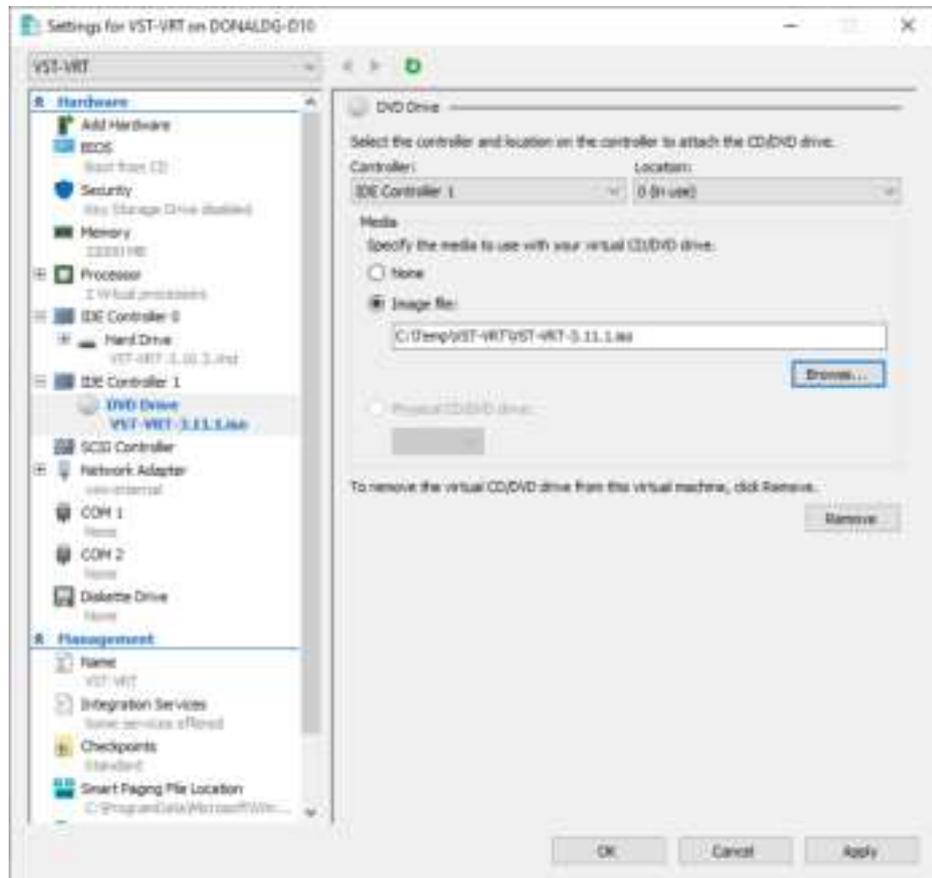
There are two different upgrade methods, depending on how you installed VST-VRT. Follow the appropriate instructions below.

### When installing using the .iso image method

If the product was installed using the .iso image method, the .iso image file is used when updating the firmware. To upgrade the VST-VRT operating system, follow these steps.

1. Get the latest version of the VST-VRT software from the [Allied Telesis Support Portal](#). This will have a filename like VST\_VRT-x.x.x.iso, where x.x.x is the version. Download it to a directory that is visible to your VST-VRT virtual machine.
2. If you want to retain the current unsaved configuration of VST-VRT, login to the VST-VRT GUI and click the **Save** button on the top right of the page. This stores the current state of the applications. The upgrade process will reboot the VST-VRT.
3. If the virtual machine is running, stop the machine. To stop the machine, right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Shut Down from the context menu.

4. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Settings from the context menu.
5. Select Hardware > IDE Controller 1 > DVD Drive on the left pane, then specify the new .iso image file in the Image file field. Click OK.



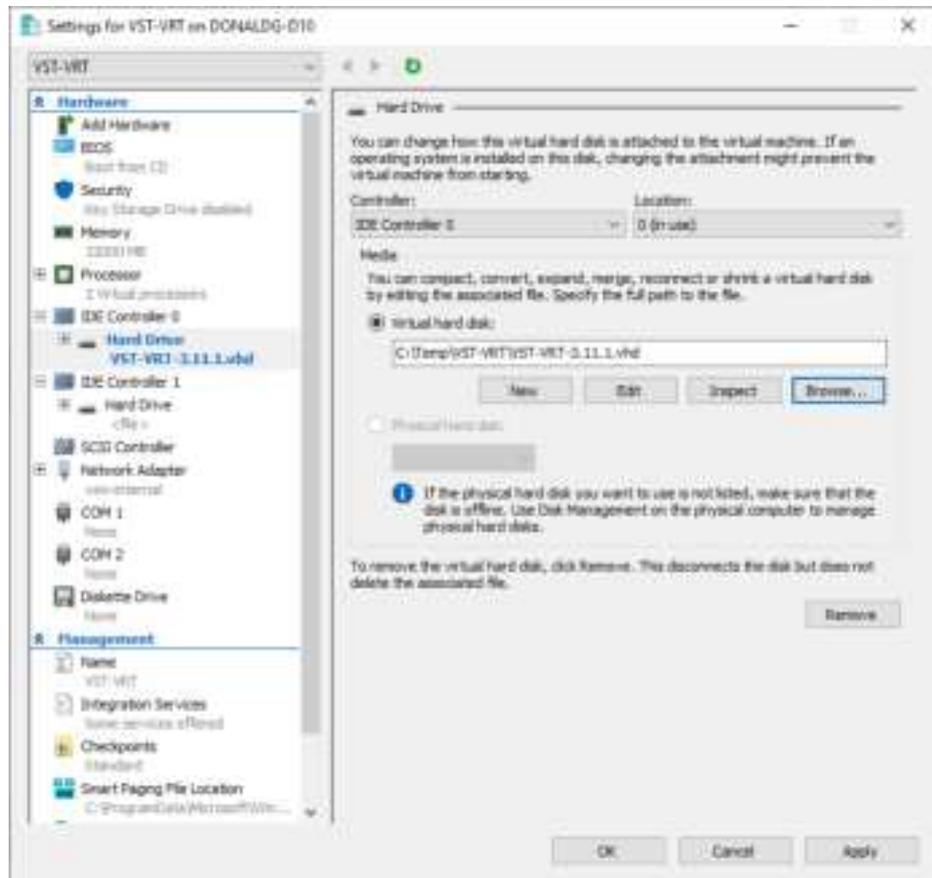
6. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Start from the context menu.
7. The product will start with the new version. This completes updating the firmware of this product using the ISO image method.

## When installing using the .vhd image method

If the product was installed using the .vhd image method, the .vhd image file is used when updating the firmware. To upgrade the VST-VRT operating system, follow these steps.

1. Get the latest version of the VST-VRT software from the [Allied Telesis Support Portal](#). This will have a filename like VST\_VRT-x.x.x.iso, where x.x.x is the version. Download it to a directory that is visible to your VST-VRT virtual machine.
2. If you want to retain the current unsaved configuration of VST-VRT, login to the VST-VRT GUI and click the **Save** button on the top right of the page. This stores the current state of the applications. The upgrade process will reboot the VST-VRT.
3. If the virtual machine is running, stop the machine. To stop the machine, right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Shut Down from the context menu.

4. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Settings from the context menu.
5. Select Hardware > IDE Controller 0 > Hard Drive on the left pane, then specify the new .vhd file in the Virtual hard disk field. Click OK.



6. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Start from the context menu.
7. The product will start with the new version. This completes updating the firmware of this product using the .vhd image method.

## Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications

You can upgrade these applications as a bundle. This ensures they are compatible with each other and with the operating system version.

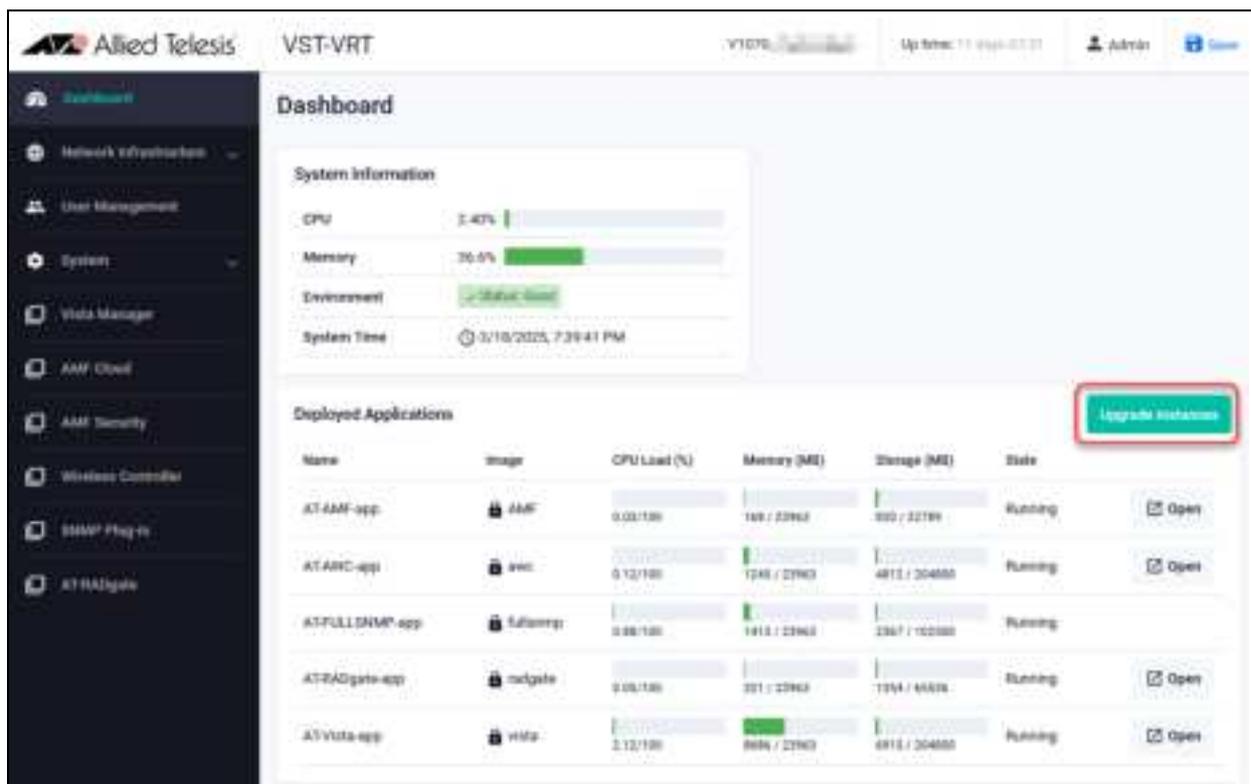
Before upgrading these applications:

- We recommend backing up application data for all applications regularly, and before upgrading the applications.
- [“Upgrade the VST-VRT operating system and GUI on Hyper-V Server” on page 9](#)

Use the procedure in this section to dynamically upgrade these applications:

- Vista Manager
- AMF Cloud
- AMF Security
- AT-RADgate

1. In the VST-VRT **Dashboard** page, click the **Upgrade Instances** button.



The screenshot shows the VST-VRT Dashboard interface. On the left is a navigation sidebar with options like Dashboard, Network Infrastructure, User Management, System, Vista Manager, AMF Cloud, AMF Security, Wireless Controller, SNMP Plugins, and AT-RADgate. The main content area is titled 'Dashboard' and includes a 'System Information' section with metrics for CPU (3.40%), Memory (26.5%), Environment (Stable), and System Time (3/18/2025, 7:39:41 PM). Below this is a 'Deployed Applications' table with columns for Name, Image, CPU Load (%), Memory (MB), Storage (MB), and State. A green 'Upgrade Instances' button is highlighted with a red box in the top right corner of the table area.

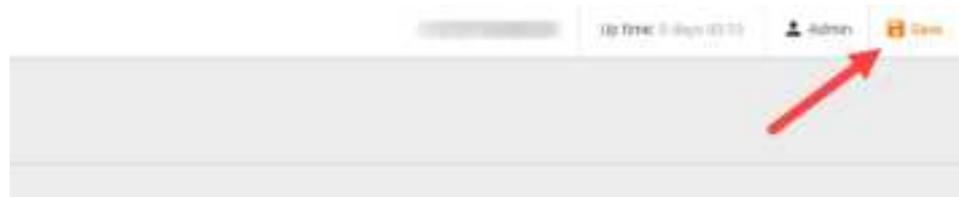
Name	Image	CPU Load (%)	Memory (MB)	Storage (MB)	State
AT-AMF-app	AMF	0.03/100	169 / 22963	320 / 22769	Running
AT-ARC-app	arc	0.12/100	1248 / 22963	4812 / 204650	Running
AT-FULLDMP-app	FullDMP	0.08/100	1412 / 22963	2367 / 102360	Running
AT-RADgate-app	radgate	0.05/100	221 / 22963	1294 / 64328	Running
AT-Vista-app	Vista	2.12/100	8694 / 22963	6812 / 204650	Running

- Make sure the correct version of the bundle file is displayed in the **Upgrade to** field at the top left of the upgrade instances panel. If not, use the drop down list to select the correct version.

Applications that can be upgraded are shown as selected. We recommend upgrading them all.



- Click the **Upgrade Selected** button and wait till upgrade is complete. The **Status** column shows progress. They first stop, then change to the new version, then start.
- It is important to save the state of the VST-VRT operating system after the upgrade. The **Save** button in the top right corner of the screen is orange when there are unsaved changes. Click on the button to save the changes.

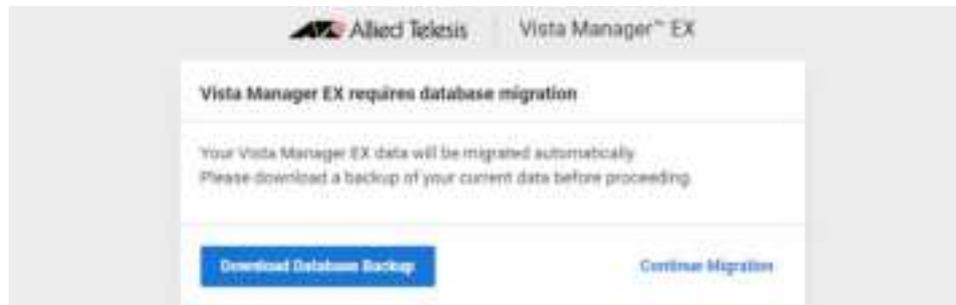


If you do not save and VST-VRT is rebooted, the upgraded applications will revert to the old app images and fail to start. You will see 'configured image "<image-name>" doesn't exist' messages if this happens.

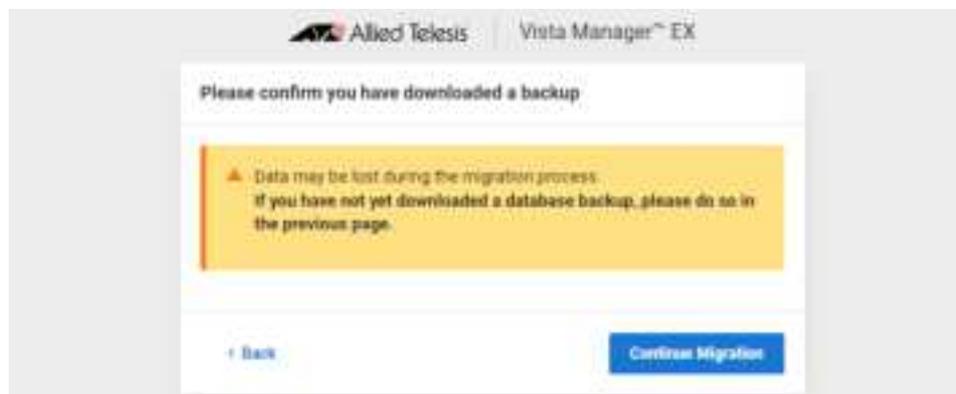
- In the VST-VRT GUI **Dashboard** page, open Vista Manager by clicking the **Open** button next to AT-Vista-app.

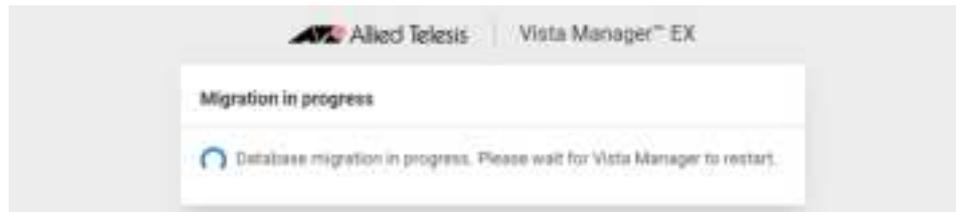


- Vista Manager EX may prompt you to migrate the database. Select **Download Database Backup** to make a backup.



- Confirm you have successfully downloaded a backup file, then select **Continue Migration**. If you get a browser error about the page becoming unreachable, then refresh your browser.





8. Once the migration has completed, your connection may be lost. If this happens, close your browser and reopen the application from the VST-VRT dashboard.

## Upgrade Wireless Controller (AWC) and SNMP (Full) plug-in applications

Use this manual procedure to upgrade the following applications by destroying the old and creating new instances.

- Wireless Controller (AWC)
- SNMP (Full)

Before upgrading these applications,

- [“Back up application data” on page 7](#)
- [“Upgrade the VST-VRT operating system and GUI on Hyper-V Server” on page 9.](#)

For AWC and SNMP (full) applications, you **cannot**:

- upgrade these as part of a set
- use the upgrade procedure from versions earlier than VST-VRT 3.4.1.
- use the Upgrade button in the VST-VRT GUI to upgrade.

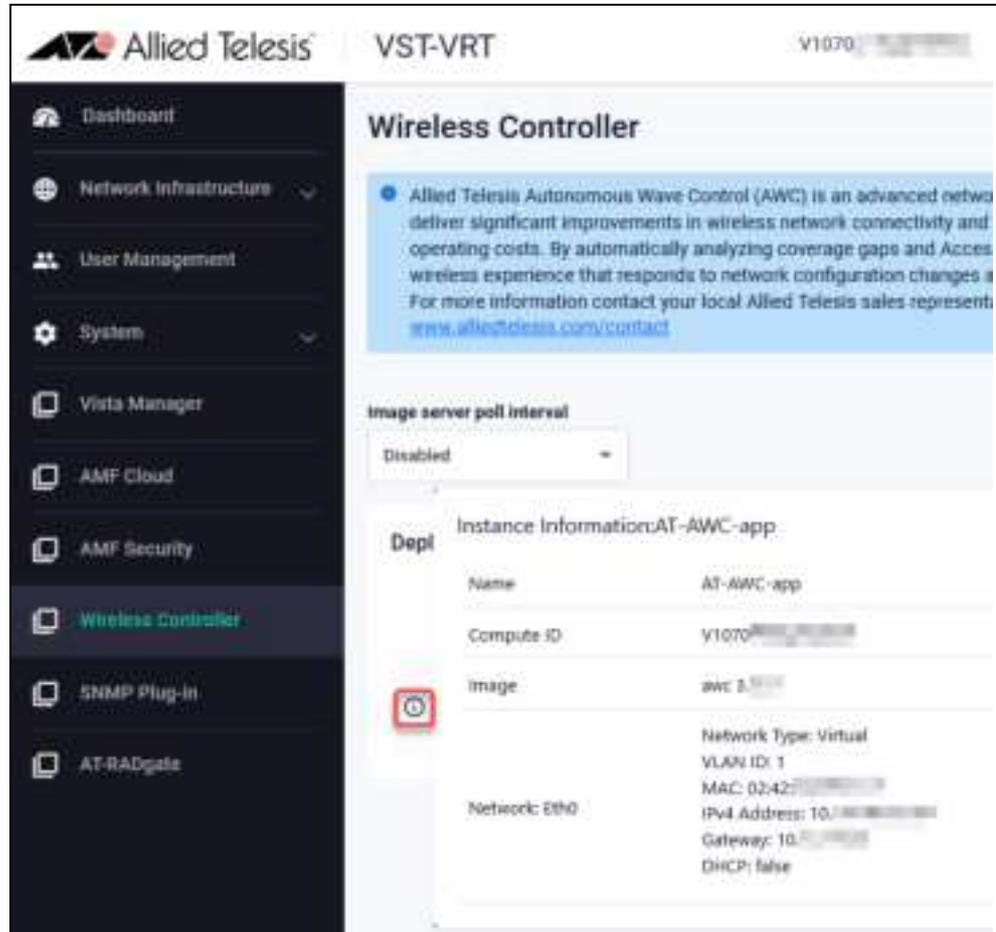
Instead, use these procedures:

- [“Destroy and recreate the application instances” on page 16](#)
- [“Re-register plug-ins in Vista Manager” on page 18](#)
- [“Restore application data from back-up” on page 21.](#)

## Destroy and recreate the application instances

In the VST-VRT GUI, follow these steps.

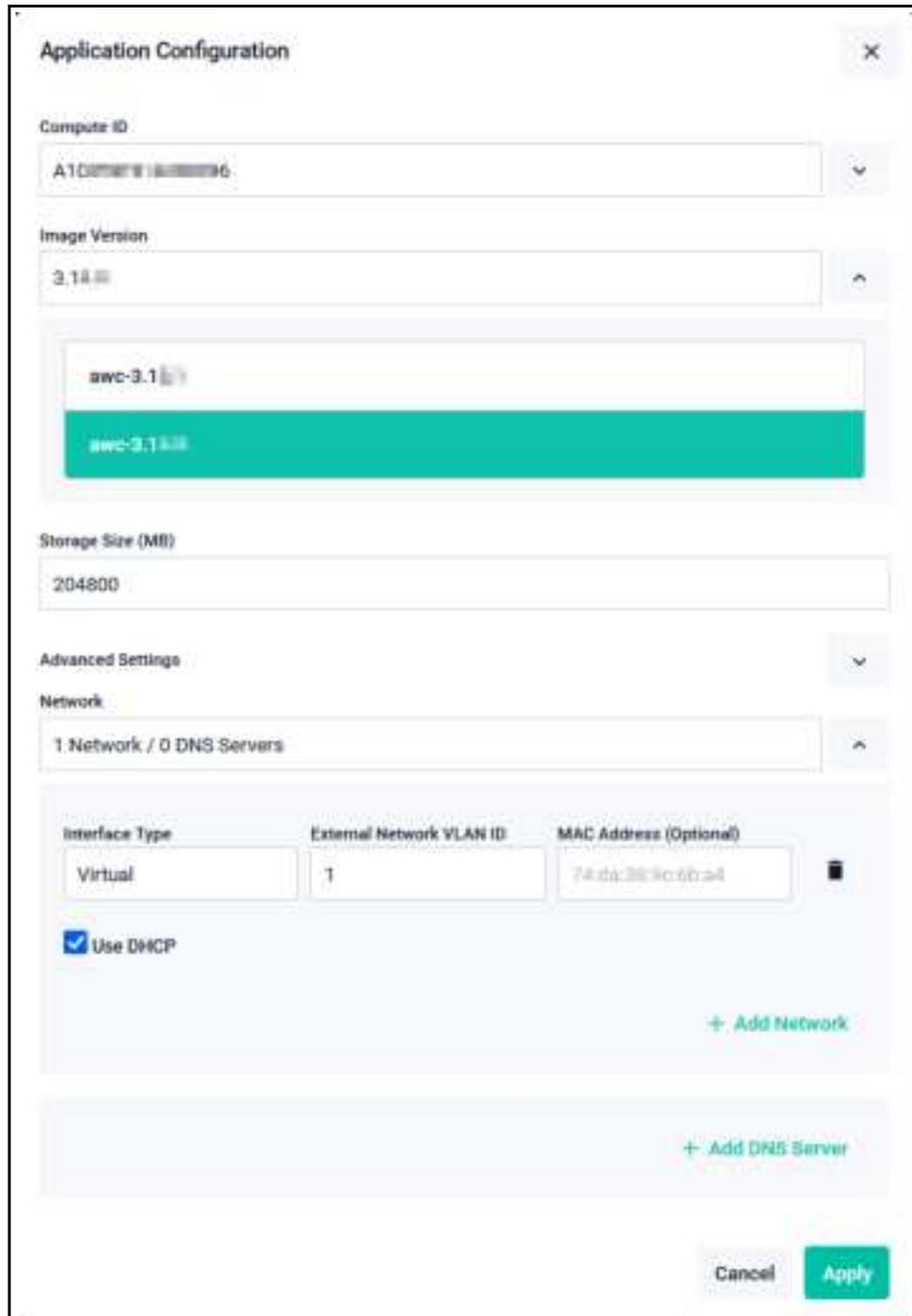
1. In the application page for each application, hover over the Instance Information icon (i) and copy all the Network settings (Network Type, etc) into a text file on your computer. You will need to re-input this information at a later step.



2. In the application page, stop the application by clicking the **Stop** button.
3. Destroy the application by clicking the **Destroy** button.
4. Click the **Configure** button.
5. Add an interface to connect the application to your network. Expand the Network section. Either select DHCP or add a static IP address and gateway address, and add a DNS server if needed.

- In the **Application Configuration** dialog box, fill in the storage and prerecorded network data. The recommended storage values are:

AWC: 204 800 MB  
 SNMP Full: 102 400 MB



**Application Configuration**

Compute ID  
 A10main-1000006

Image Version  
 3.14

awc-3.14  
 awc-3.14

Storage Size (MB)  
 204800

Advanced Settings

Network  
 1 Network / 0 DNS Servers

Interface Type	External Network VLAN ID	MAC Address (Optional)
Virtual	1	74-d4-38-9c-0b-c4

Use DHCP

+ Add Network

+ Add DNS Server

Cancel Apply

- Click the **Apply** button. This creates a new version of the application instance. Wait a few minutes for this to start and for the **Open** button to appear.

- It is important to save the state of the VST-VRT operating system after the upgrade. The **Save** button in the top right corner of the screen is orange when there are unsaved changes. Click on the button to save the changes.



- From the VST-VRT menu, navigate to the **Vista Manager** page and click the **Open** button. If necessary, wait for Vista Manager EX to perform its initial set up.
- Log in to Vista Manager EX.

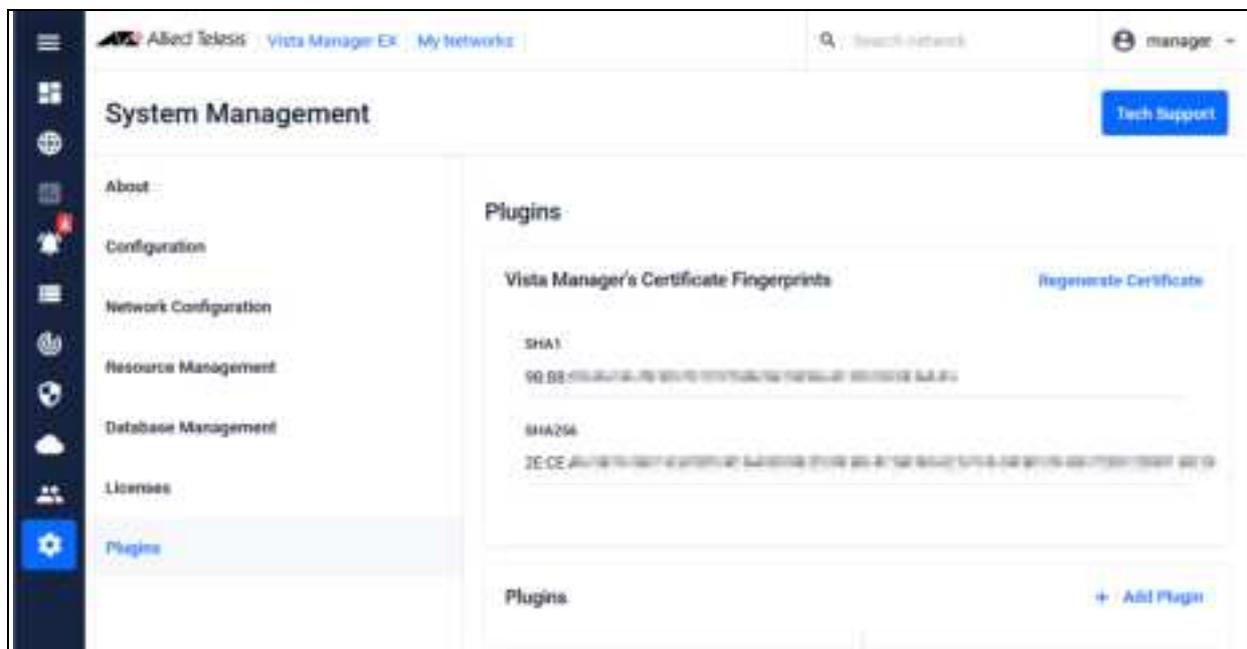
## Re-register plug-ins in Vista Manager

If you are using these plug-ins in Vista Manager EX, you will need to reregister them:

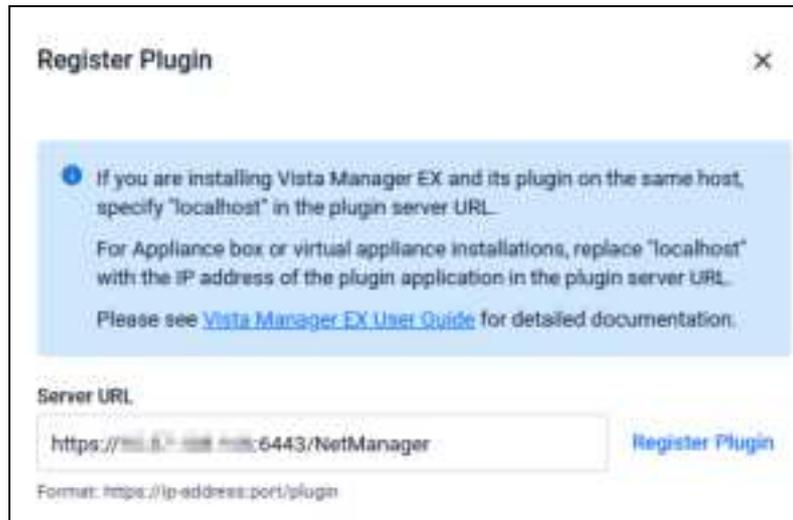
- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plug-ins.

- On the Vista Manager EX page, navigate to **System Management > Plugins**.



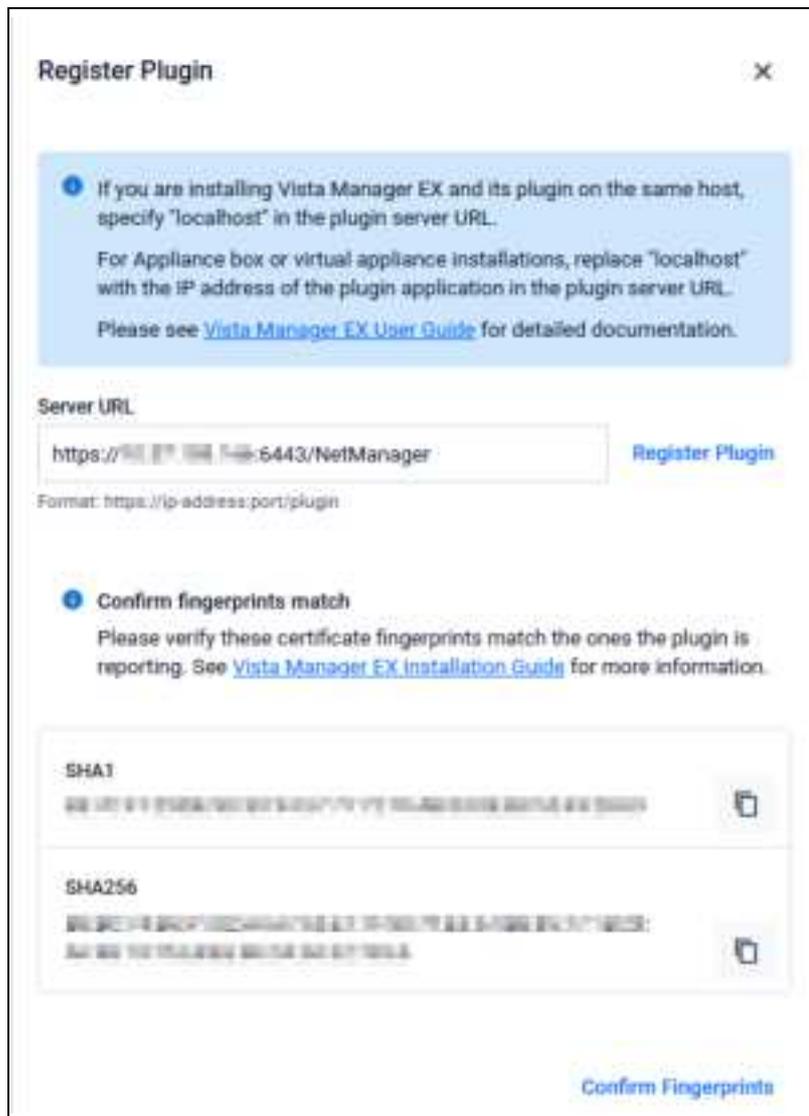
12. Click **+Add Plugin**.



13. Enter the server URL. This includes the IP address of the plugin application.

- For the SNMP (Full) plugin, this is  
`<ip-address>:6443/NetManager`
- For the Wireless Controller (AWC) plugin, this is  
`<ip-address>:5443/wireless_plugin`

Click **Register Plugin**.



14. Check that the certificate fingerprints match the ones reported in the plugin. Click **Confirm Fingerprints**. A 'Plug-in updated' pop-up message confirms that the plugin has been updated.

Next, restore system data for the plug-in application from the back-up file.

## Restore application data from back-up

For the Wireless Controller and SNMP (Full) applications, you must use the following procedures to restore the system data:

- “Restore system data for the Wireless Controller plug-in” below
- “Restore system data for the SNMP plug-in” on page 22

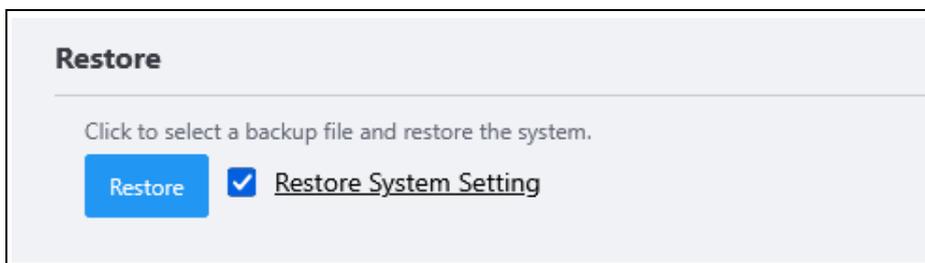
Note that:

- Restoring a backup file made on another platform is not supported.
- For the applications upgraded as a set in this procedure “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 12, the data is restored automatically.

### Restore system data for the Wireless Controller plug-in

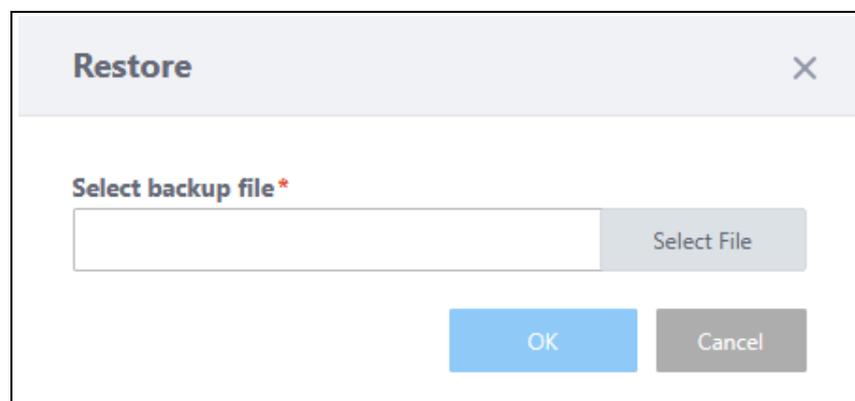
To restore data from the back-up file for the Wireless Controller (AWC) plug-in application, follow these steps:

1. Log in to Vista Manager EX using an Admin account.
2. In the Vista Manager EX menu, navigate to **AWC Plug-in > System Setting** page.
3. Scroll down to the **System Maintenance** section, and in that section, scroll down to the **Restore** section.



Hover over **Restore System Setting** to see the system settings that will be restored. Check the box and click the **Restore** button.

4. In the Restore dialog box, click **Select File** and select the backup file.



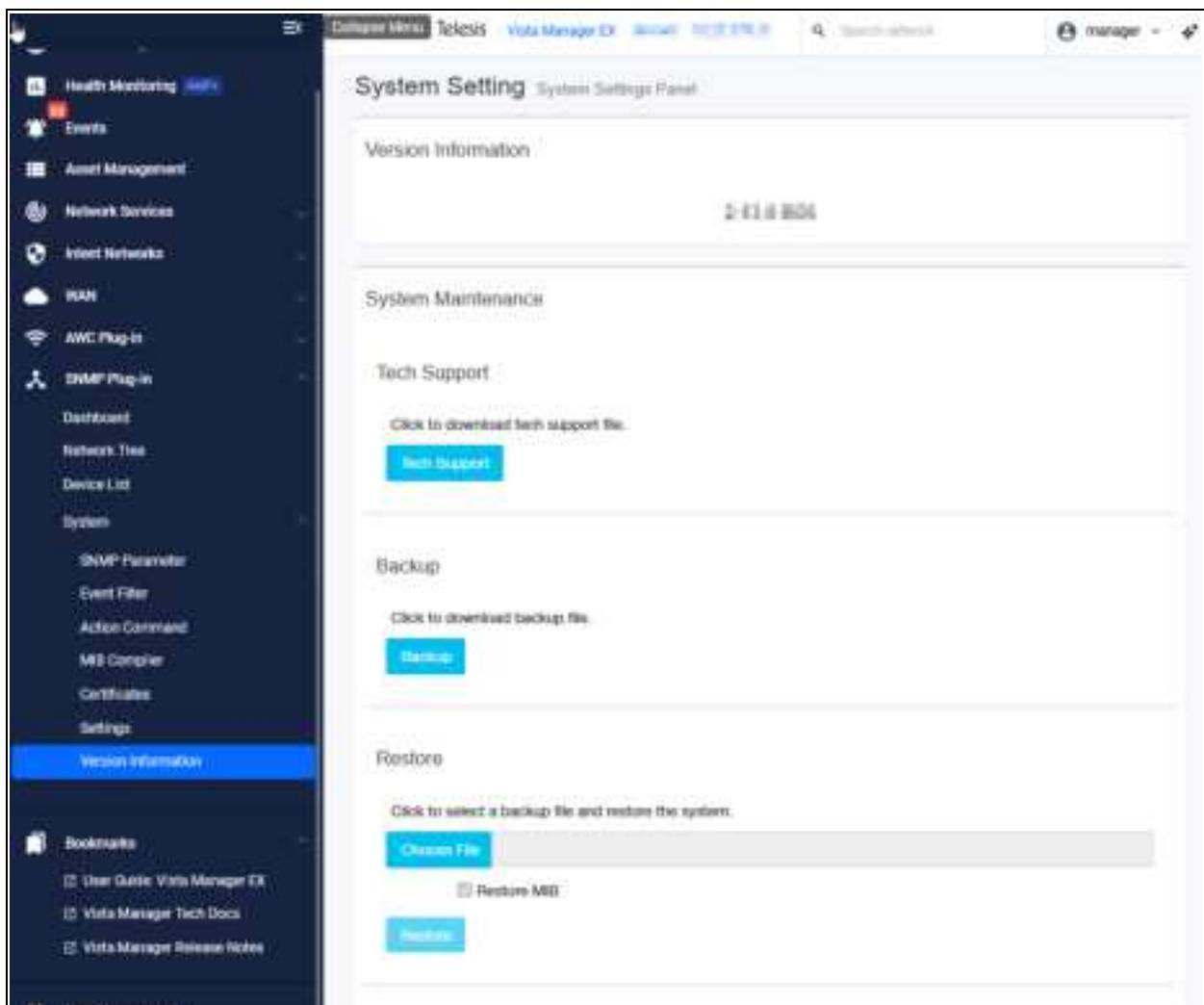
5. Click **OK**. Confirm.

- After it has finished restoring, a dialog box shows that restoration is complete. Click **OK**.

## Restore system data for the SNMP plug-in

To restore data from the backup of application data for the SNMP plug-in application, follow these steps.

- Log in to Vista Manager EX using an Admin account.
- In the left menu of Vista Manager EX, click the **SNMP plug-in** icon, then click **Version Information**.
- In the **System Setting** panel, scroll down to the **System Maintenance** panel and in that, to the **Restore** panel.



- Select the file to restore from and click the **Restore** button. This restores the data from the back-up for the SNMP plug-in application.

## Remove obsolete files from memory

You can make more space available by removing obsolete files. Keep the current versions.

1. From the VST-VRT dashboard, navigate to the **System > File Management** page.
2. Click the **Delete** button to the right of the obsolete files you want to remove.