

Release Note for AT-VST-APL Vista Manager Network Appliance Software Version 3.13.x



» VST-APL v3.13.3

» VST-APL v3.13.2

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Getting the most from this Release Note

To get the best from this release note, we recommend using Adobe Acrobat Reader version 8 or later. You can download Acrobat free from www.adobe.com/

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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 3.13.3

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 3.13.3 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 3.13.3

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

SOFTWARE	VERSION	FILENAME
VST-APL operating system	1.12.3	ATVSTAPL-1.12.3.iso
VST-APL application bundle	3.13.3	VST-APL-3.13.3.bundle
Vista Manager	3.15.2	vista-x86_64-3.15.2.app
Wireless Controller (AWC)	3.15.2	awc-x86_64-3.15.2.app
SNMP-Full	2.14.2	fullsnmp-x86_64-2.14.2.app
AMF Cloud	5.5.5-1.3	amf-x86_64-5.5.5-1.3.app
AMF Security	2.6.1	sesc-x86_64-2.6.1.app
AT-RADgate	1.1.1	radgate-x86_64-1.1.1.app
AWC Sky Defender (AWC-SDF)	1.1.0	sdf-x86_64-1.1.0.app

What's New in VST-APL 3.13.3

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

- “Upgraded application support” below
- “AWC Sky Defender (AWC-SDF) app” on page 7
- “Remote Logging” on page 8

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 Documents](#) page on our website.

Upgraded application support

Vista Manager

The Vista Manager application was upgraded to version 3.15.2. 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 3.15.2. 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) plugin application was upgraded to 2.14.2. 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 5.5.5-1.3. For release notes for AMF Cloud, see the [Release Notes for AlliedWare Plus™ Version 5.5.5-x.x](#) page on our website. For other technical documents for AMF Cloud, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

AWC Sky Defender (AWC-SDF) app

This version of VST-APL adds support for the AWC Sky Defender (AWC-SDF) app.

AWC Sky Defender in Vista Manager EX detects the MAC addresses of BYOD devices connected to Embedded Wireless Controller deployments, which enables control of which user devices are able to access the network, as well as monitoring their connection status.

Set up AWC Sky Defender

See the [User Guide: Vista Manager AWC Plug-in version 3.13.1](#) > Operation Reference > AWC-SDF (AWC Sky Defender) > Access Control using MAC Address Collecting Network.

You will need to:

1. Create an instance of the AWC-SDF app on the VST-APL.
Set the storage to 8192 MB.
For more information about how to configure apps, see the “Vista Manager Network Appliance User Guide” on the [Vista Manager Network Appliance \(VST-APL\) Technical Documents](#) page on our website.
2. Configure the Embedded Wireless Controller on the remote wireless AP that you want AWC Sky Defender to work with.
Note that you will need to register the Embedded Wireless Controller that is in the Allied Telesis Wireless Access Points with the Remote Controller in AWC. In later versions of the Device GUI on the wireless APs, the Embedded Wireless Controller is configured from the Wireless Controller menu item. In earlier versions of the Device GUI, this was called Vista Manager mini.
3. Configure the AWC plugin in Vista Manager EX.
4. Configure the AWC Sky Defender.

Remote Logging

With this version, you can configure the VST-APL to send log messages to:

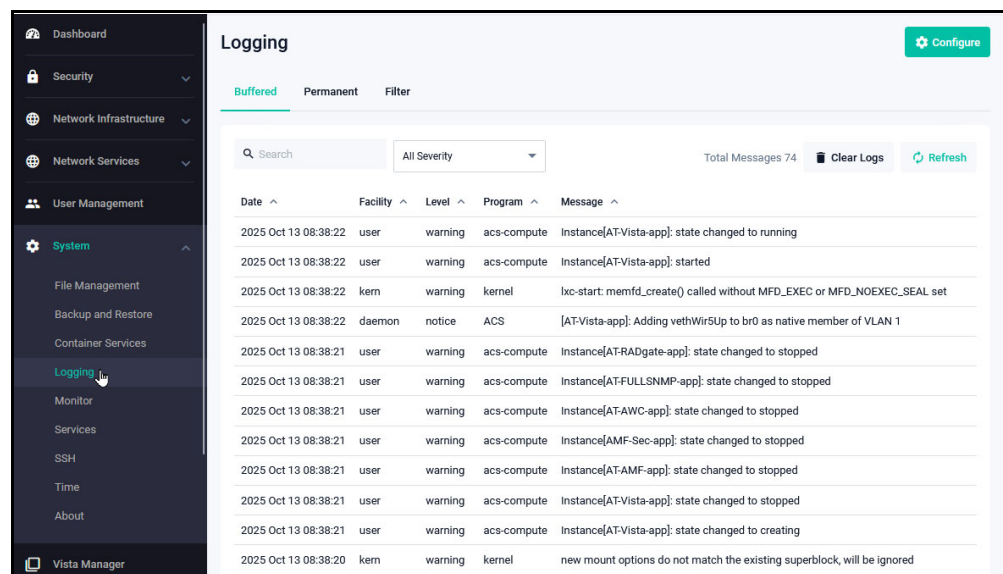
- a remote syslog server
- an email address.

You can use this to monitor the appliance and to alert a user to serious issues.

As in previous versions, the device also sends log messages to the permanent and buffered logs on the local device.

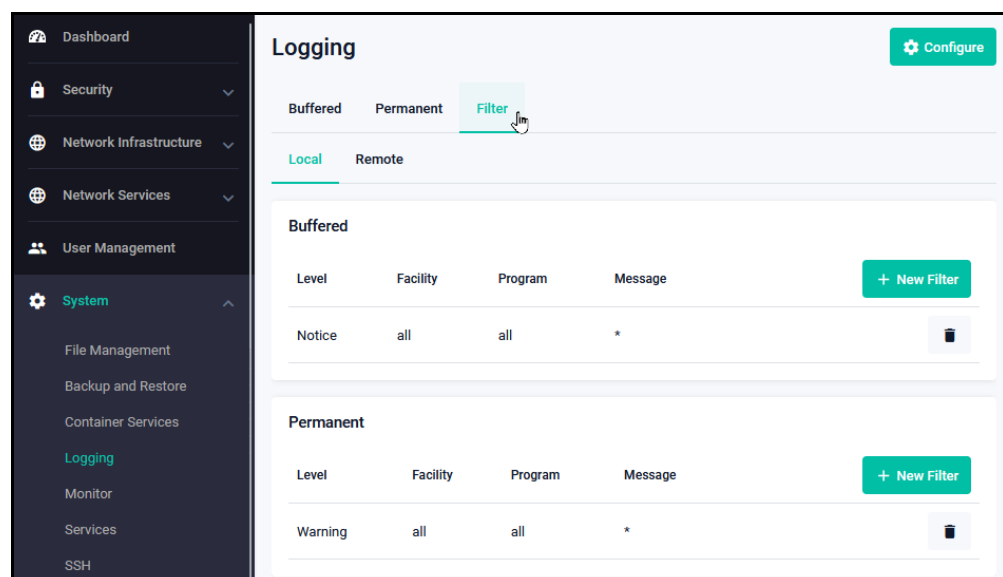
Send log messages to a remote syslog server

1. In the VST-APL menu, click **System** > **Logging**.



Date	Facility	Level	Program	Message
2025 Oct 13 08:38:22	user	warning	acs-compute	Instance[AT-Vista-app]: state changed to running
2025 Oct 13 08:38:22	user	warning	acs-compute	Instance[AT-Vista-app]: started
2025 Oct 13 08:38:22	kern	warning	kernel	lxc-start: memfd_create() called without MFD_EXEC or MFD_NOEXEC_SEAL set
2025 Oct 13 08:38:22	daemon	notice	ACS	[AT-Vista-app]: Adding vethWir5Up to br0 as native member of VLAN 1
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-RADgate-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-FULLSNMP-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-AWC-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AMF-Sec-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-AMF-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-Vista-app]: state changed to stopped
2025 Oct 13 08:38:21	user	warning	acs-compute	Instance[AT-Vista-app]: state changed to creating
2025 Oct 13 08:38:20	kern	warning	kernel	new mount options do not match the existing superblock, will be ignored

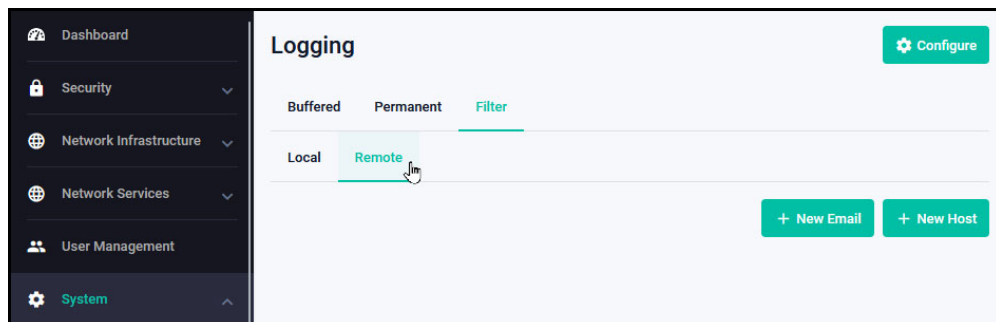
2. In the Logging page, click **Filter**.



Level	Facility	Program	Message
Notice	all	all	*

Level	Facility	Program	Message
Warning	all	all	*

3. Click **Remote**.



4. Click **+ New Host**.

Add New Host

Host

Enter Host IP Address

Level

Notice

Facility

all

Program

all

Message

*

Filter type

Include

Cancel

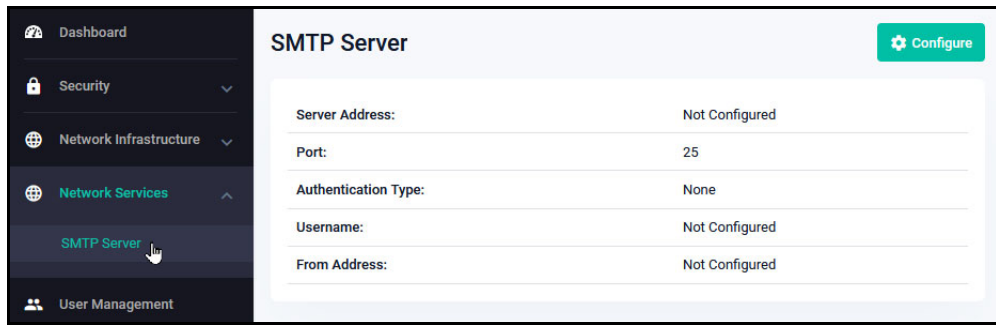
Apply

5. Enter the IP address of the syslog **Host** to send log messages to.
6. Set the filter parameters to select which messages to send (["Filter the messages to send" on page 12](#)).
7. Click **Apply**.

Configure an SMTP server.

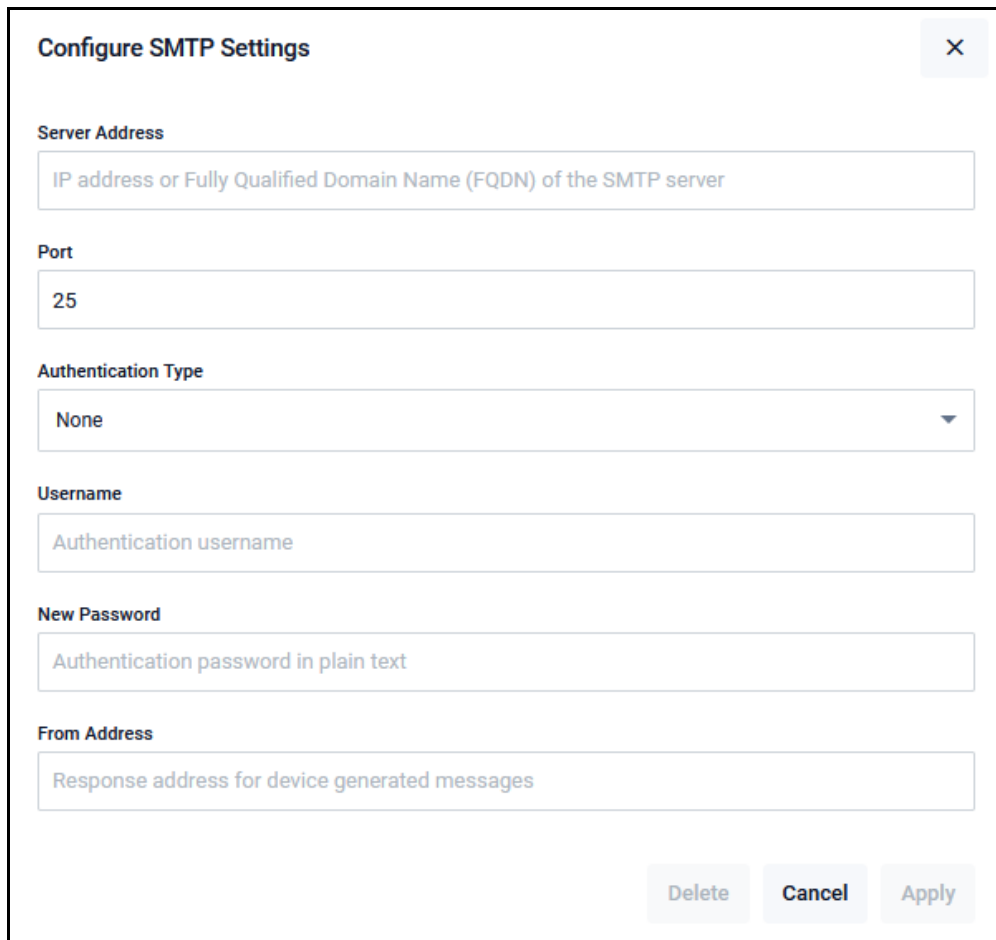
To send messages by email, you must configure an SMTP server.

1. In the VST-APL menu, click **Network Services > SMTP Server**.



SMTP Server	
Server Address:	Not Configured
Port:	25
Authentication Type:	None
Username:	Not Configured
From Address:	Not Configured

- Click the **Configure** button at the top of the SMTP Server page.



Configure SMTP Settings

Server Address
IP address or Fully Qualified Domain Name (FQDN) of the SMTP server

Port
25

Authentication Type
None

Username
Authentication username

New Password
Authentication password in plain text

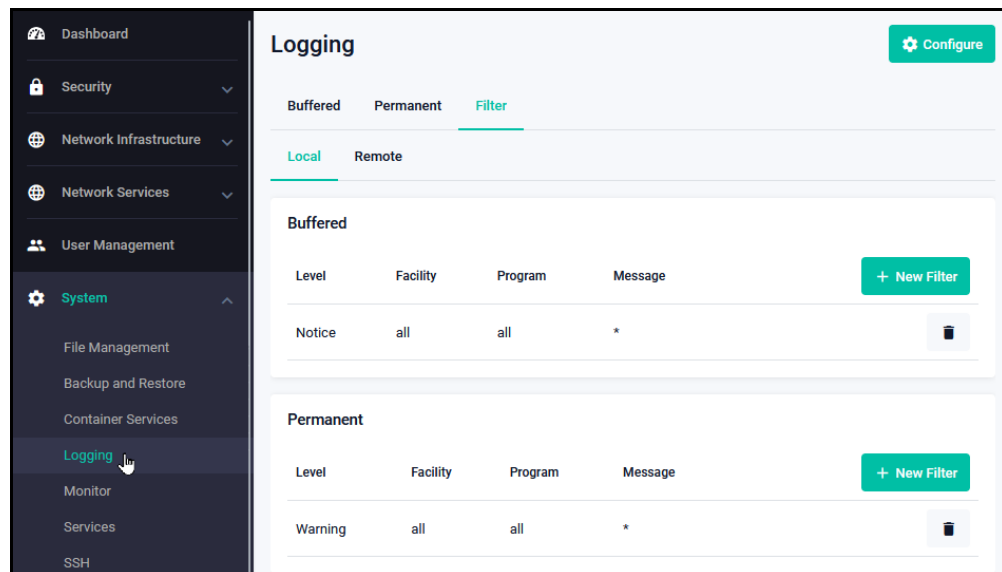
From Address
Response address for device generated messages

Delete Cancel Apply

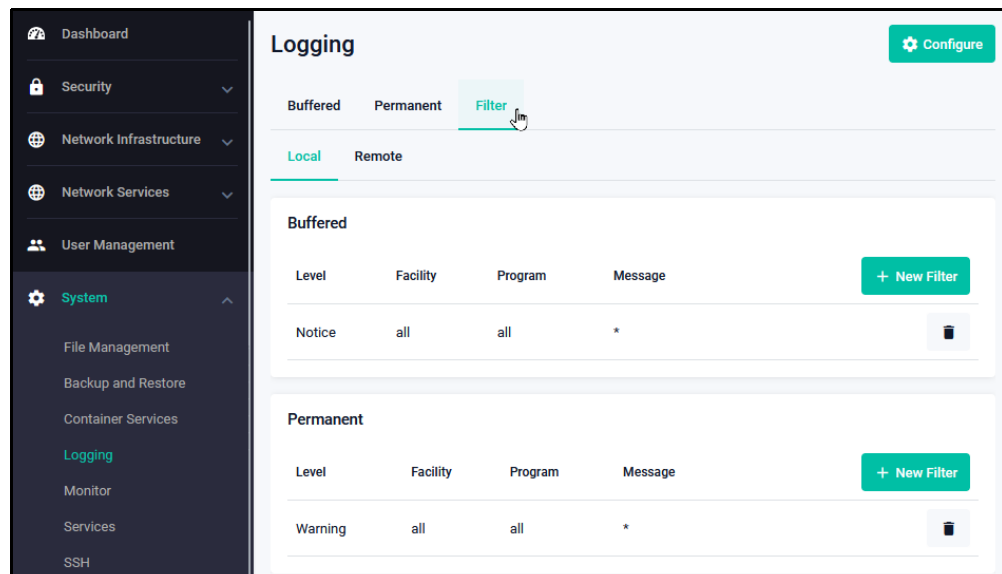
- Configure SMTP settings based on your mail server configuration:
 - « Enter the **Server Address**—the IP address or domain name of the SMTP server.
 - « Enter the **Port** to use for the SMTP server (port 25 by default).
 - « Select the **Authentication Type** to apply (None, Login, CRAM-MD5, or Plain).
 - « Enter your user name and password for the SMTP server if required for authentication.
 - « Enter the **From Address**. Log message emails will show that they were sent from this address.
- Click **Apply**.

Send log messages to an email address

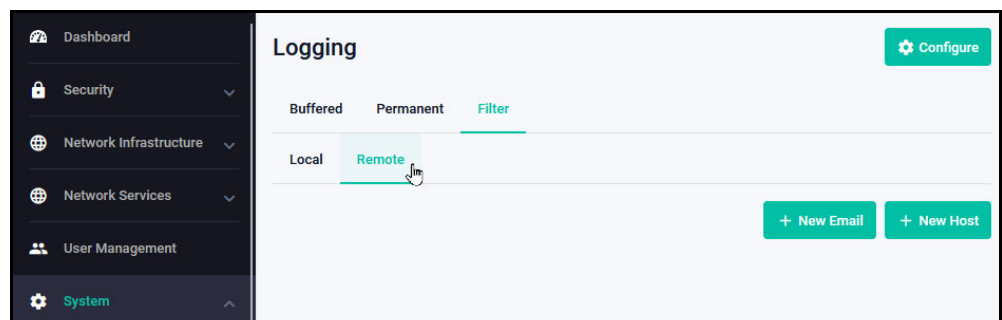
1. In the VST-APL menu, click **System** > **Logging**.



2. In the Logging page, click **Filter**.



3. Click **Remote**.



4. Click + **New Email**.

Add New Email

Email

Enter Email Address

Level

Notice

Facility

all

Program

all

Message

*

Filter type

Include

Cancel

Apply

5. Enter the **Email** address to send log messages to.
6. Set the filter parameters to select which messages to send ("[Filter the messages to send](#)" below).

Filter the messages to send

By default, the appliance will send all messages with severity level Notice or higher. To change which messages it sends, specify filter parameters. You can add more filters after the syslog or email receiver has been set up. You can also create filters for the permanent and buffered logs on the device.

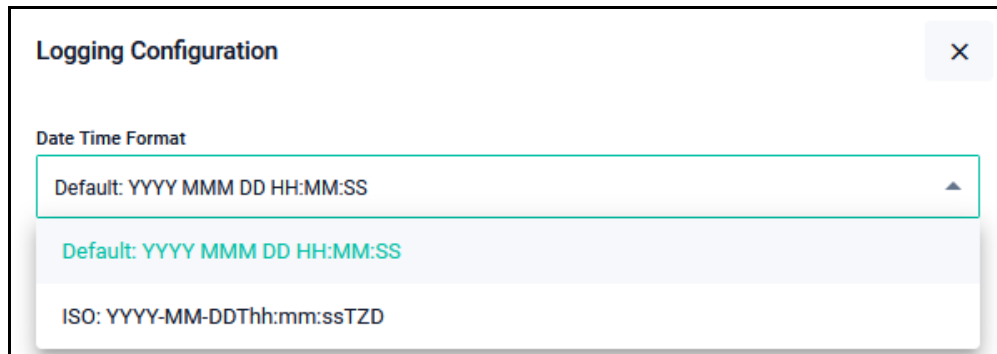
1. Select the **Level** (**Notice** by default). Messages at or above this severity level match the filter.
2. Select the **Facility** or match messages from all facilities.
3. Select the **Program** or match messages from all programs.
4. Enter a text string in the **Message** field to send only messages that include this string. Wild cards are implicit.
By default, set with an asterisk "*", all message strings are included.
5. When you first set up remote logging, set the filter to **Include**. This sets it to send all the messages that match the filtering fields above.
Once you have created this initial filter, you can refine the filtering by setting up additional filters to include or exclude particular messages.
6. Click **Apply**.

Set the date-time format for log messages

The date and time when a log message is generated will be included in all log messages in one of these formats:

- YYYY MMM DD HH:MM:SS (default)
- YYYY-MM-DDThh:mm:ssTZD (ISO standard)

To set this, click **Configure** at the top right of the Logging page, and select the format required.



The screenshot shows a 'Logging Configuration' dialog box with a close button (X) in the top right corner. Inside the dialog, there is a section titled 'Date Time Format' with a dropdown menu. The dropdown menu is open, showing two options: 'Default: YYYY MMM DD HH:MM:SS' (highlighted in light blue) and 'ISO: YYYY-MM-DDThh:mm:ssTZD'.

VST-APL Software Version 3.13.2

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 3.13.2 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 3.13.2

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

SOFTWARE	VERSION	FILENAME
VST-APL operating system	1.12.2	ATVSTAPL-1.12.2.iso
VST-APL application bundle	3.13.2	VST-APL-3.13.2.bundle
Vista Manager	3.15.1	vista-x86_64-3.15.1.app
Wireless Controller (AWC)	3.15.1	awc-x86_64-3.15.1.app
SNMP-Full	2.14.0	fullsnmp-x86_64-2.14.0.app
AMF Cloud	5.5.5-1.2	amf-x86_64-5.5.5-1.2.app
AMF Security	2.6.1	sesc-x86_64-2.6.1.app
AT-RADgate	1.1.1	radgate-x86_64-1.1.1.app

What's New in VST-APL 3.13.2

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

- “Upgraded application support” below
- “Importing certificates for applications to use” on page 16

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 Documents](#) page on our website.

Upgraded application support

Vista Manager

The Vista Manager application was upgraded to version 3.15.1. 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)

The Wireless Controller (AWC) application was upgraded to version 3.15.1. 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) plugin application was upgraded to 2.14.0. 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 5.5.5-1.2. For release notes and other technical documents for AMF Cloud, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

AMF Security (AMF-Sec)

The AMF Security application was upgraded to 2.6.1. For release notes and other technical documents for AMF-Sec, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

RADgate

The RADgate plugin application was upgraded to 1.1.1. For release notes and other technical documents for RADgate, see the [Vista Manager Network Appliance Technical Document](#) page on our website.

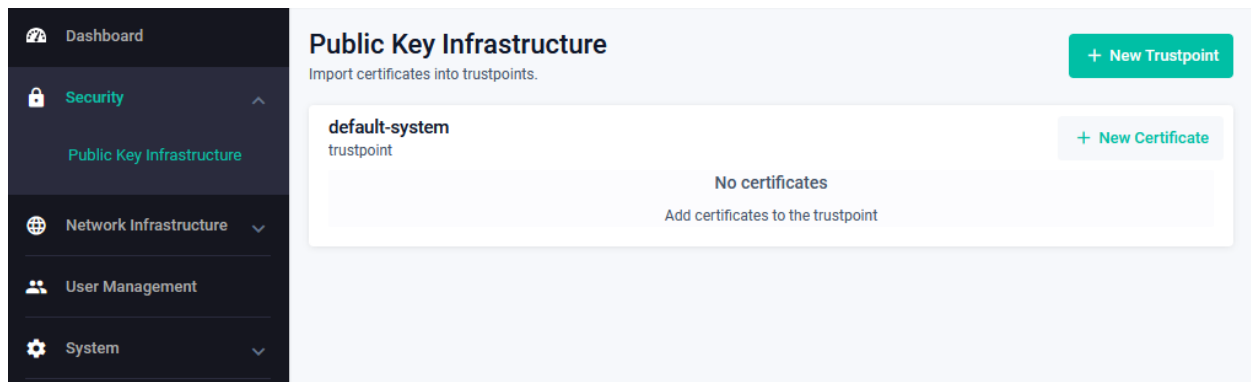
Importing certificates for applications to use

This version supports importing certificates to VST-APL. When you import certificates to be stored in the default system trustpoint, they are available for applications to use. For example, you can use this for SMTP authentication in Vista Manager EX.

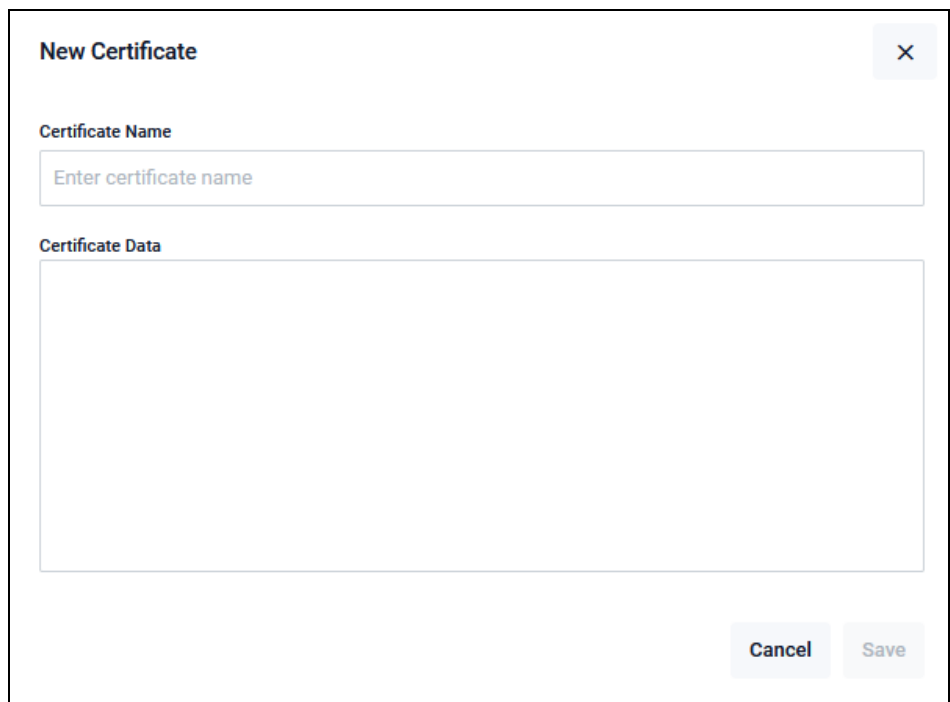
User-defined trustpoints are also supported in preparation for future features.

Import a certificate to the VST-APL default system trustpoint

1. From the VST-APL menu, navigate to **Security > Public Key Infrastructure**.



2. Click **+ New Certificate**.



3. Enter the certificate name. Copy and paste the certificate's PEM file contents into the **Certificate Data** field. Click **Save**.

To remove a certificate, click **Delete Certificate**.

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 17
- “Back up application data” on page 20
- “Upload component software” on page 21
- “Upgrade the operating system and GUI” on page 21
- “Upgrade Vista Manager, AMF Cloud, AMF Security, and RADgate applications” on page 23
- “Upgrade Wireless Controller (AWC) and SNMP (full) plugin applications” on page 25
- “Remove obsolete files from memory” on page 34

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.

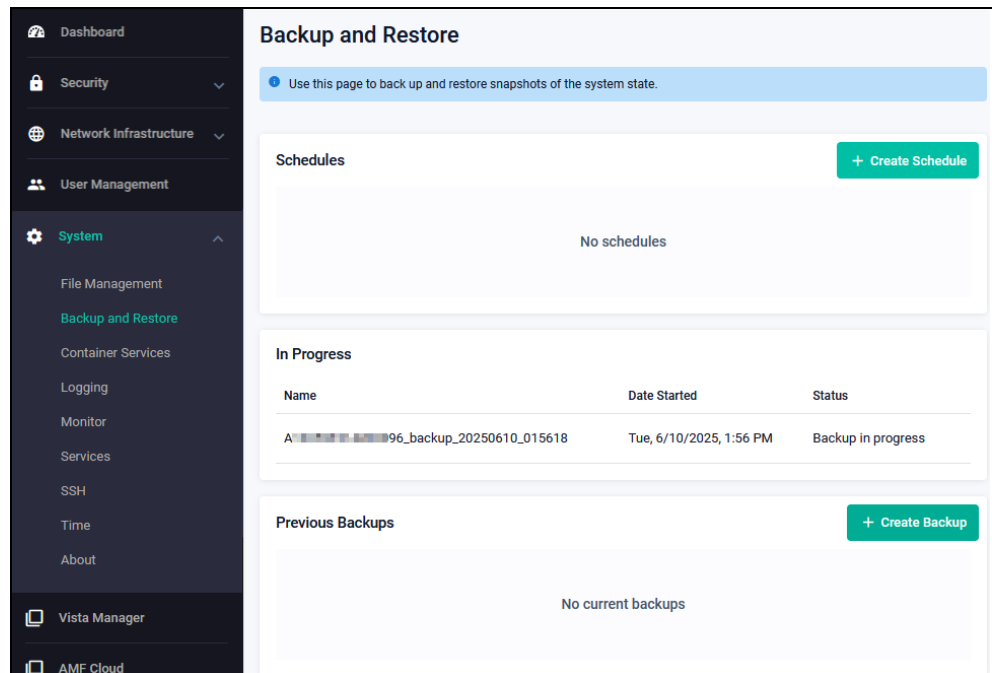
Backup and restore: back up the appliance

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.

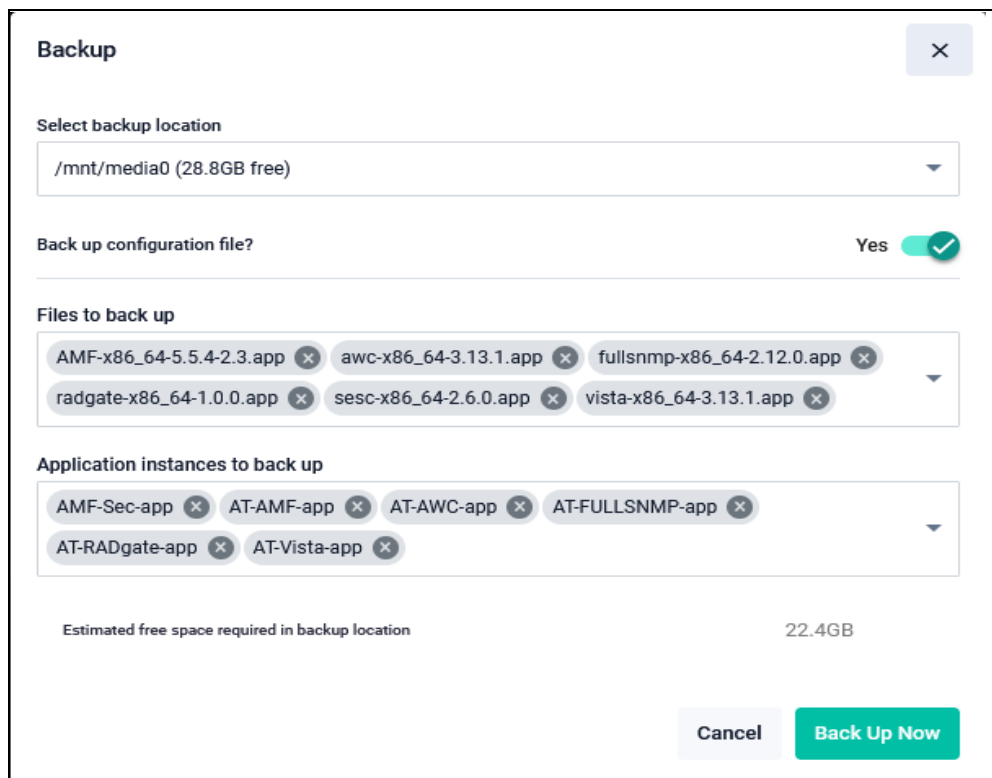
Note that if the external media file system format does not support a sufficiently large file size, the backup will fail. Choose a different external media with a file system format that supports a larger maximum file size, such as ext4.

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.



- 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.

In Progress

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

A103590000000000 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)** plugin 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 plugin 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 plugin application

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 **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.

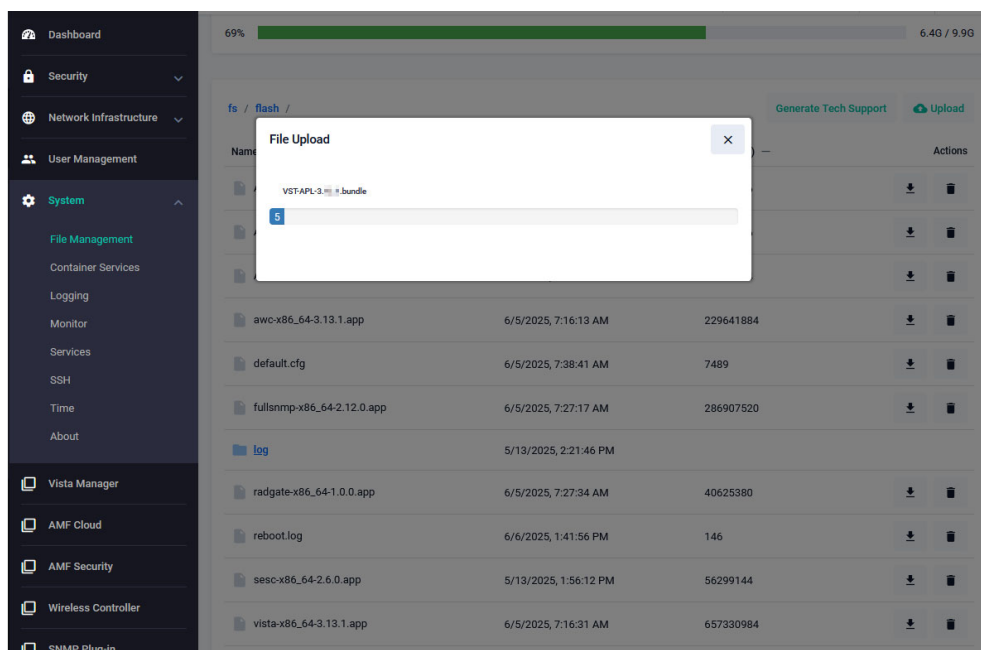
Upload component software

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.



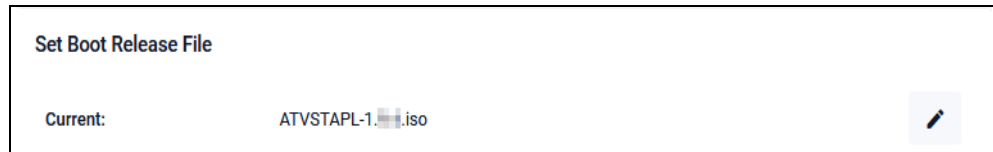
Upgrade the operating system and GUI

Before upgrading the operating system, make sure to:

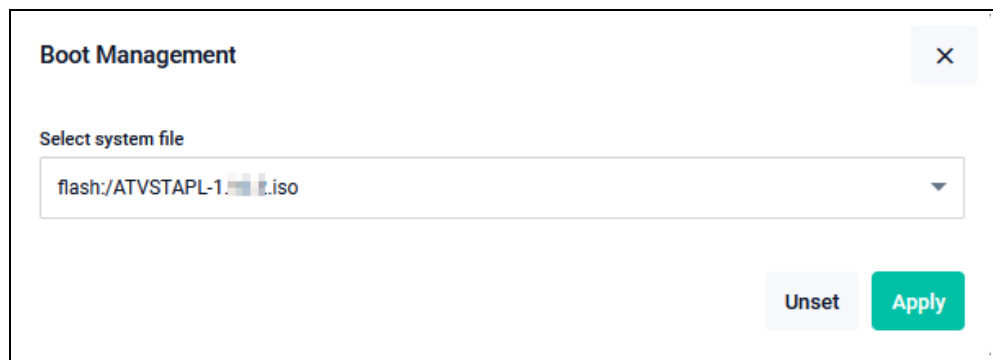
- “Back up the system” on page 17
- “Upload component software” on page 21

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.

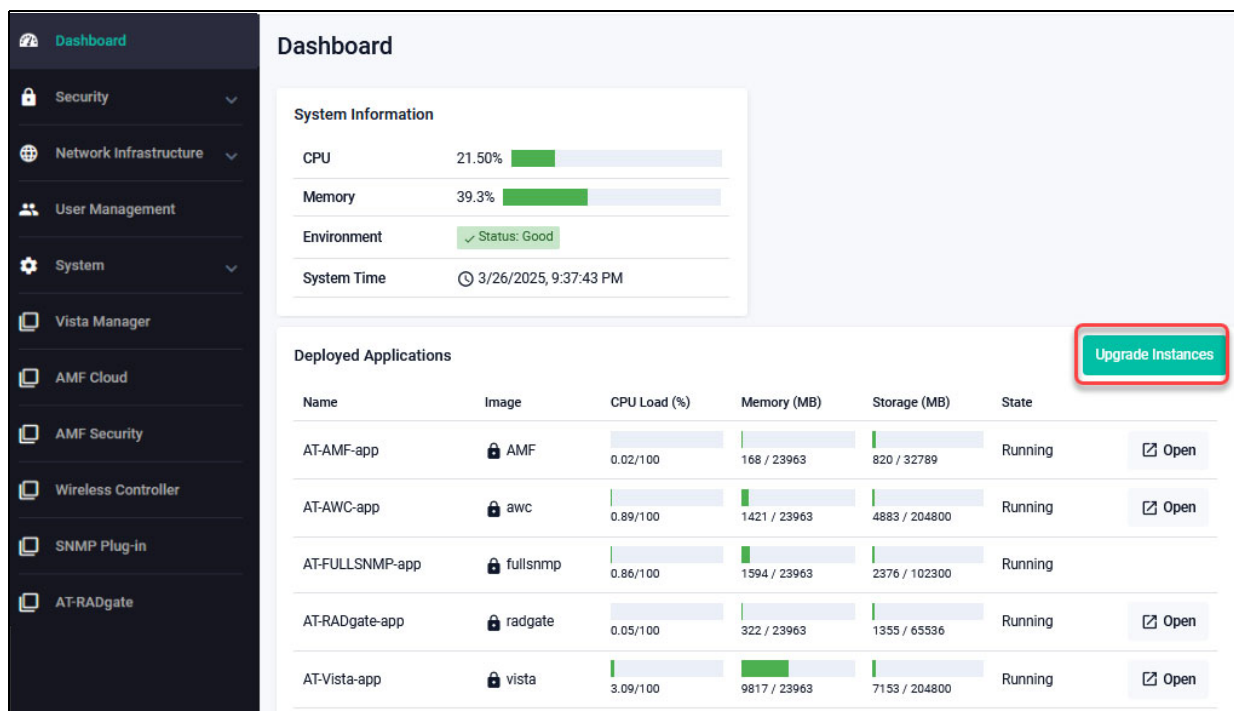
Before upgrading these applications:

- “Back up application data” on page 20
- “Upload component software” on page 21
- “Upgrade the operating system and GUI” on page 21

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.



The screenshot shows the VST-APL Web GUI Dashboard. On the left is a dark sidebar with navigation links: Dashboard, Security, Network Infrastructure, User Management, System, Vista Manager, AMF Cloud, AMF Security, Wireless Controller, SNMP Plug-in, and AT-RADgate. The main content area is titled 'Dashboard' and contains two sections. The 'System Information' section shows CPU at 21.50%, Memory at 39.3%, Environment status as 'Good', and System Time as 3/26/2025, 9:37:43 PM. The 'Deployed Applications' section contains a table with columns: Name, Image, CPU Load (%), Memory (MB), Storage (MB), State, and an 'Open' button. A red box highlights the 'Upgrade Instances' button in the top right corner of the Deployed Applications section.

Name	Image	CPU Load (%)	Memory (MB)	Storage (MB)	State	
AT-AMF-app	AMF	0.02/100	168 / 23963	820 / 32789	Running	Open
AT-AWC-app	awc	0.89/100	1421 / 23963	4883 / 204800	Running	Open
AT-FULLSNMP-app	fullsnmp	0.86/100	1594 / 23963	2376 / 102300	Running	
AT-RADgate-app	radgate	0.05/100	322 / 23963	1355 / 65536	Running	Open
AT-Vista-app	vista	3.09/100	9817 / 23963	7153 / 204800	Running	Open

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.

Upgrade Instances

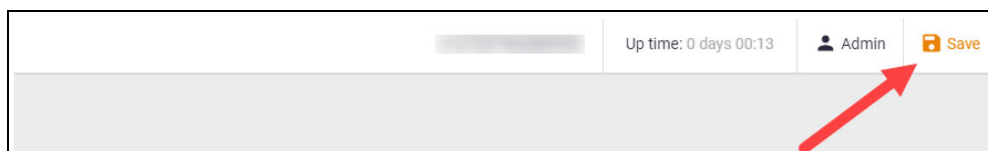
Upgrade To:

VST-APL-3.13.x

Instance	State	Image	Current Version	Target Version	Status	Action
AT-AMF-app	Running	AMF	3.12.1	3.13.x	This instance can be upgraded	☒
AT-AWC-app	Running	awc	3.12.1	3.13.x	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-FULLSNMP-app	Running	fullsnmp	3.12.1	3.13.x	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-RADgate-app	Running	radgate	3.12.1	3.13.x	This instance can be upgraded	☒
AMF-Sec-app	Running	sesc	3.12.1	3.13.x	This instance is up to date	
AT-Vista-app	Running	vista	3.12.1	3.13.x	This instance can be upgraded	☒

Upgrade Selected

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 page is orange when there are unsaved changes. Click on the button to save the changes.

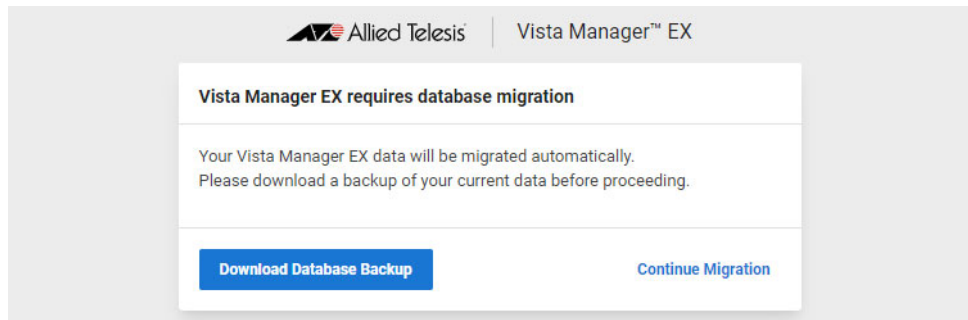


Note that if you do not save and VST-APL is rebooted, the upgraded applications will revert to the old APP images and fail to start. You will see 'configured image "<image-name>" doesn't exist' messages if this happens.

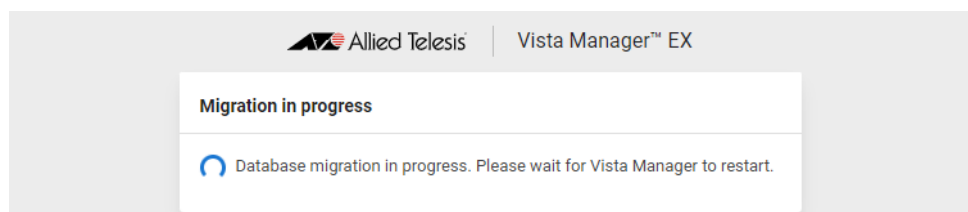
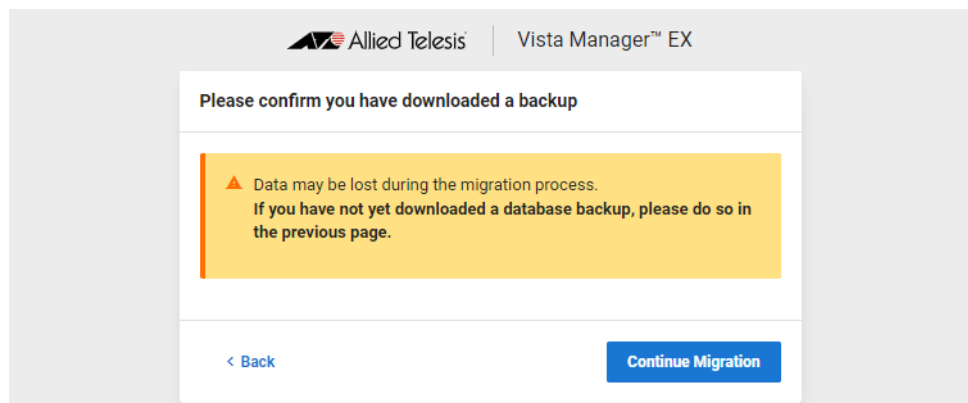
Note that the earlier versions of the applications show as unsigned even though they are signed.



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) plugin 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 17
- “Back up application data” on page 20
- “Upload component software” on page 21
- “Upgrade the operating system and GUI” on page 21

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

- Wireless Controller (AWC) plugin
- SNMP (Full) plugin

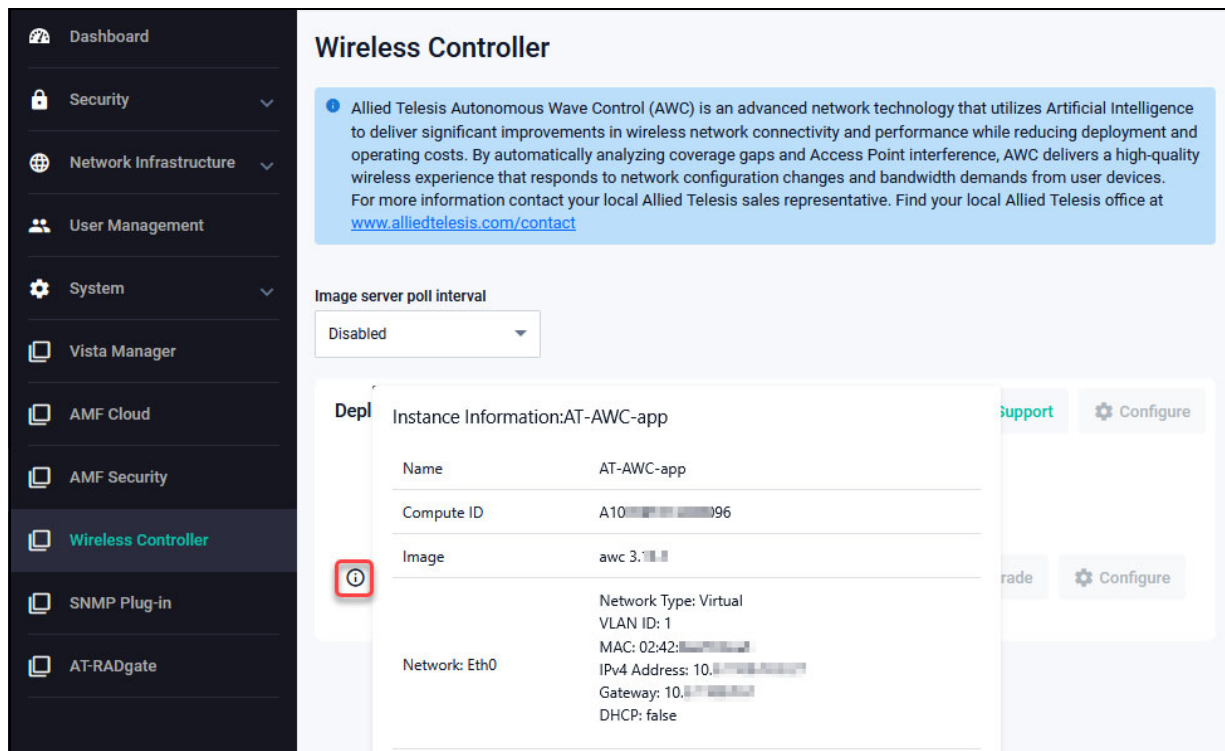
Instead, use these procedures:

- “Destroy and recreate application instances” on page 26
- “Re-register plugins in Vista Manager” on page 29
- “Restore application data from back-up” on page 31

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-AWC-app	
Name	AT-AWC-app
Compute ID	A10 [REDACTED]
Image	awc 3. [REDACTED]
Network: Eth0	Network Type: Virtual VLAN ID: 1 MAC: 02:[REDACTED] IPv4 Address: 10.[REDACTED] Gateway: 10.[REDACTED] 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.

- In the **Application Configuration** dialog box, select the new **Image Version**. Fill in the storage and the network data you recorded. The recommended storage values are:

AWC: 204 800 MB

SNMP Full: 102 400 MB

Application Configuration

×

Compute ID

A10 96

▼

Image Version

3.1

▲

awc-3.1

awc-3.1

Storage Size (MB)

204800

Advanced Settings

▼

Network

1 Network / 0 DNS Servers

▲

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

☒ Use DHCP

+ Add Network

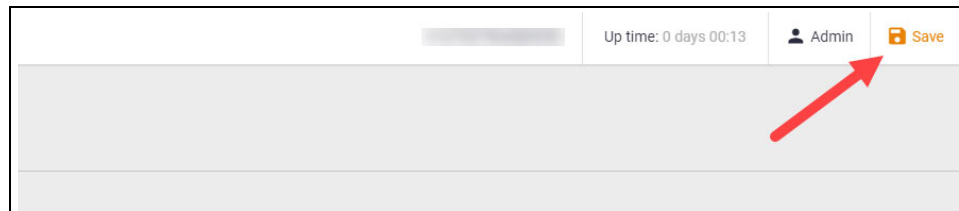
+ Add DNS Server

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.

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 page 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.

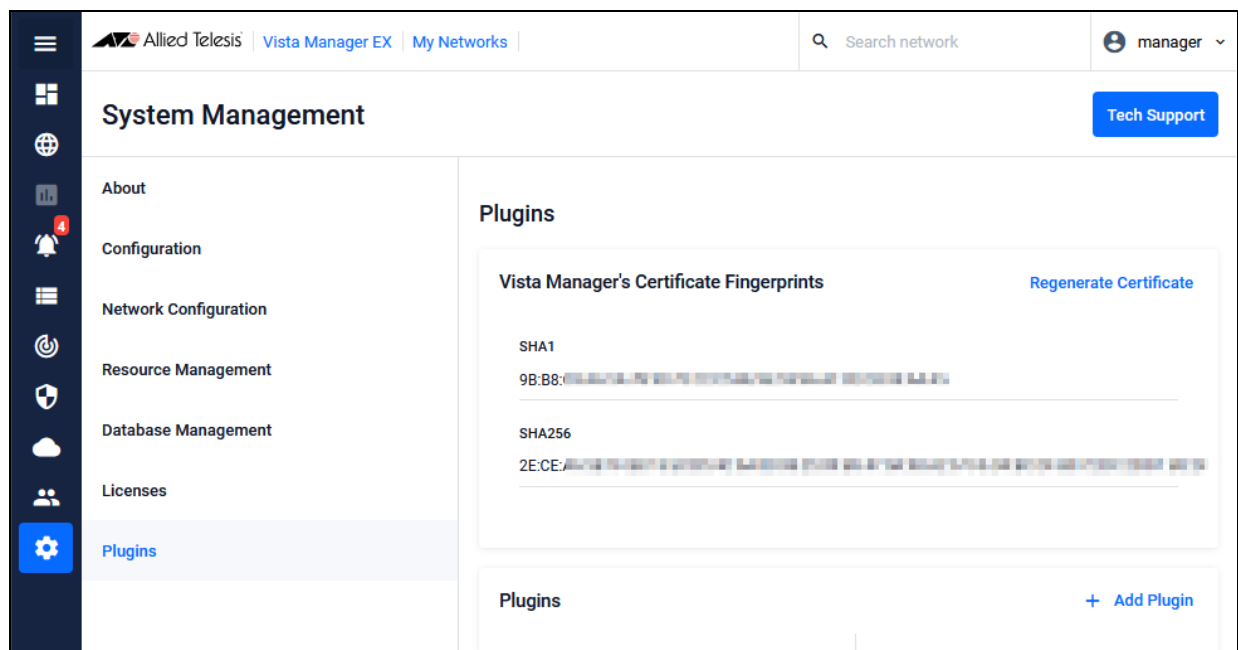
Re-register plugins in Vista Manager

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

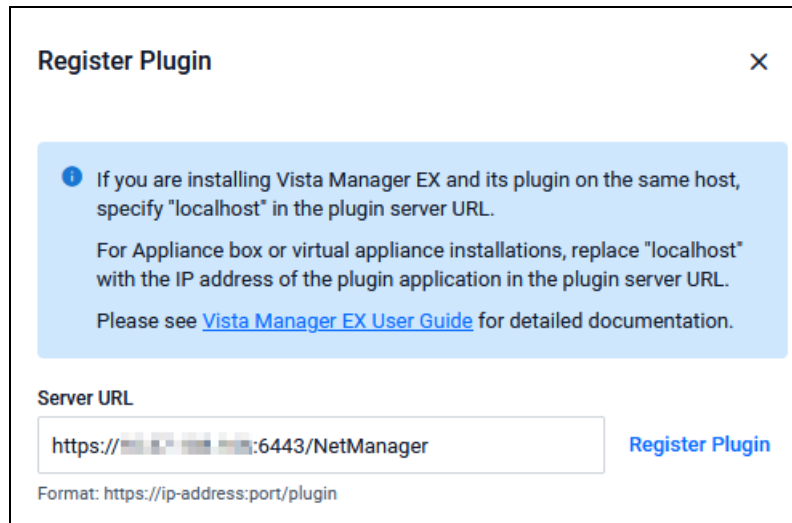
- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plugins.

11. In the Vista Manager EX GUI, navigate to **System Management > Plugins**.



12. Click **+Add Plugin**.



The dialog box titled "Register Plugin" contains a blue information box with the following text:

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.

Below the information box, there is a "Server URL" label, a text input field containing "https://[redacted]:6443/NetManager", and a "Register Plugin" button. At the bottom, the format is specified as "Format: https://ip-address:port/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

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

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

SHA256

Confirm Fingerprints

14. 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 ("[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 plugin](#)" on page 32
- "[Restore system data for the SNMP plugin](#)" on page 33

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 23](#), 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:

15. Log in to Vista Manager EX using an Admin account.
16. In the Vista Manager EX menu, navigate to **AWC plugin > 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.

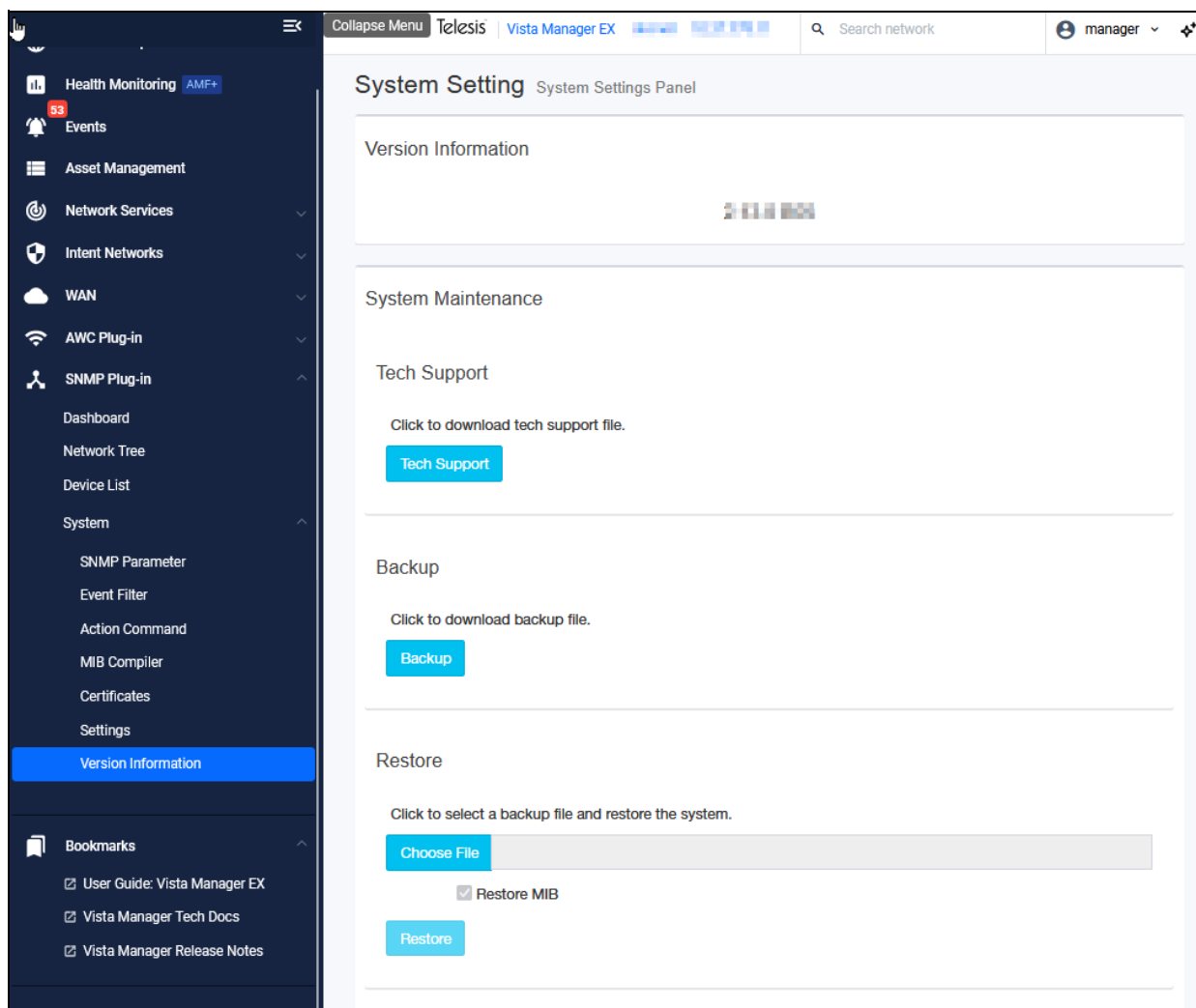
19. Click **OK**.
20. Confirm.
21. After it has finished restoring, a dialog box shows that restoration is complete. Click **OK**.

Restore system data for the SNMP plugin

To restore application data from the backup for the SNMP plugin 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 plugin** 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 plugin 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.