

## AT-VST-VRT Vista Manager Virtual 3.15.x

- VST-VRT 3.15.2

## Acknowledgments

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## Important Considerations Before Upgrading

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

### Virtual platforms not supported from these versions

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

- Oracle VM VirtualBox is not supported from VST-VRT 3.11.1
- Nutanix AHV is not supported from VST-VRT 3.14.1

## VST-VRT Software Version 3.15.2

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 (VST-VRT) application software version 3.15.2 and the new features in this version.

VST-VRT 3.15.2 is supported on the following virtual platforms:

- Windows Server Hyper-V 2019, 2022, 2025
- Hyper-V Server 2019
- VMWare vSphere Hypervisor (ESXi) 7.0, 8.0
- Proxmox VE 9.1

The VST-VRT upgrade is packaged as file images in two formats: ISO (.iso) and VHD (.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-3.15.2.iso** and **VST\_VRT-3.15.2.vhd**.

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

### Application support in VST-VRT 3.15.2

VST-VRT is a collection of an OS and a number of applications. This VST-VRT collection has its own version number: 3.15.2. The OS and applications each have independent version numbers.

This table lists the individual component versions included in this VST-VRT release:

ITEM	VERSION
VST-VRT collection	3.15.2
VST-VRT Operating System	1.14.2
Vista Manager	3.17.1
Wireless Controller (AWC)	3.17.0
SNMP-Full	2.15.0
AMF Cloud	5.5.6-0.1
AMF Security	2.7.0
RADgate	1.3.0
AWC Sky Defender (AWC-SDF)	1.1.1

## What's New in VST-VRT 3.15.2

This VST-VRT version introduces updated application versions, new features, and enhancements.

- [“Upgraded application versions” on page 6](#)
- [“Support for virtualization on Proxmox VE 9.1” on page 7](#)
- [“AI Network Assistant in Vista Manager helps firmware upgrades” on page 7](#)

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

### Upgraded application versions

This VST-VRT release supports the following upgraded application versions.

#### Vista Manager

This release upgrades the Vista Manager application to version 3.17.1. 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)

This release upgrades the Wireless Controller (AWC) application to version 3.17.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website. For information about using AWC, see the [User Guide for the Autonomous Wave Control \(AWC\) plugin](#).

#### SNMP

This release upgrades the SNMP (full SNMP) plugin application to 2.15.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website. For information about using SNMP, see the [User Guide: SNMP Plug-in](#).

#### AMF Cloud

This release upgrades the AMF Cloud application to version 5.5.6-0.1. For release notes for AMF Cloud, see the [Release Notes for AlliedWare Plus™ Version 5.5.6-x.x](#) page on our website. For information about using AMF Cloud, see the [AMF Feature Overview and Configuration Guide](#) page on our website.

#### AMF Security (AMF-Sec)

This release upgrades the AMF Security application to 2.7.0. For information about using AMF-Sec, see the [User Guide for AMF Security](#).

#### RADgate

This release upgrades the RADgate plugin application to 1.3.0. For information about using RADgate, see the [User Guide: AT-RADGate](#) page on our website.

## Sky Defender (AWC-SDF)

This release upgrades the Sky Defender plugin application to 1.1.1. For more information about Sky Defender, see the [User Guide for the Autonomous Wave Control \(AWC\) plugin](#).

## Support for virtualization on Proxmox VE 9.1

This version adds support for running VST-VRT on the Proxmox VE 9.1 virtualization platform.

For information about deploying VST-VRT on Proxmox VE, see the [User Guide for Vista Manager Virtual \(VST-VRT\)](#).

## AI Network Assistant in Vista Manager helps firmware upgrades

From Vista Manager EX 3.17.1, supported by VST-VRT 3.15.2, you can use the built-in AI Network Assistant to help perform firmware upgrades for AlliedWare Plus devices in an AMF area.

The system always asks you to confirm before the AI assistant executes firmware upgrades.

You can ask the AI assistant to upgrade firmware on devices from upgrade files stored on an area's AMF Master.

You can also use natural language to ask the AI assistant questions about your network, for example:

- about the firmware and versions on your devices
- about which firmware files are stored on the area master that you can use for firmware upgrade.

This feature requires a license; contact your Allied Telesis representative.

For more information about the AI Network Assistant, see the [Vista Manager EX Release Notes](#) and the [User Guide for Vista Manager EX](#).

## 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 the VST-VRT operating system and GUI on VMware VSphere ESXi” on page 13
- “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 15
- “Upgrade Wireless Controller (AWC) and SNMP (Full) plugin applications” on page 18

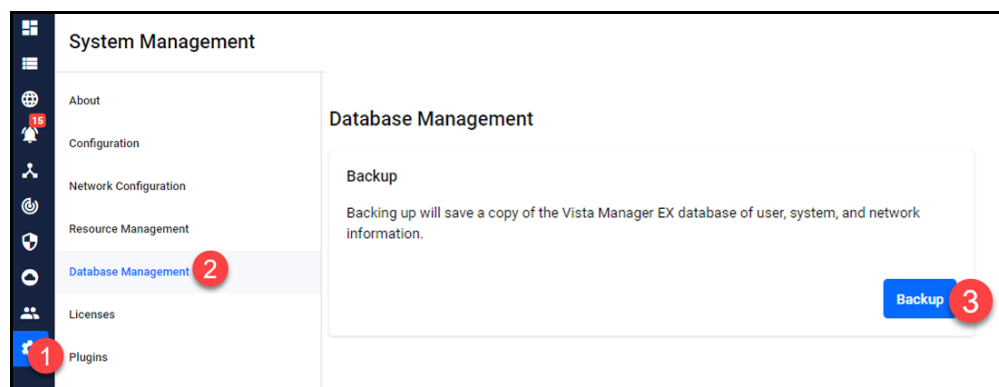
## Back up application data

We recommend backing up application data for all applications regularly. You should also back up 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)** plugin 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 \(Full\) plugin applications” on page 18](#) for information on backing up these applications before you continue with the 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.

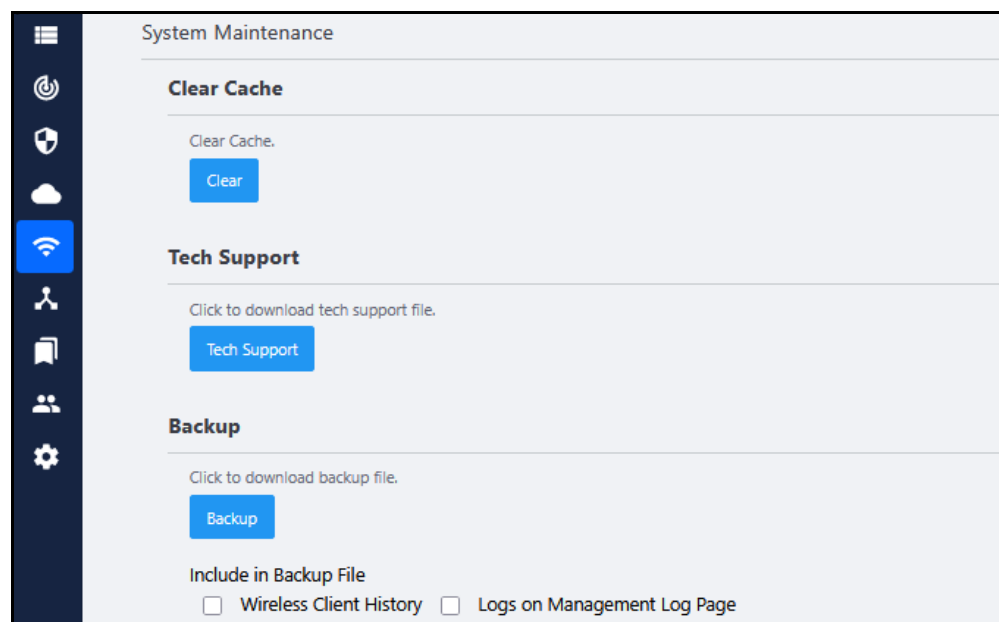
**Note:** Restoring Vista Manager backups from a newer version into an older version is not supported. It is not possible, for example, to restore a backup made in Vista Manager 3.14.0 into a Vista Manager 3.13.0 installation.

## 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 plugin 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 downloading the backup, click the **Backup** button.
5. From your web browser's dialog box, save the backup file to a safe location.

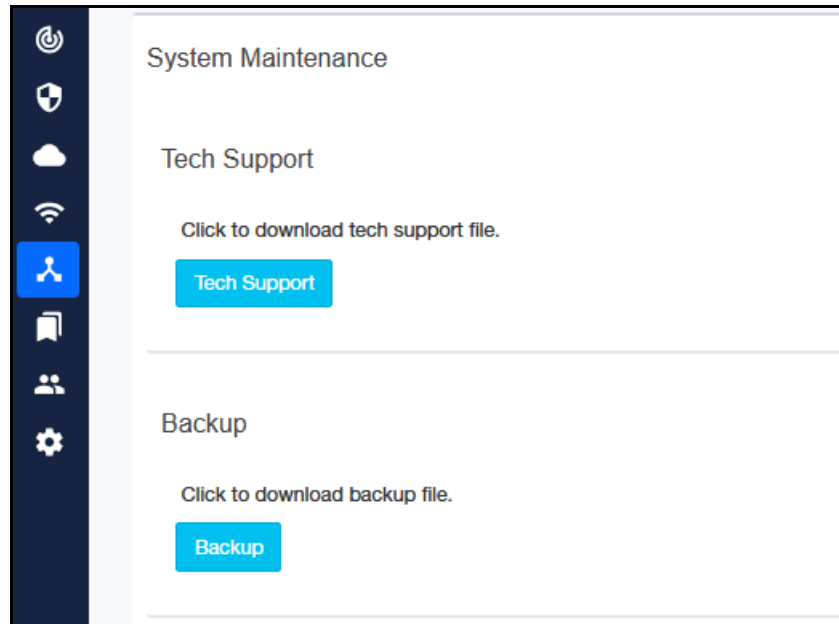
The backup filename will be in the format:  
"config\_atawc-X.X.X\_YYYYMMDDhhmmss.zip".

## Back up system data for the SNMP plugin application

Before upgrading the SNMP Full 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 in to Vista Manager EX using an Admin account.
2. Click the **SNMP plugin** 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

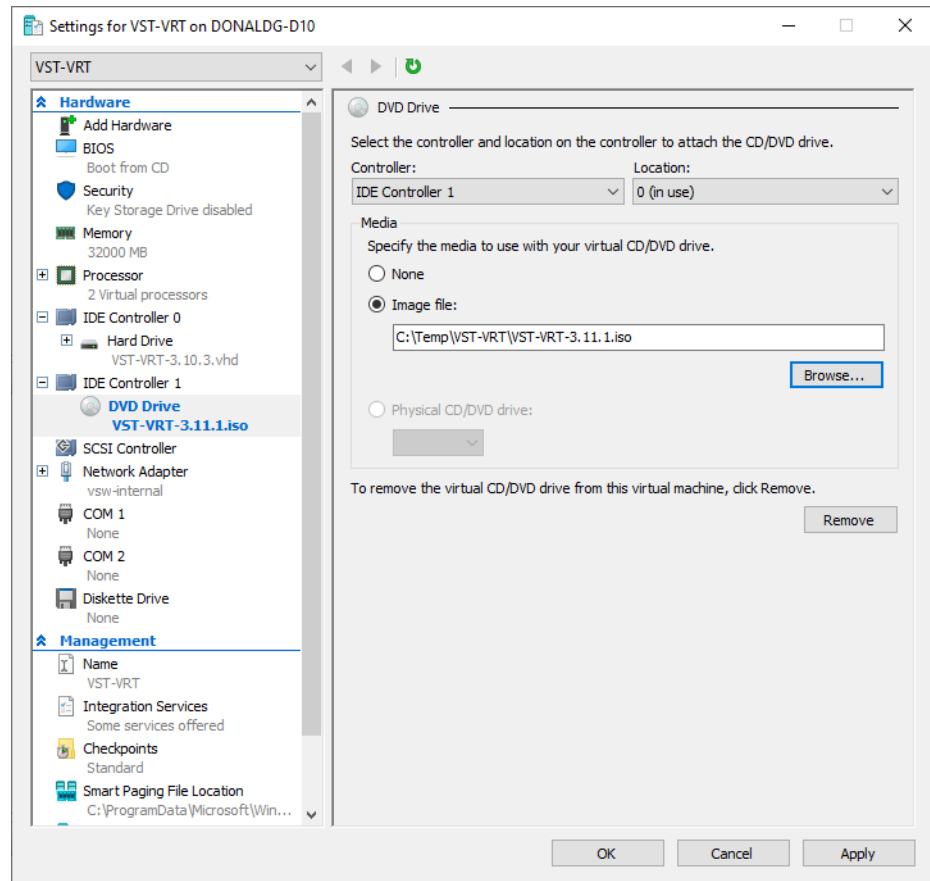
There are two different upgrade methods, depending on how you installed VST-VRT. Follow the appropriate instructions below.

### 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 VST-VRT operating system. 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.



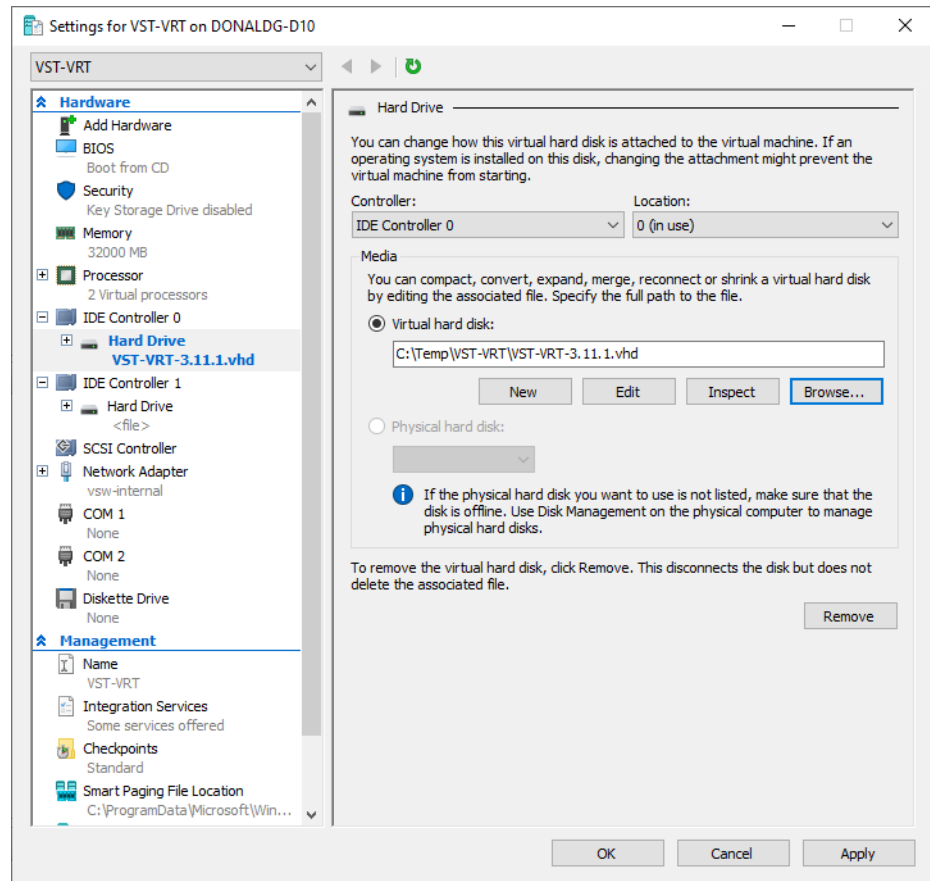
6. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Start from the context menu.
7. The product will start with the new version. This completes updating the firmware of this product using the ISO image method.

## 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.vhd, 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.

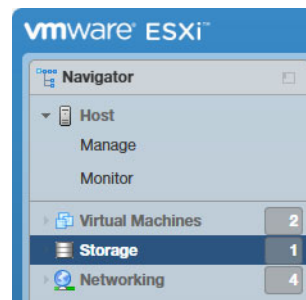


6. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Start from the context menu.
7. The product will start with the new version. This completes updating the firmware of this product using the .vhd image method.

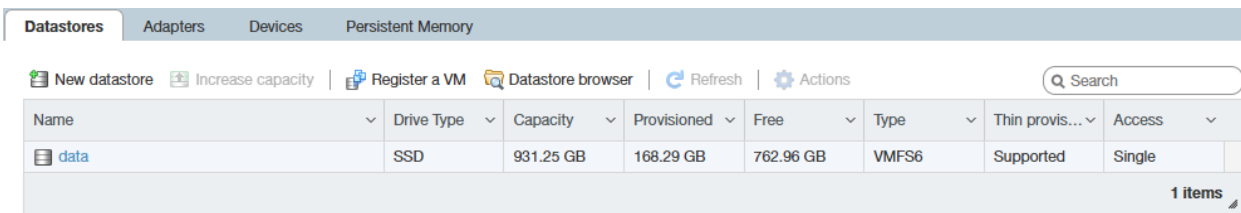
# Upgrade the VST-VRT operating system and GUI on VMware VSphere ESXi

To upgrade or downgrade the VST-VRT operating system of the virtual machine, use the following steps:

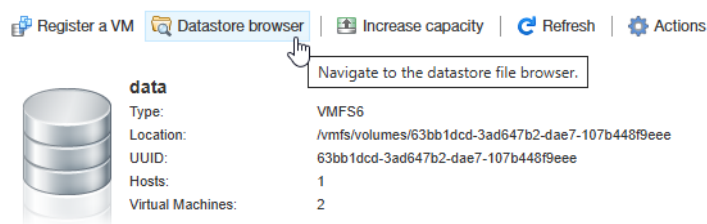
1. Enter the IP address of the VMware ESXi server in the web browser, and enter the user name and password on the login screen to log in.
2. Select **Storage** from the menu on the left side of the management screen.



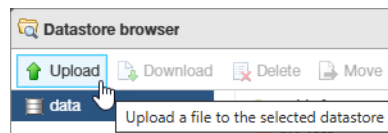
3. Select the datastore you want to upload the VST-VRT .iso image file to from the displayed datastores.



4. Select **Datastore Browser**.



5. Click the **Upload** button.

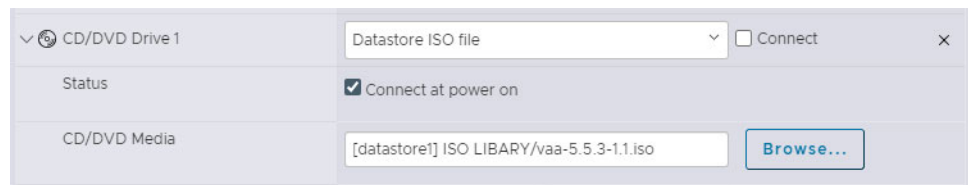


6. Select the .iso image file of VST-VRT to be uploaded on the local side, and save the .iso image in the datastore.
7. If the virtual machine is running, stop the virtual machine.

- From the VM menu, click on your virtual machine.
- Click on Edit from the top menu.



- Click the arrow to the left of CD/DVD Drive 1 to expand it. Click Browse to select the new .iso file, then click Select.



- Click Save when you return to the settings screen.
- Start the virtual machine.
- The virtual machine will start from the updated .iso.

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

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 10](#)

Use the procedure in this section to upgrade these applications:

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

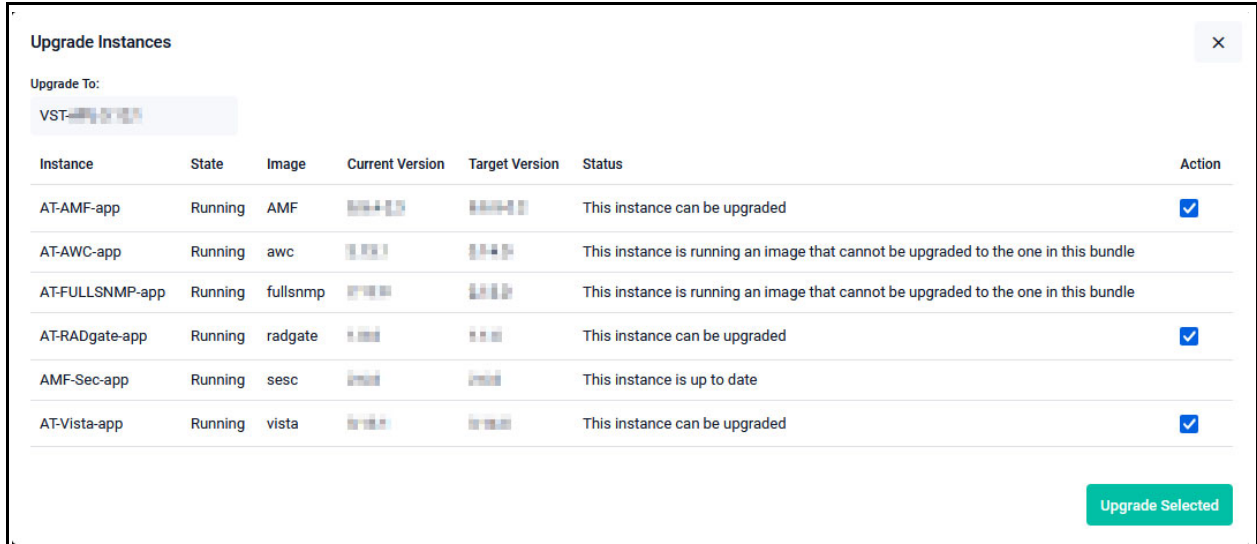
1. In the VST-VRT **Dashboard** page, click the **Upgrade Instances** button.

The screenshot shows the VST-VRT Dashboard interface. On the left is a navigation menu with items like Security, Network Infrastructure, Network Services, User Management, System, Vista Manager, AMF Cloud, AMF Security, Wireless Controller, SNMP Plug-in, AT-RADgate, and AWC-SDF. The main content area is titled 'Dashboard' and includes a 'System Information' section with metrics for CPU (4.80%), Memory (35.3%), Environment (Status: Good), and System Time (11/27/2025, 4:53:16 PM). Below this is a 'Deployed Applications' table with columns for Name, Image, CPU Load (%), Memory (MB), Storage (MB), and State. An 'Upgrade Instances' button is located in the top right of the table area.

Name	Image	CPU Load (%)	Memory (MB)	Storage (MB)	State
AMF-Sec-app	sesc			81920MB	Stopped
AT-AMF-app	AMF	0.11/100	139 / 23478	820 / 32768	Running <span>Open</span>
AT-AWC-app	awc	6.76/100	891 / 23478	4055 / 158221	Running <span>Open</span>
AT-FULLSNMP-app	fullsnmp	1.33/100	896 / 23478	2337 / 102400	Running
AT-RADgate-app	radgate	0.05/100	390 / 23478	847 / 32789	Running <span>Open</span>
AT-SDF-app	sdf				Offline
AT-Vista-app	vista	4.51/100	6985 / 23478	5922 / 102400	Running <span>Open</span>

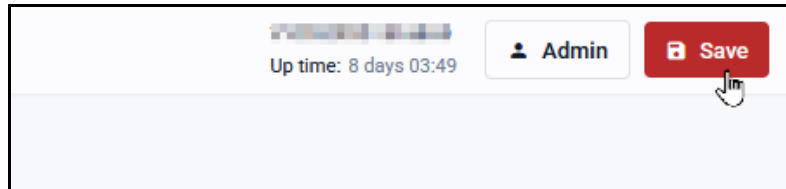
- Make sure the correct version of the bundle file is displayed in the **Upgrade to** field at the top left of the upgrade instances panel. If not, use the drop down list to select the correct version.

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



Instance	State	Image	Current Version	Target Version	Status	Action
AT-AMF-app	Running	AMF	1.1.1	1.1.2	This instance can be upgraded	<input checked="" type="checkbox"/>
AT-AWC-app	Running	awc	1.1.1	1.1.2	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-FULLSNMP-app	Running	fullsnmp	1.1.1	1.1.2	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-RADgate-app	Running	radgate	1.1.1	1.1.2	This instance can be upgraded	<input checked="" type="checkbox"/>
AMF-Sec-app	Running	sesc	1.1.1	1.1.1	This instance is up to date	
AT-Vista-app	Running	vista	1.1.1	1.1.2	This instance can be upgraded	<input checked="" type="checkbox"/>

- Click the **Upgrade Selected** button and wait until the upgrade is complete. The **Status** column shows progress. The applications 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 the changes 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.

**Dashboard**

**System Information**

- CPU: 0.00%
- Memory: 33.7%
- Environment: ✓ Status: Good
- System Time: 12/10/2025, 6:04:53 PM

**Deployed Applications** [Upgrade Instances](#)

Name	Image	CPU Load (%)	Memory (MB)	Storage (MB)	State	
AMF-Sec-app	sesc			81920MB	Stopped	
AT-AMF-app	AMF	0.11/100	139 / 23478	820 / 32768	Running	<a href="#">Open</a>
AT-AWC-app	awc	0.10/100	1076 / 23478	3990 / 156574	Running	<a href="#">Open</a>
AT-FULLSNMP-app	fullsnmp	0.19/100	932 / 23478	2371 / 102151	Running	
AT-RADgate-app	radgate	0.05/100	433 / 23478	848 / 32789	Running	<a href="#">Open</a>
AT-SDF-app	sdf				Offline	
AT-Vista-app	vista	2.91/100	6941 / 23478	4000 / 104048	Running	<a href="#">Open</a>

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

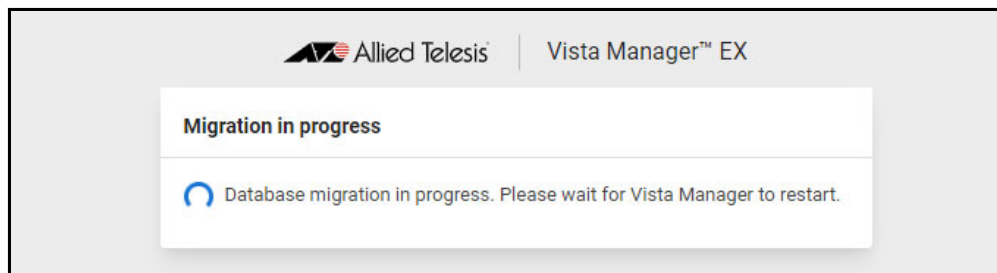
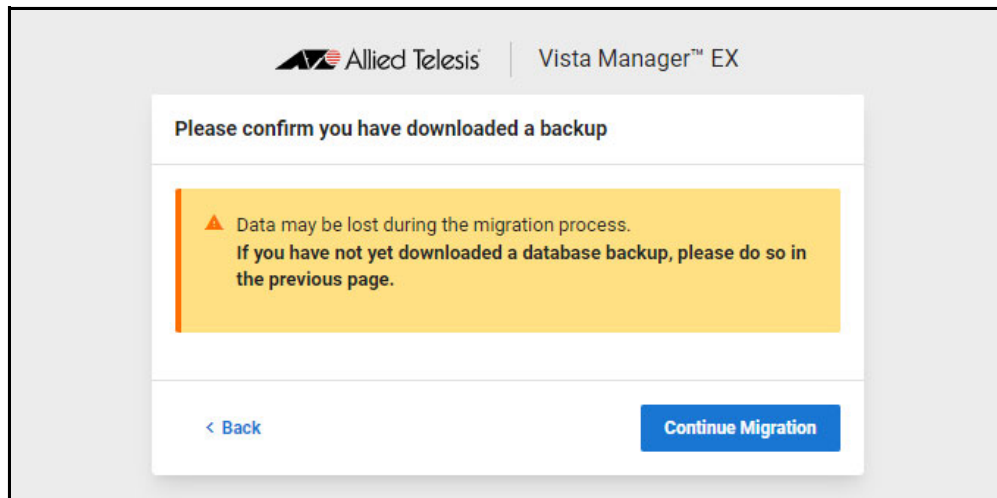
**Allied Telesis** | Vista Manager™ EX

**Vista Manager EX requires database migration**

Your Vista Manager EX data will be migrated automatically.  
Please download a backup of your current data before proceeding.

[Download Database Backup](#)
[Continue Migration](#)

7. 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) plugin applications

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

- Wireless Controller (AWC)
- SNMP (Full)

Before upgrading these applications, complete the following steps:

- ["Back up application data" on page 8](#)
- ["Upgrade the VST-VRT operating system and GUI on Hyper-V Server" on page 10.](#)

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 to perform the upgrade.
- use the Upgrade button in the VST-VRT GUI to upgrade.

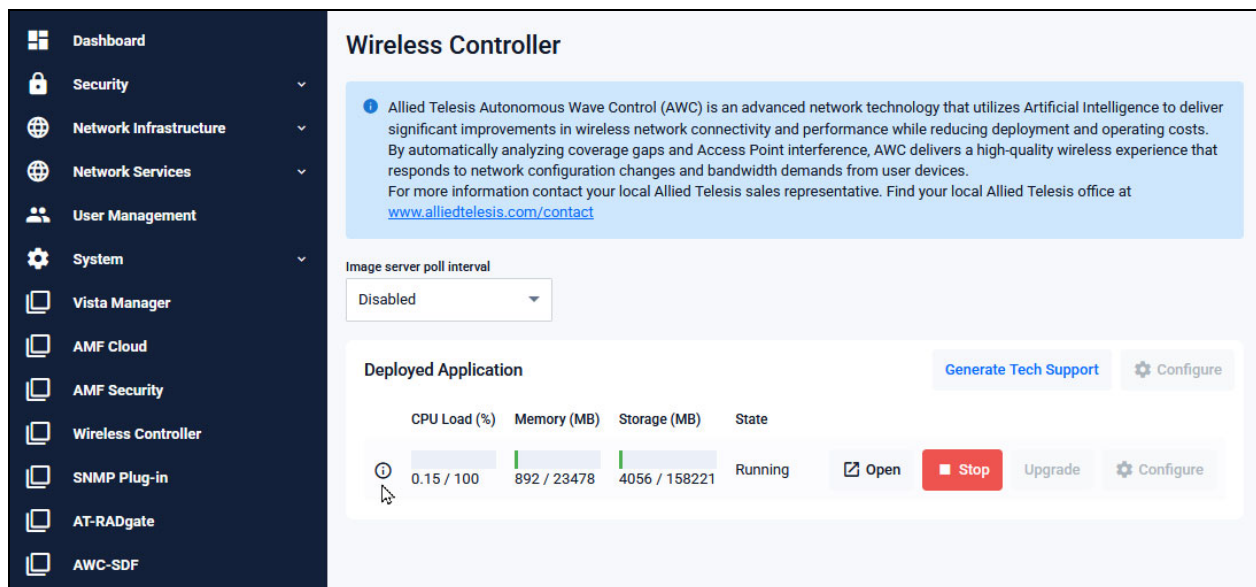
Instead, use these procedures:

- “Destroy and recreate the application instances” on page 19
- “Re-register plugins in Vista Manager” on page 22
- “Restore application data from back-up” on page 24.

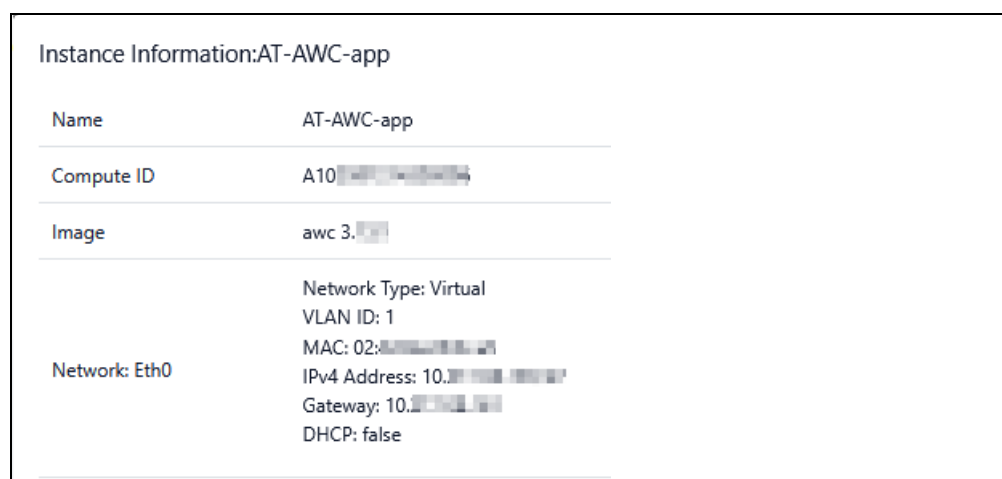
## Destroy and recreate the application instances

In the VST-VRT GUI, follow these steps.

1. Navigate to the application page for the application.

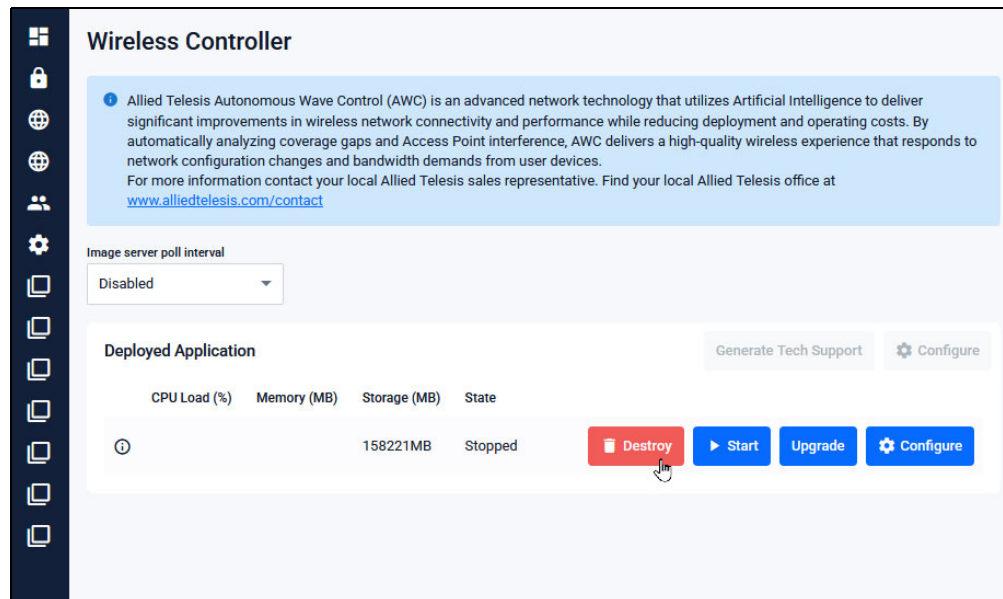


2. Hover over the Instance Information icon (i) and record information about the application from the **Instance Information** panel. Record all the network settings (Network Type, etc). You will need this information in a later step.



3. In the application page, stop the application by clicking the **Stop** button.

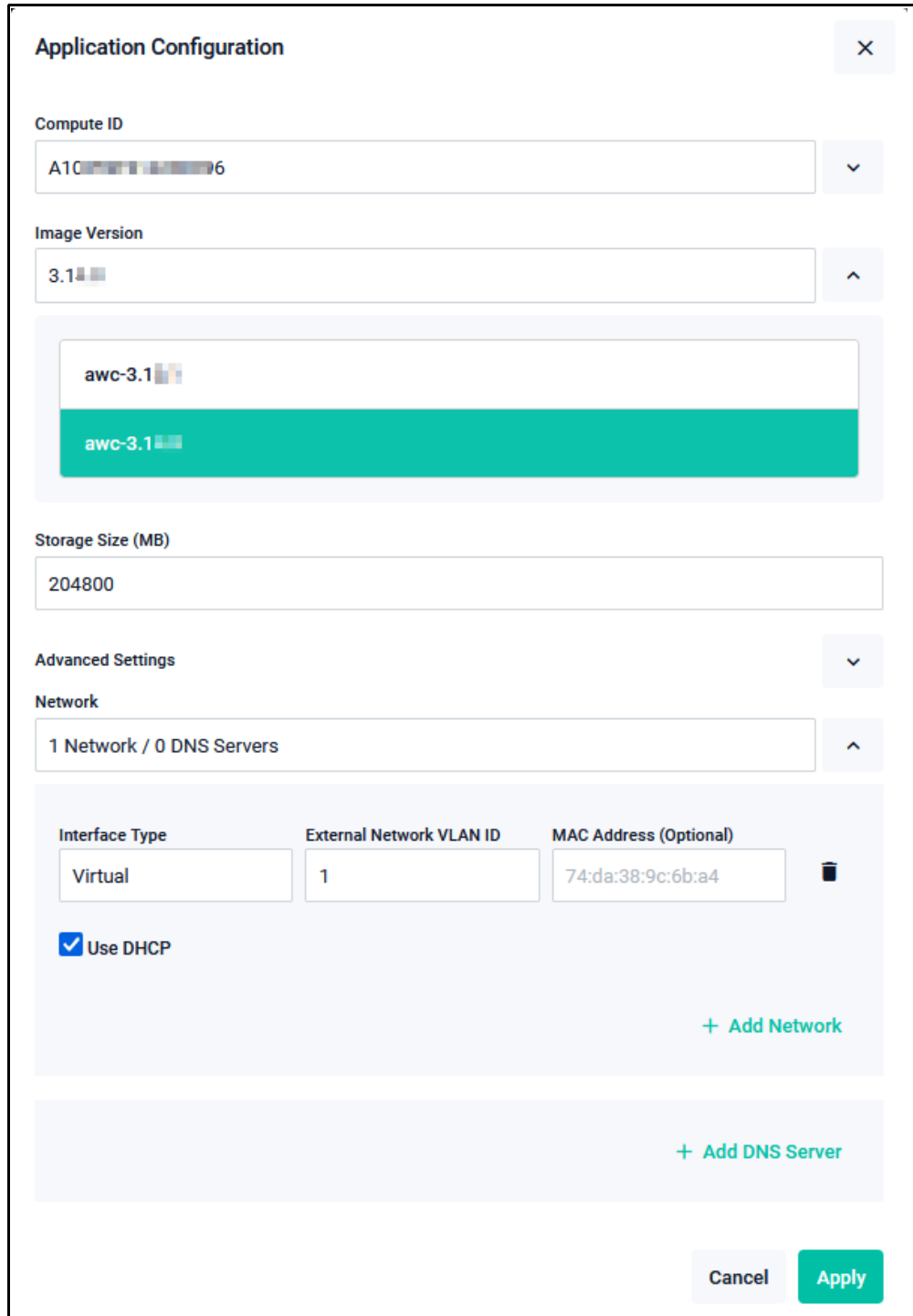
4. Destroy the application by clicking the **Destroy** button.



5. Create a new instance. First, in the application page, click the **Configure** button.
6. 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 recorded network data. The recommended storage values are:

AWC: 204 800 MB  
 SNMP Full: 102 400 MB



**Application Configuration** [X]

Compute ID  
 A10... [v]

Image Version  
 3.1... [^]

awc-3.1...  
 awc-3.1...

Storage Size (MB)  
 204800

Advanced Settings [v]

Network  
 1 Network / 0 DNS Servers [^]

Interface Type	External Network VLAN ID	MAC Address (Optional)
Virtual	1	74:da:38:9c:6b:a4 [trash]

Use DHCP

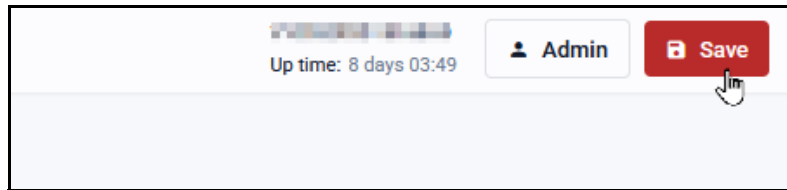
+ Add Network

+ 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.

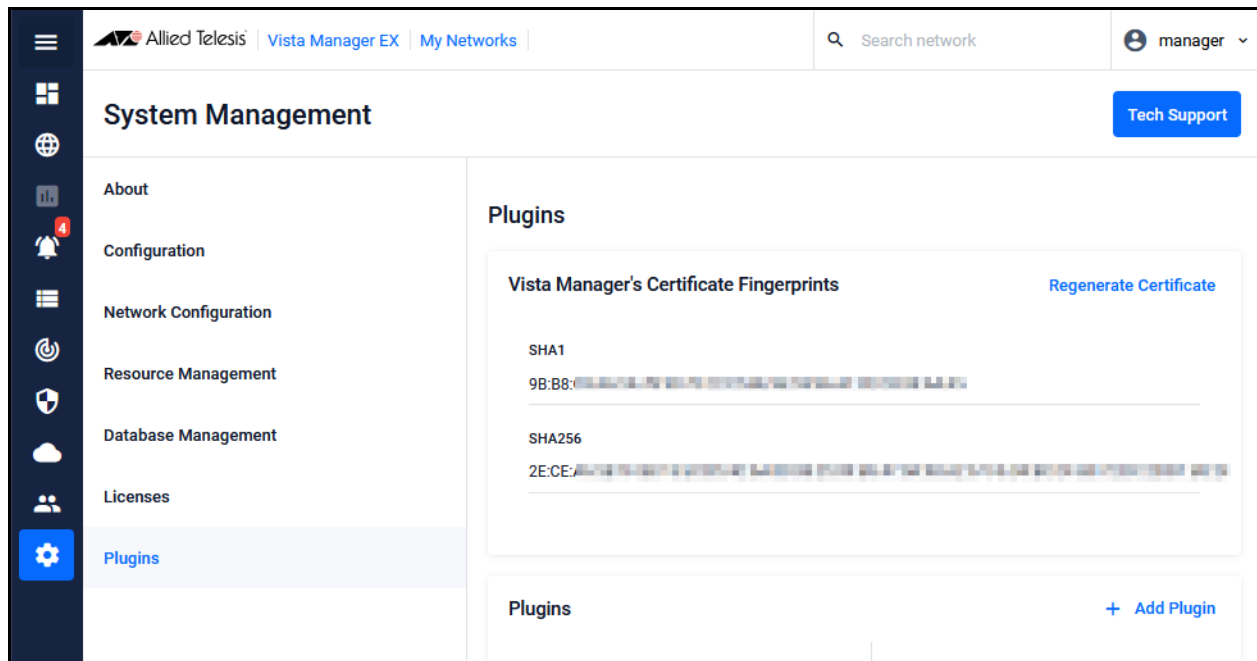
## Re-register plugins in Vista Manager

If you are using these plugins in Vista Manager EX, you will need to re-register them:

- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plugins.

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



2. Click **+Add Plugin**.

### Register Plugin ✕

**i** If you are installing Vista Manager EX and its plugin on the same host, specify "localhost" in the plugin server URL.  
For Appliance box or virtual appliance installations, replace "localhost" with the IP address of the plugin application in the plugin server URL.  
Please see [Vista Manager EX User Guide](#) for detailed documentation.

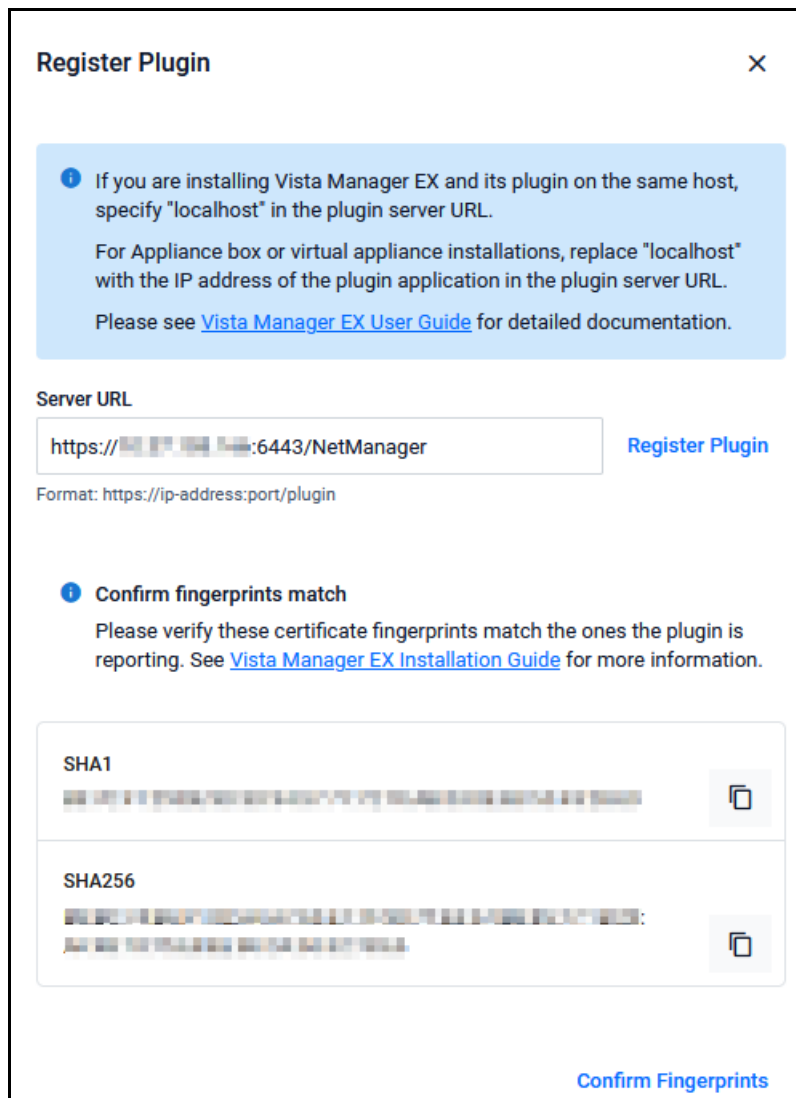
Server URL

 [Register Plugin](#)

Format: `https://ip-address:port/plugin`

3. 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**.



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

Next, restore system data for the plugin application from the back-up file, as required.

## Restore application data from back-up

For the Wireless Controller and SNMP (Full) applications, use the following procedures to restore the system data from backup files:

- “Restore system data for the Wireless Controller plugin” below
- “Restore system data for the SNMP plugin” on page 26

Note that:

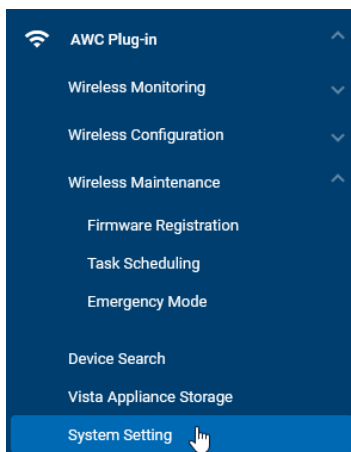
- Restoring a backup file made on another platform is not supported.
- For the applications upgraded as a set in this procedure “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 15, the data is restored automatically.

## Restore system data for the Wireless Controller plugin

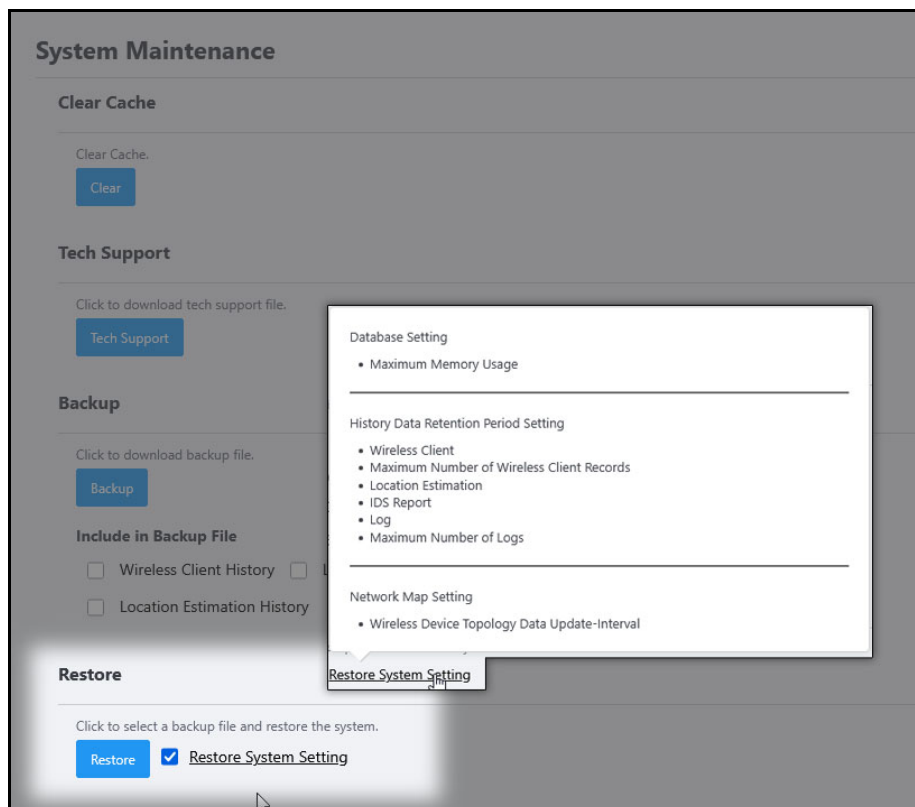
Note that restoring a backup file made on another platform is not supported.

To restore data from the back-up file for the Wireless Controller (AWC) plugin 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 plugin > System Setting**.

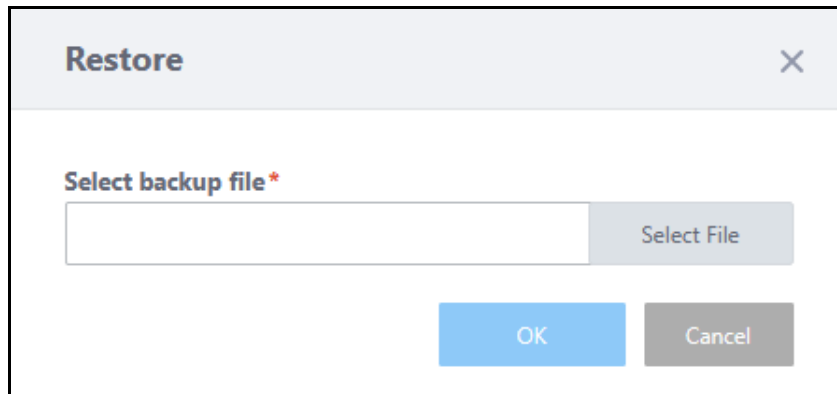


3. On the **System Information** page, scroll down to the **System Maintenance** section.
4. Scroll down to the **Restore** section.



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

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



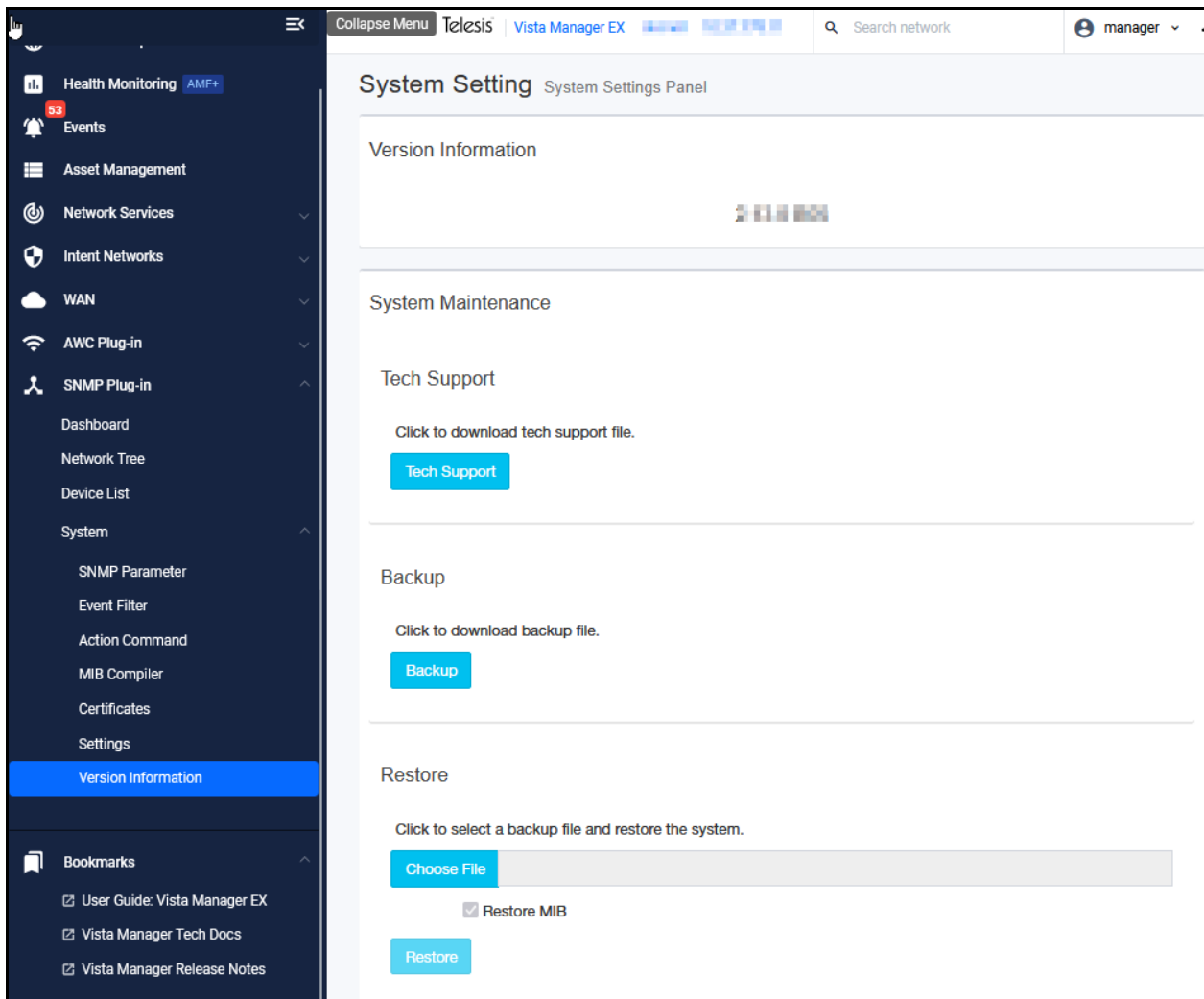
6. Click **OK**. Confirm.
7. After it has finished restoring, a dialog box shows that restoration is complete. Click **OK**.

### Restore system data for the SNMP plugin

To restore data from the backup of application data for the SNMP plugin application, follow these steps.

1. Log in to Vista Manager EX using an Admin account.
2. In the left menu of Vista Manager EX, click the **SNMP plugin** icon, then click **Version Information**.

3. In the **System Setting** panel, scroll down to the **System Maintenance** panel and in that, to the **Restore** panel.



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

## Remove obsolete files from memory

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

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.