

# Release Note for AT-VST-APL Vista Manager Network Appliance Software Version 3.12.x



» VST-APL v3.12.1 (Vista Manager 3.14.1)

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## Accessing the Web-based VST-APL GUI

This section describes how to access the GUI to manage and monitor your Vista Manager Network Appliance.

These browsers are supported:

- Google Chrome™
- Mozilla Firefox™
- Microsoft Edge or Internet Explorer™ 11 or later
- Apple Safari™.

The VST-APL Web GUI is pre-installed. Connect to the GUI by following these steps.

### Step 1: Connect to the appliance.

Connect the appliance to the network by one of the front panel Ethernet ports. (The console port is for diagnostic use, not for device management.)

### Step 2: Open a web browser and browse to the IP address for the appliance.

The appliance is set to accept an IP address from DHCP.

If DHCP does not assign one, it uses the default IP address 192.168.1.1/24.

For more information on starting the initial management session, see the Installation Guide.

### Step 3: Log in to the GUI.

The default username is *manager* and the default password is *friend*.

The web browser displays the VST-APL dashboard.

For more detailed information on starting the initial management session, see the Installation Guide for your appliance.

Once you have logged into the GUI, you can manage the appliance itself. You will need to activate each application you require. Use the application menu item in the dashboard menu in the web-based VST-APL Web GUI to activate, monitor, manage and access each application as needed for your network.

For more information about using the appliance, see [Vista Manager Network Appliance \(VST-APL\) Technical Documents](#)

# VST-APL Software Version 3.12.1

Product family supported by this version:

AT-VST-APL Vista Manager Network Appliance Series

## Introduction

This release note describes the new features in software version 3.12.1 for the VST-APL Vista Manager Network Appliance and the new software features in this version.

You can obtain the VST-APL upgrade from the [Allied Telesis Support Portal](#).

For more information about the product, see [Vista Manager Network Appliance \(VST-APL\) Technical Documents](#)

These models support this version:

Table 1: VST-APL models

Models	Family
AT-VST-APL-06 AT-VST-APL-10	VST-APL

For more information on VST-APL models see the [Vista Manager Network Appliance datasheet](#).

## Application support in VST-APL 3.12.1

This VST-APL version provides the following software, applications, and files:

SOFTWARE	VERSION	FILENAME
VST-APL operating system	1.10.2	ATVSTAPL-1.10.2.iso
VST-APL application bundle	3.12.1	VST-APL-3.12.1.bundle
Vista Manager	3.14.0	vista-x86_64-3.14.0.app
Wireless Controller (AWC)	3.14.0	awc-x86_64-3.14.0.app
SNMP-Full	2.13.0	fullsnmp-x86_64-2.13.0.app
AMF Cloud	5.5.5-0.2	amf-x86_64-5.5.5-0.2.app
AMF Security	2.6.0	sesc-x86_64-2.6.0.app
AT-RADgate	1.1.0	radgate-x86_64-1.1.0.app

## What's New in VST-APL 3.12.1

This VST-APL 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 release notes and other technical documents for VST-APL and its applications, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

### 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 and other technical documents for Wireless Controller (AWC), see the [Vista Manager EX Release Notes](#) page on our website.

### SNMP

The SNMP (SNMP full) plug-in application was upgraded to 2.13.0. For release notes and other technical documents for SNMP, 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 Network Appliance 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 Network Appliance Technical Document](#) page on our website.

## Upgrading VST-APL

This section describes how to upgrade the VST-APL GUI and applications. It describes how to:

- “Back up the system” on page 7
- “Back up application data” on page 10
- “Upload component software” on page 11
- “Upgrade the operating system and GUI” on page 12
- “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 13
- “Upgrade Wireless Controller (AWC) and SNMP (full) plug-in applications” on page 15
- “Remove obsolete files from memory” on page 24

## Back up the system

In VST-APL 3.4.x and later, you can use the Backup and Restore feature to create a back-up file for a VST-APL Network Appliance.

The back-up file records, and can restore:

- the appliance configuration
- the APP files stored in the appliance persistent memory.  
These contain the images of the application software. You can choose which of these application files to back up.
- snapshots of selected application instances or all instances.  
Each of these is a snapshot of the configuration and application data of an application instance on the device.

This feature does not back up application bundle files. We recommend backing these up manually.

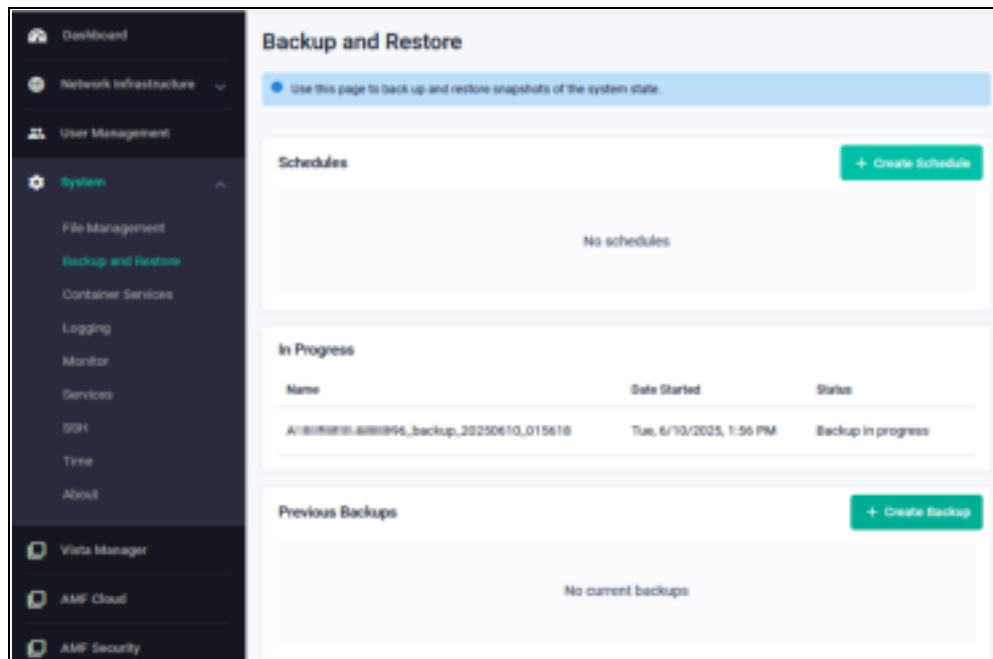
## Backup and restore: back up the appliance

To back up all the appliance configuration, any application image files (.app) and the application data for all application instances, follow these steps. This provides a backup that can later be used to restore either an individual application instance or all the application configuration and application instances.

1. If there is unsaved appliance configuration that you want to include in the back-up, click the **Save** button at the top of the VST-APL GUI page.
2. Connect external media for storing the back-up to the appliance’s USB port. The external media must have one of the following supported formats: FAT32, exFAT, ext2, ext3 or ext4.

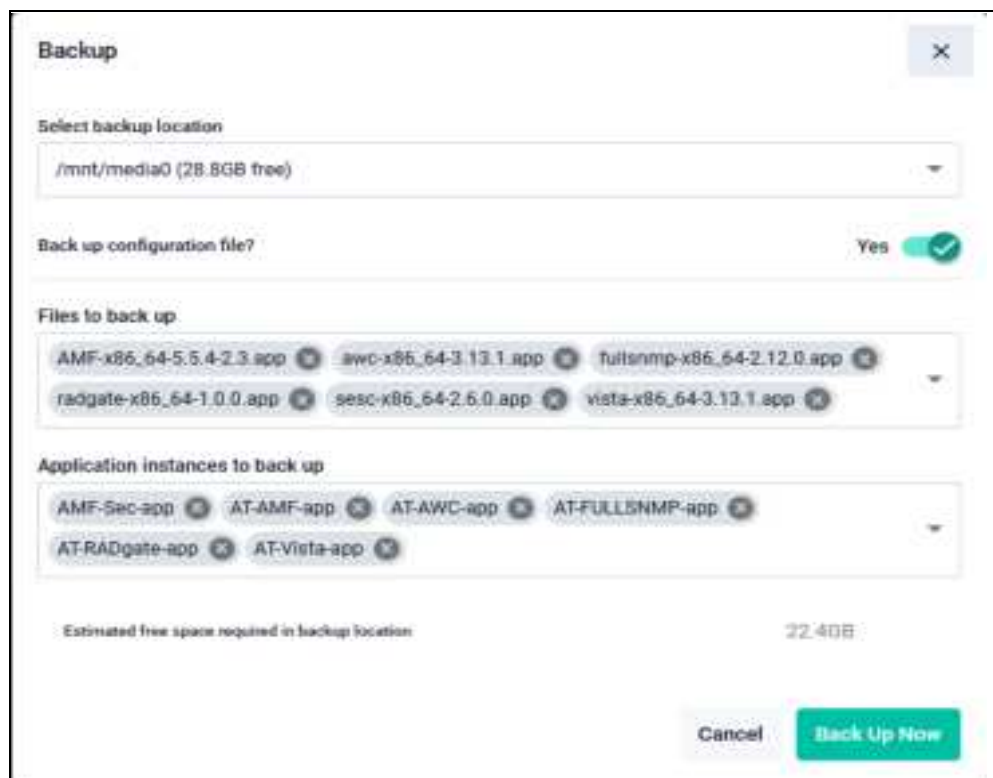
Note that if the external media file system format does not support a sufficiently large file size, the backup will fail. Choose a different external media with a file system format that supports a larger maximum file size, such as ext4.

3. In the VST-APL menu, navigate to **System > Backup and Restore**.



4. On the **Backup and Restore** page, click **+ Create Backup** at the top right of the **Previous Backups** panel.

The **Backup** dialog box opens, showing the default settings for the back-up you are about to create, and the storage space it estimates that you need to have free on the external media.





5. In the **Backup** dialog box, **Select backup location** field, choose the external media connected previously.  
Check that the backup location has sufficient free space for the new back-up file. You can see the free space available on the backup media in this panel. You can also see the file system of the external media by navigating to the **System > File Management** page and then clicking in the file path at the top of the **File System (fs)** panel.
6. By default, the back-up configuration sets the device to back up everything it can. We recommend backing up all of them. Check that the following are selected for backup:
  - **Back up configuration file?** is set to **Yes**. This sets the file default.cfg to back up.
  - all **application image files** stored in the device's file system, such as vista-x86\_64-x.x.x.app and other APP files. (It does not backup bundle files.)
  - all **application instances** on the device that are Running or Stopped, such as AT-VISTA-app and other application instances.  
If an application instance is not displayed, then make sure it is Running or Stopped. (To check this, from the VST-APL menu, navigate to the VST-APL page for the application or to **System > Container Services**).
7. Click the **Back Up Now** button at the bottom right. The backup dialog box closes, and the current back-up job shows in the **In Progress** panel in the Backup and Restore page. Backing up may take several minutes.

In Progress		
Name	Date Started	Status
A-10359000000000000000_backup_20220610_015618	Tue, 6/10/2022, 1:56 PM	Backup in progress

The backup filename will have a format like this:

`<device-serial-number>_backup_YYYYMMDD_HHMMSS.abk`

for example:

`A103590000000000000000_backup_20220113_011350.abk.`

If the appliance estimates that the space required for the back-up is close to the free space available on the external media, a pop-up window with a warning message appears after clicking Back Up Now. Consider providing more free space on the external media.

When the backup is complete, it disappears from the In Progress panel, and shows in the **Previous Backups** panel. Here you can see the time (Last Modified) and file size of the back-up. Status **Valid** confirms that the backup file has been stored successfully with a valid checksum file.

For more information about the Backup and Restore feature and how to restore a VST-APL system or application, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

## 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 application instance needs to be destroyed and recreated during the process. (Use the backup feature in the applications; do not use the VST-APL backup and restore feature).

## Back up application data

Before upgrading the Wireless Controller and SNMP Full applications, you must back up their system data. This is because you have to destroy these application instances to upgrade them. The procedures for this are described in this section. We recommend also backing up other applications. The procedures are similar.

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

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

1. Log into Vista Manager EX using an Admin account.
2. From the AWC Plug-in menu, select **System Setting**.
3. To create a backup file for the log data in addition to the other data backup, check the **Include Log Data** checkbox to the right of the Backup button under System Maintenance (optional).
4. To start the back-up downloading, click the **Backup** button in the System Maintenance section.
5. From your web browser's dialog box, save the backup file to your local computer.

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

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 **Version Information**.
3. In the **System Setting** panel, scroll down to the **System Maintenance** panel and in that, to the **Backup** panel. Click the **Backup** button. This creates a backup of application data.

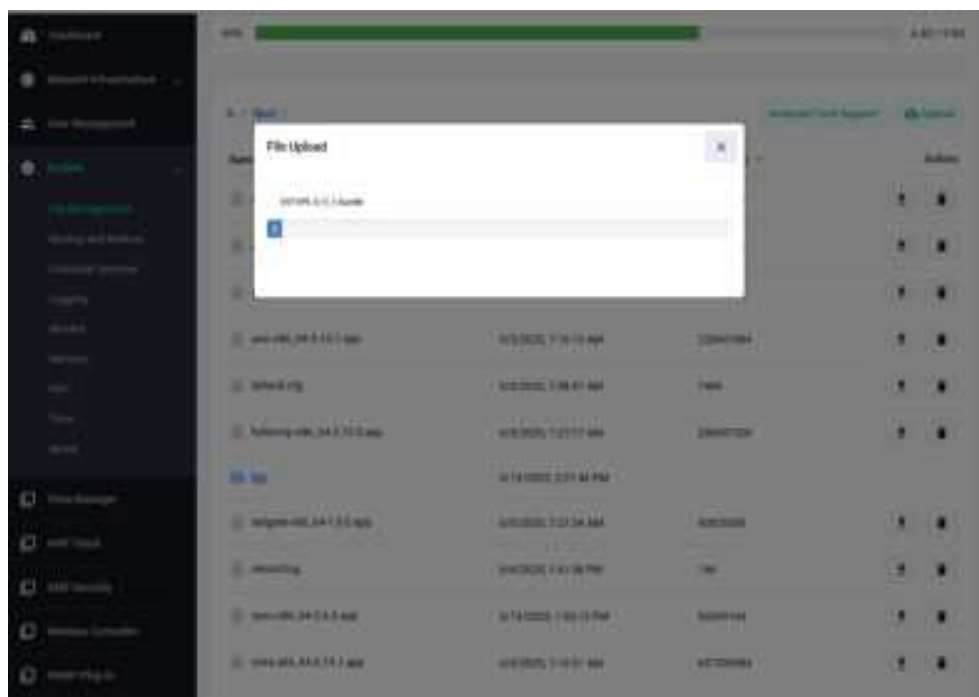
## Upload component software

You need the new image files in the appliance persistent storage to change the running software. Make sure to upgrade the operating system and all the applications you are using, so that they match.

To see which version of the VST-APL operating system the appliance is currently running, use the VST-APL GUI to navigate to the **System > About** page. To see the application files loaded in the appliance's memory, navigate to the **System > File Management** page. To see the current version of an application running on the appliance, go to the GUI page for the application by clicking on its menu item, and hover over the instance information icon in the Deployed Application panel.

**Caution:** Ensure you obtain the software image files from Allied Telesis. If you try to install software that is not provided by Allied Telesis, there is risk of corrupting the installation.

1. Download the following files from the [Allied Telesis Support Portal](#). Save them to a directory that the appliance can access, such as the device your GUI browser is running on.
  - « the appliance software operating system and web GUI. This has a filename like ATVSTAPL-x.x.x.iso.
  - « all the applications as a bundle. This has a filename like VST-APL-x.x.x.bundle.
2. In the VST-APL GUI, navigate to the **System > File Management** page. Click the **Upload** button and select the software image files to upload.



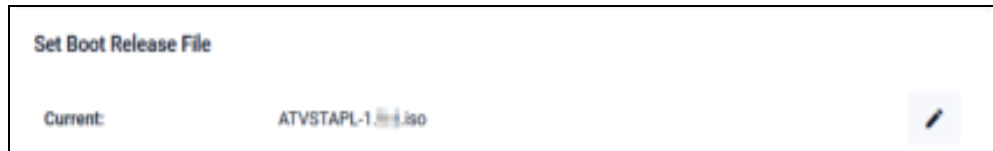
## Upgrade the operating system and GUI

Before upgrading the operating system, make sure to:

- “Back up the system” on page 7
- “Upload component software” on page 11

To upgrade the VST-APL operating system, in the VST-APL GUI, follow these steps.

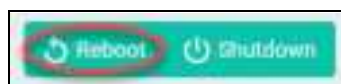
1. In the **File Management** page **Set Boot Release File** panel, click **Browse**.



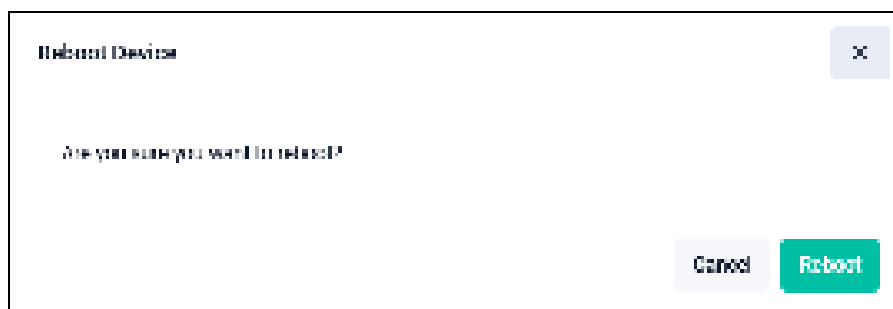
2. Select the new software version and click **Apply**.



3. Reboot the appliance by clicking the green **Reboot** button at the top right of the **File Management** page.



4. Click **Reboot** again to confirm.



The appliance will shut down any applications that are running, install the new version of the VST-APL operating system, and restart any applications that were running when the appliance configuration was last saved. This may take several minutes. The

appliance configuration, including IP addressing, is retained from the last time it was saved.

5. When the upgrade has completed, you will need to re-authenticate to access the appliance.
6. To verify the currently running software version, log in to your VST-APL Web GUI, and navigate to the **System > About** page. The **Software Version** should agree with the VST-APL Web GUI version.

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

VST-APL version 3.4.1 and later (VST-APL Web GUI version 1.5.1 and later) support simpler upgrade of applications from a bundle. This ensures they are compatible with each other and the operating system version.

Before upgrading these applications:

- “Back up application data” on page 10
- “Upload component software” on page 11
- “Upgrade the operating system and GUI” on page 12

Use this procedure to dynamically upgrade these applications:

- Vista Manager
  - AMF Cloud
  - AMF Security
  - RADgate
1. In the **Dashboard** page, click the **Upgrade Instances** button.



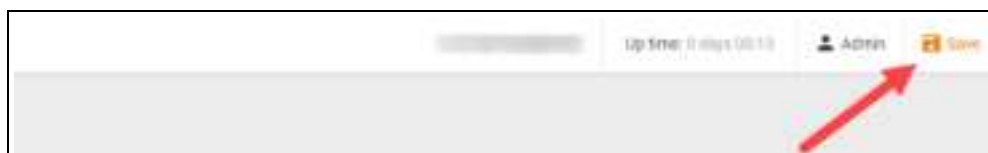
2. Make sure the correct version of the bundle file is displayed in the **Upgrade to** field at the top left of the upgrade instances panel. If not, use the drop down list to select the correct version.

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	3.10.0	3.12.0	This instance can be upgraded	<input checked="" type="checkbox"/>
AT-AWG-app	Running	awg	3.10.0	3.14.0	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-FULLSNMP-app	Running	fullsnmp	3.10.0	3.12.0	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-RADgate-app	Running	radgate	3.10.0	3.12.0	This instance can be upgraded	<input checked="" type="checkbox"/>
AMF-Sec-app	Running	sec	3.10.0	3.10.0	This instance is up to date	
AT-Viate-app	Running	viate	3.10.0	3.12.0	This instance can be upgraded	<input checked="" type="checkbox"/>

3. 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.
4. It is important to save the state of the VST-APL 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.

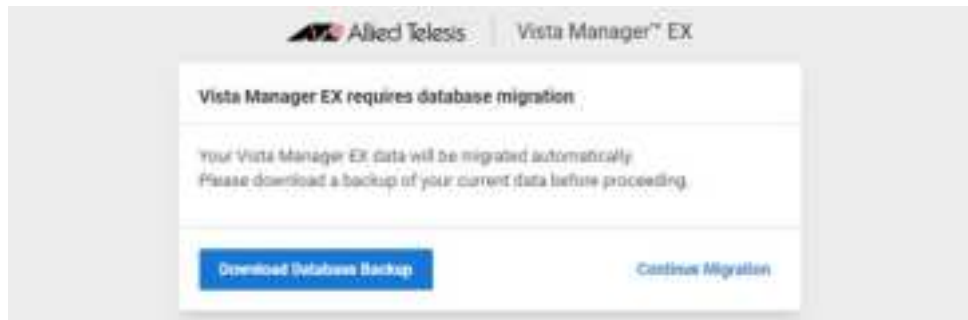


Note that if you do not save and VST-APL is rebooted, the upgraded applications will revert to the old APP images and fail to start. You will see 'configured image "<image-name>" doesn't exist' messages if this happens.

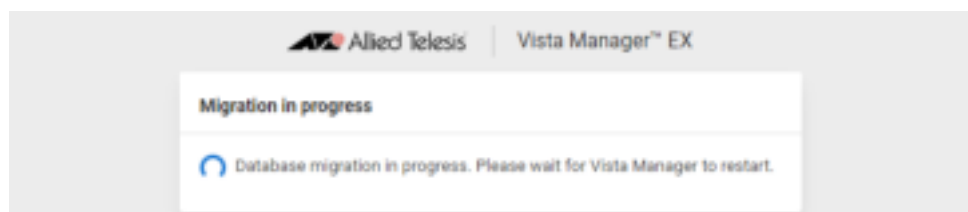
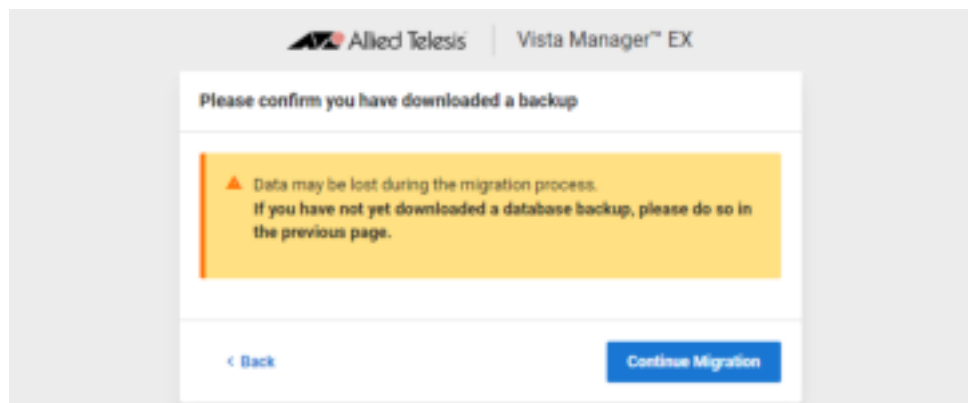
Note that the earlier versions of the applications show as unsigned even though they are signed.



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



6. 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.



7. Once the migration has completed, your connection may be lost. If this happens, close your browser and reopen the application from the VST-APL 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, make sure to:

- “Back up the system” on page 7
- “Back up application data” on page 10
- “Upload component software” on page 11
- “Upgrade the operating system and GUI” on page 12

The following applications are not supported by upgrading as a set from the bundle.

- Wireless Controller (AWC) plug-in
- SNMP (Full) plug-in

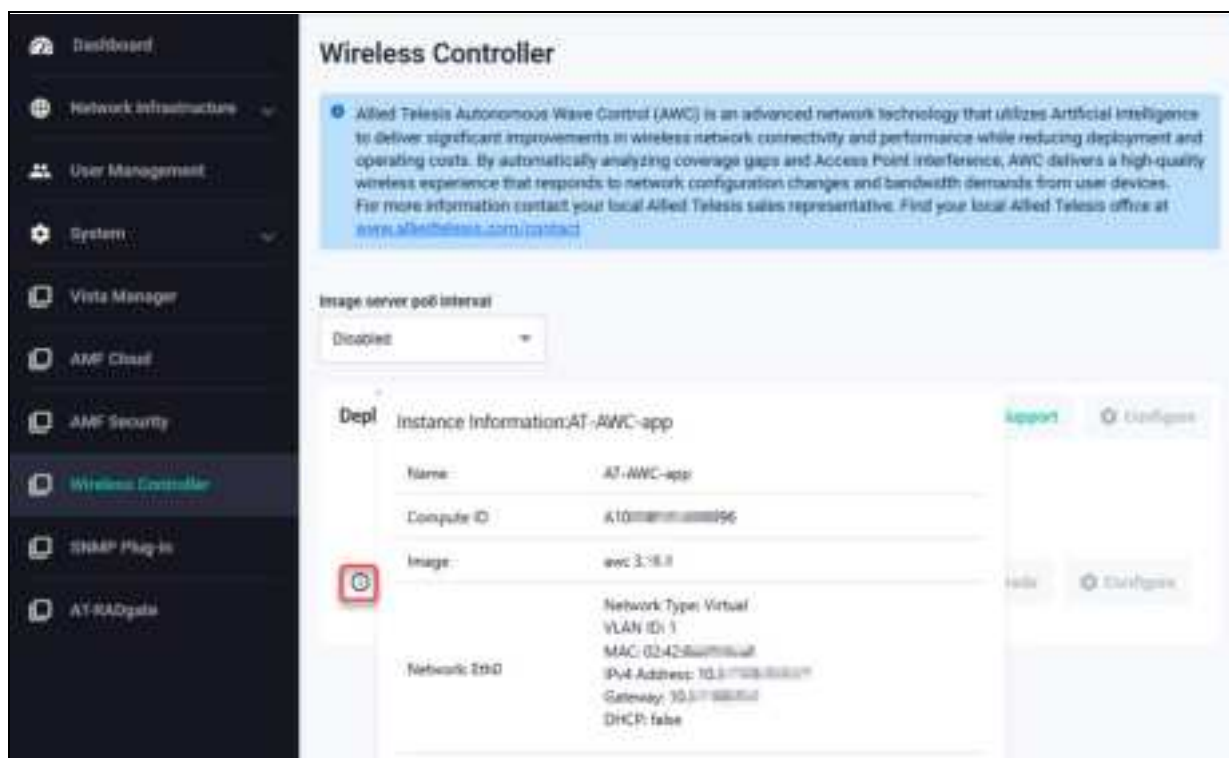
Instead, use these procedures:

- “Destroy and recreate application instances” on page 16
- “Re-register plug-ins in Vista Manager” on page 19
- “Restore application data from back-up” on page 21

## Destroy and recreate application instances

In the VST-APL 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.





Instance Information: AT-AMC-app	
Name	AT-AMC-app
Compute ID	ATC-00000000000000000000000000000000
Image	aws-3-00000000000000000000000000000000
Network: ENI0	Network type: Virtual VPC: VPC-00000000000000000000000000000000 MAC: 02:00:00:00:00:00 IPv4 Address: 10.0.0.0/24 Gateway: 10.0.0.1 DHCP: false

3. In the application page, stop the application by clicking the **Stop** button. Destroy the application by clicking the **Destroy** button.
4. Create a new instance. First, in the application page, 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.

- ```
AWC:      204 800 MB
SNMP Full: 102 400 MB
```

[illegible]

- few minutes for this to start and for the **Open** button to appear.

8. It is important to save the state of the 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.



9. From the device 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.
10. Log in to the Vista Manager EX application.

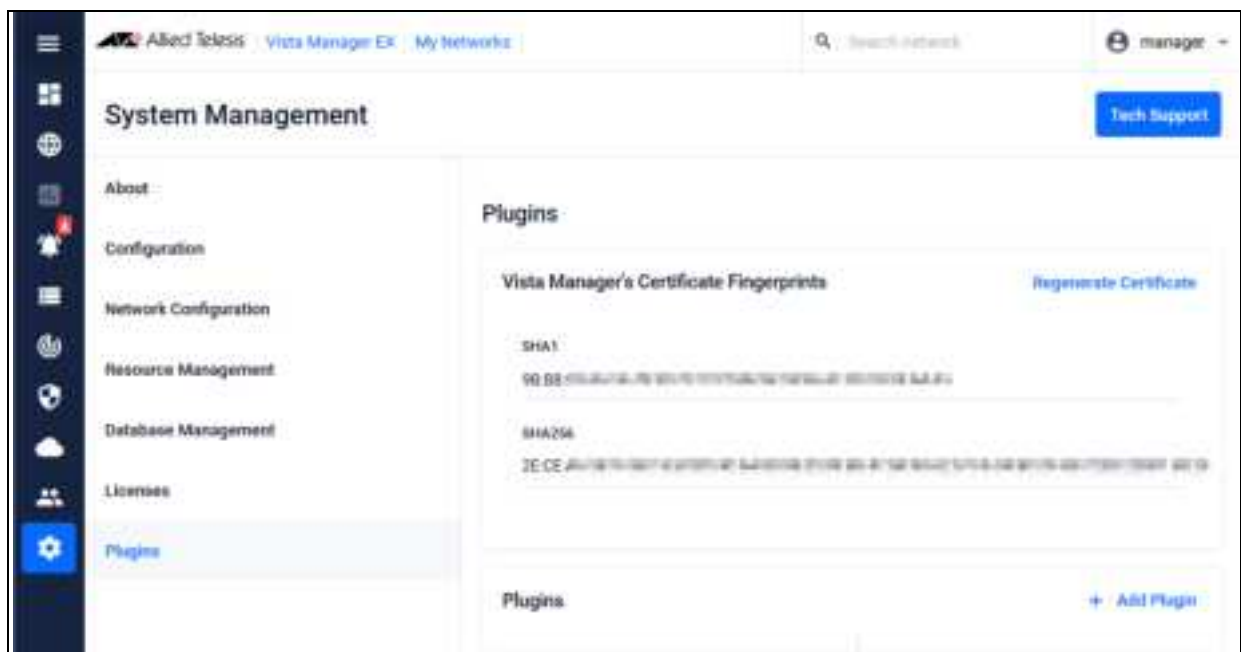
## Re-register plug-ins in Vista Manager

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

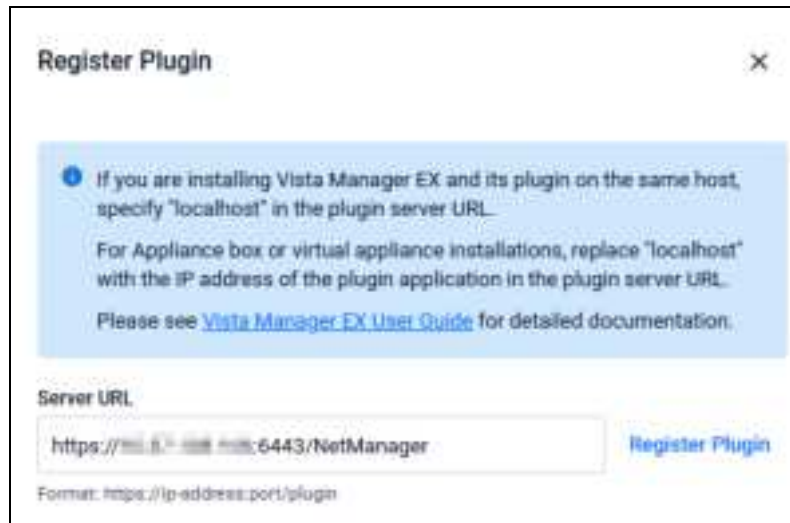
- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plug-ins.

11. In the Vista Manager EX GUI, 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**.

✕

## Register Plugin

**1** 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**

https:// :6443/NetManager

[Register Plugin](#)

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

**2 Confirm fingerprints match**

Please verify these certificate fingerprints match the ones the plugin is reporting. See [Vista Manager EX Installation Guide](#) for more information.

|            |  |
|------------|--|
| SHA1<br>   |  |
| SHA256<br> |  |

[Confirm Fingerprints](#)

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" below).

## 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 from backup files:

- “Restore system data for the Wireless Controller plug-in” on page 22
- “Restore system data for the SNMP plug-in” on page 23

Note that:

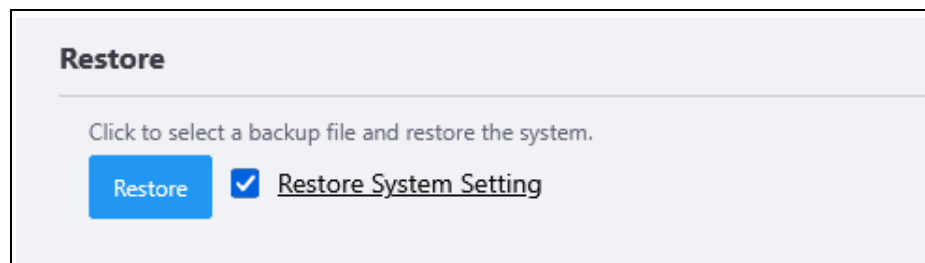
- Restoring a backup file made on another platform is not supported.
- For the applications upgraded as a set in this procedure [“Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 13](#), the data is restored automatically.

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

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

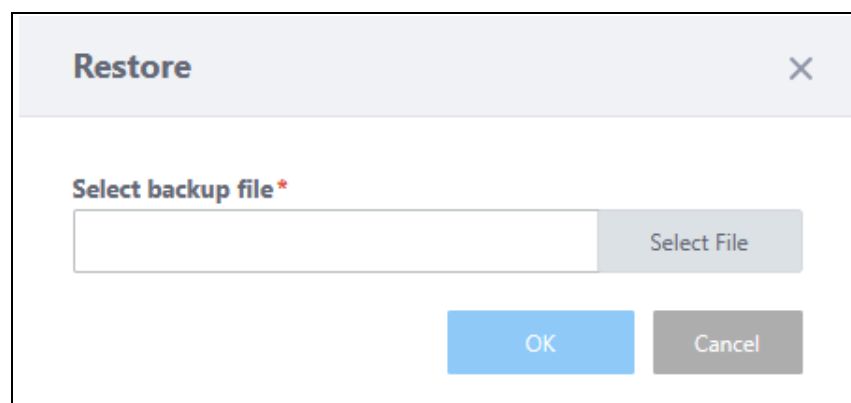
To restore data from the back-up file for the Wireless Controller (AWC) plug-in application, follow these steps:

15. Log in to Vista Manager EX using an Admin account.
16. In the Vista Manager EX menu, navigate to **AWC Plug-in > System Setting**.
17. 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.

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



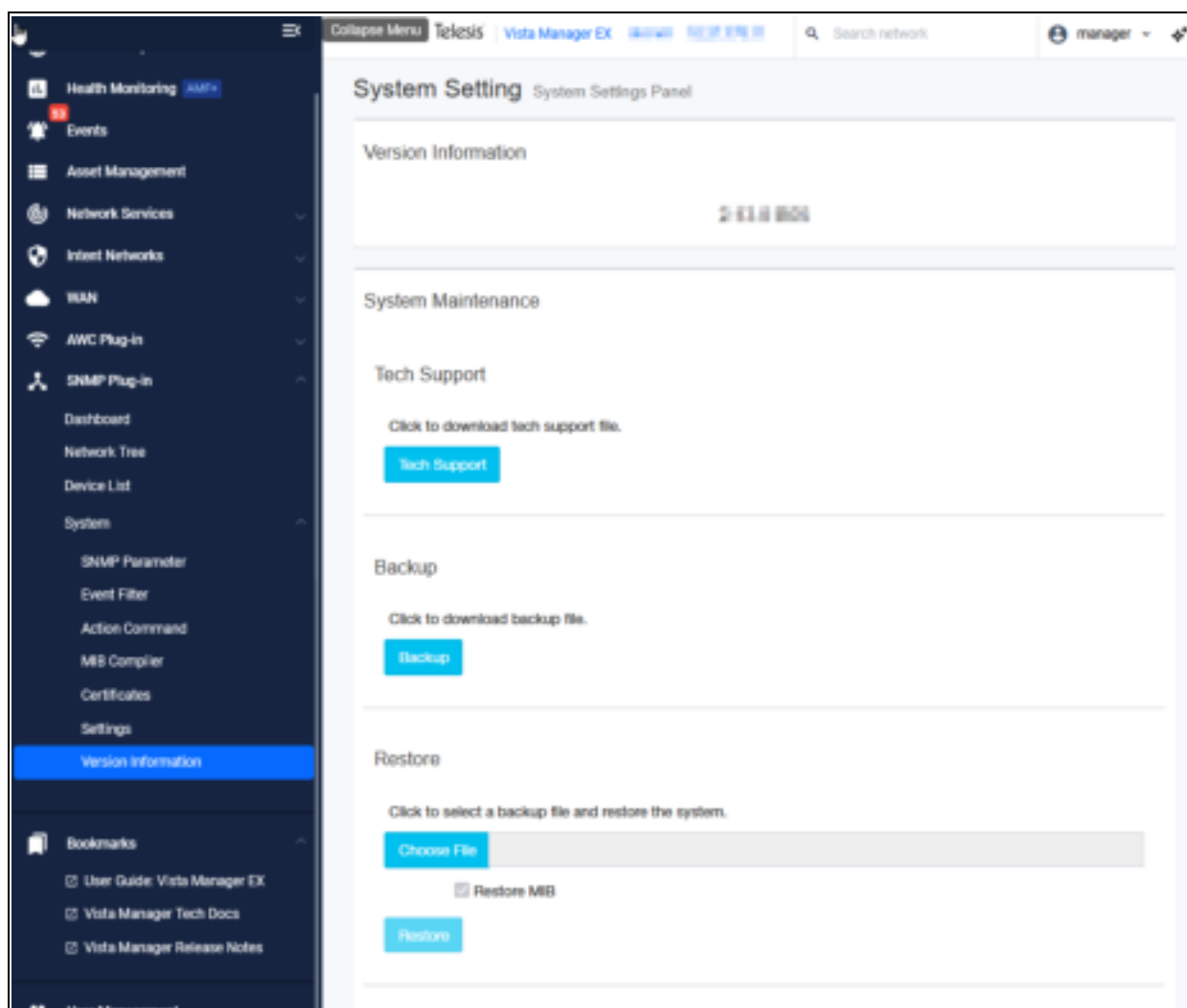
19. Click **OK**.
20. Confirm.
21. After it has finished restoring, a dialog box shows that restoration is complete. Click **OK**.

## Restore system data for the SNMP plug-in

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

Log in to Vista Manager EX using an Admin account.

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



24. 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 in the device's persistent memory by removing obsolete files. We recommend removing the .iso file for the previous version of the operating system and the bundle file for the previous bundle of applications. Keep the current versions.

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