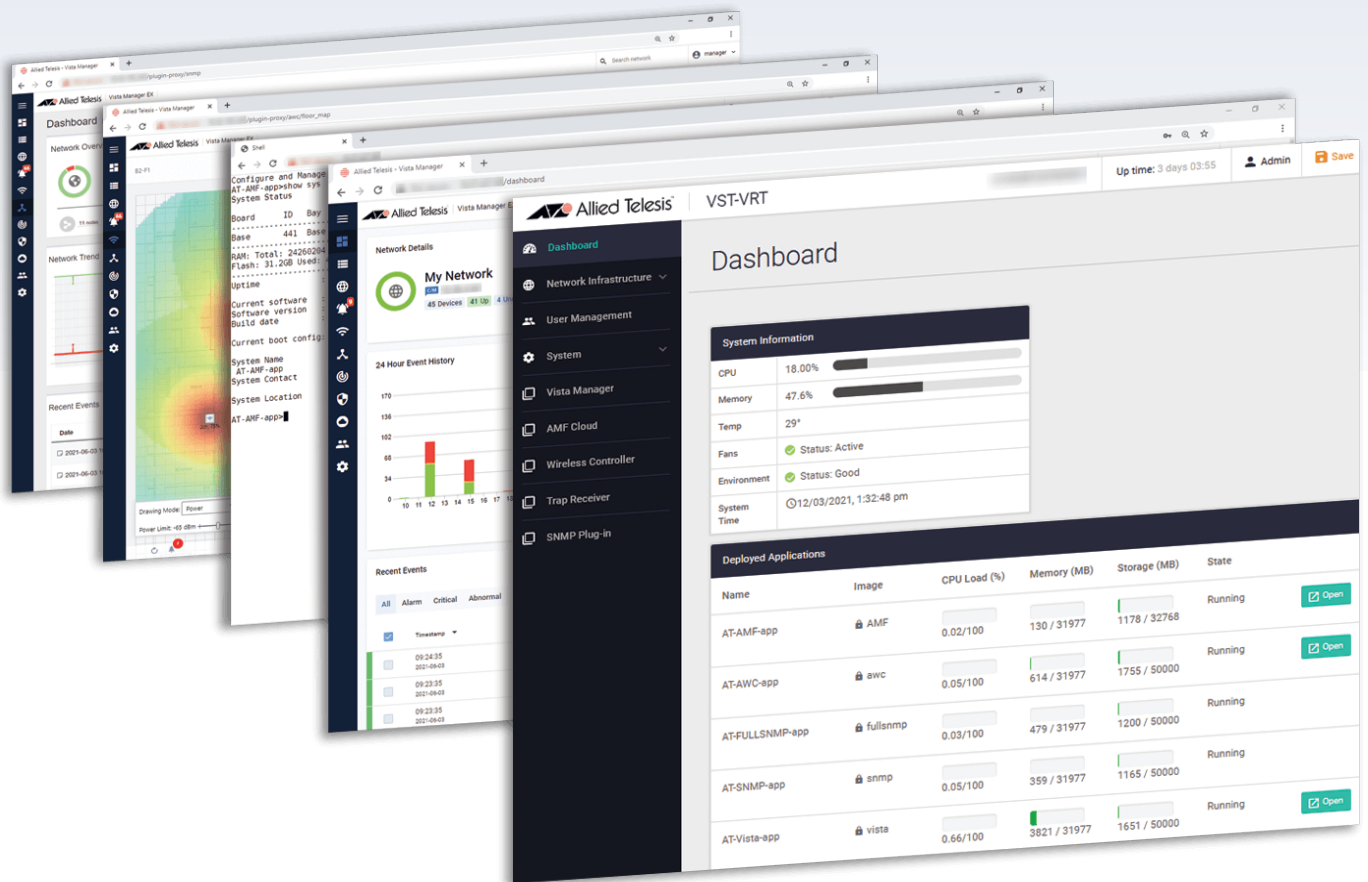


# Release Note for AT-VST-VRT Vista Manager Virtual 3.11.x



» VST-VRT 3.11.1 (Vista Manager 3.13.1)

## Acknowledgments

©2025 Allied Telesis Inc. All rights reserved. No part of this publication may be reproduced without prior written permission from Allied Telesis, Inc.

Allied Telesis, Inc. reserves the right to make changes in specifications and other information contained in this document without prior written notice. The information provided herein is subject to change without notice. In no event shall Allied Telesis, Inc. be liable for any incidental, special, indirect, or consequential damages whatsoever, including but not limited to lost profits, arising out of or related to this manual or the information contained herein, even if Allied Telesis, Inc. has been advised of, known, or should have known, the possibility of such damages.

Allied Telesis, AlliedWare Plus, Allied Telesis Management Framework, EPSRing, SwitchBlade, VCStack and VCStack Plus are trademarks or registered trademarks in the United States and elsewhere of Allied Telesis, Inc. Adobe, Acrobat, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. Additional brands, names and products mentioned herein may be trademarks of their respective companies.

## 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/](http://www.adobe.com/)

---

## Contents

<b>VST-VRT Software Version 3.11.1 .....</b>	<b>4</b>
Introduction .....	4
Application support in VST-VRT 3.11.1 .....	4
What's New in VST-VRT 3.11.1 .....	5
New features and enhancements .....	5
<b>Important Considerations Before Upgrading .....</b>	<b>8</b>
<b>Upgrading VST-VRT .....</b>	<b>9</b>
Backup application data .....	9
Upgrade the VST-VRT operating system and GUI on Microsoft Hyper-V .....	9
Upgrade Vista Manager, AMF Cloud, and AMF Security applications .....	12
Upgrade Wireless Controller (AWC) and SNMP (full) plug-in applications .....	16

# VST-VRT Software Version 3.11.1

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

## Introduction

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

This release note describes Vista Manager Virtual running VST-VRT software version 3.11.1 and the new software features in this version.

This version of VST-VRT supports the following as a virtual platform:

- Microsoft Hyper-V 2022 and 2019.

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

The upgrade files are available from [Allied Telesis Support Portal](#). The files are named **VST\_VRT-3.11.1.iso** and **VST\_VRT-3.11.1.vhd**.

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

## Application support in VST-VRT 3.11.1

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

SOFTWARE	VERSION	
VST-VRT Operating System	1.9.4	
Vista Manager	3.13.1	
Wireless Controller (AWC)	3.13.1	
SNMP-Full	2.12.0	
AMF Cloud	5.5.4-2.3	
AMF Security	2.6.0	
RADgate	1.0.0	The AT-RADgate RADIUS server is not yet available in all regions. See your Allied Telesis representative for more information.

## What's New in VST-VRT 3.11.1

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

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

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

### Upgraded application versions

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

#### Vista Manager

The Vista Manager application was upgraded to version 3.13.1. 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 3.13.1. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

#### SNMP

The SNMP (full SNMP) plug-in application was upgraded to 2.12.0. For release notes for Vista Manager EX and its AWC and SNMP plugins, see the [Vista Manager EX Release Notes](#) page on our website.

#### AMF Cloud

The AMF Cloud application was upgraded to version 5.5.4-2.3. For release notes and other technical documents for AMF Cloud, see the [Vista Manager Virtual Technical Document](#) page on our website.

## New features and enhancements

### Microsoft Hyper-V support added

From this version, VST-VRT now supports Microsoft Hyper-V 2022 and 2019 as a virtual platform.

For information about installing and configuring your VST-VRT environment on Hyper-V, please refer to the Vista Manager Virtual (VST-VRT) User Guide, available from the [Vista Manager Virtual \(VST-VRT\) Technical Documents](#) page.

## New AT-RADgate (external RADIUS Server) application support

The AT-RADgate RADIUS server is not yet available in all regions. See your Allied Telesis representative for more information.

This VST-VRT version includes support for the new application AT-RADgate, version 1.0.0. This application can now be run on the VST-VRT. The image for the RADgate app is included in the VST-VRT bundle file for this version.

The RADgate application allows you to authenticate users via a remote RADIUS server, and provides a RADIUS Authentication Service for controlling security policies of edge devices connecting to your networks.

AT-RADgate complies with RFC 2865, Remote Authentication Dial In User Service (RADIUS) providing these features:

- It authenticates and authorizes clients by referring to registered authentication policies, stored either in Active Directory or in the RADgate app.
- It monitors the connection status of the clients associated with endpoints.
- When you change the authentication policy, it applies the changes to authorized clients immediately.
- You can use it to delegate user authentication to Active Directory Domain Controllers.
- It sends client state changes as machine-readable syslog messages.

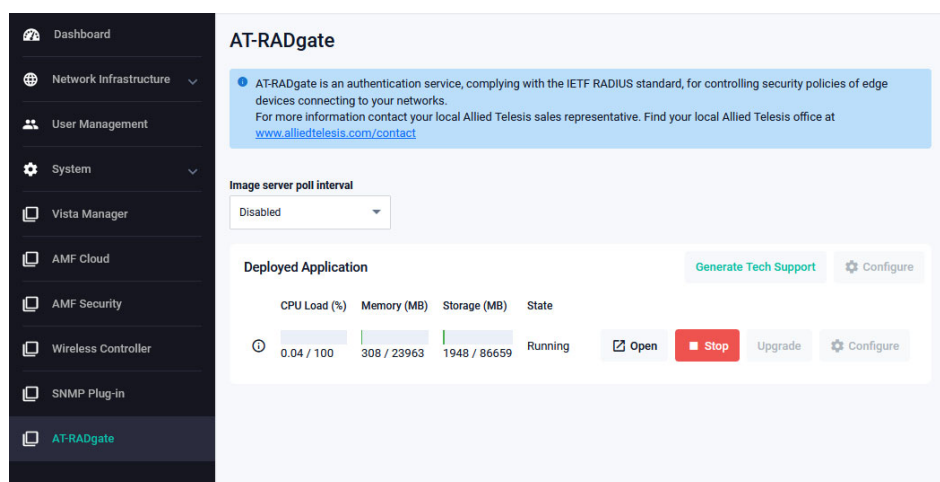
AT-RADgate requires a feature license. For licensing information, see the datasheet for your product, or contact your local Allied Telesis sales representative.

### Activate and configure the RADgate application

1. To activate and configure the RADgate application on VST-VRT, follow the instructions for activating apps in the Vista Manager Virtual (VST-VRT) User Guide, available from the [Vista Manager Virtual \(VST-VRT\) Technical Documents](#) page. To access the app, click **AT-RADgate** in the VST-VRT GUI menu.

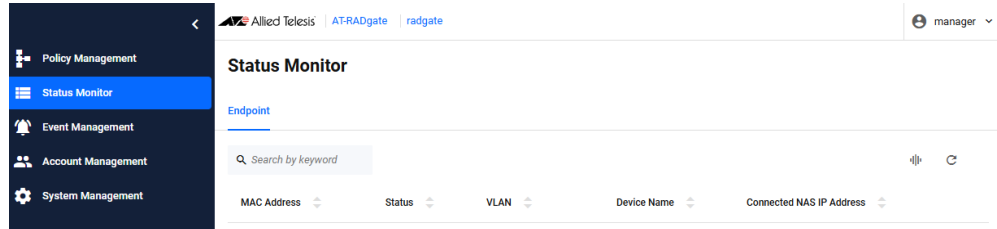
We recommend setting the storage limit for the RADgate app to 65536 MB.

**Figure 1: AT-RADgate application page in the VST-VRT GUI**



2. To register AT-RADgate as a plugin to Vista Manager, see the Vista Manager EX Release Note, available from [Vista Manager Virtual Technical Document](#) page on our website.
3. To configure the RADIUS authentication service, open the AT-RADgate application by clicking the **Open** button on the AT-RADgate page in the VST-VRT GUI.

#### AT-RADgate Status Monitor page



For more information:

- For more information about RADgate, [Vista Manager Virtual Technical Document](#) page on our website.

## Important Considerations Before Upgrading

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

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

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

- Oracle VM VirtualBox version 6.1 and version 5.2

## Upgrading VST-VRT

This section describes how to:

- “Backup application data” below
- “Upgrade the VST-VRT operating system and GUI on Microsoft Hyper-V” below
- “Upgrade Vista Manager, AMF Cloud, and AMF Security applications” on page 12
- “Upgrade Wireless Controller (AWC) and SNMP (full) plug-in applications” on page 16

### Backup application data

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

If you are using the **Wireless Controller (AWC)** or the **SNMP (full)** plug-in applications, you must back up these applications before proceeding. This is because the process destroys and recreates the application instance. See [“Upgrade Wireless Controller \(AWC\) and SNMP \(full\) plug-in applications” on page 16](#) for information on backing up these applications before you continue with following section.

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

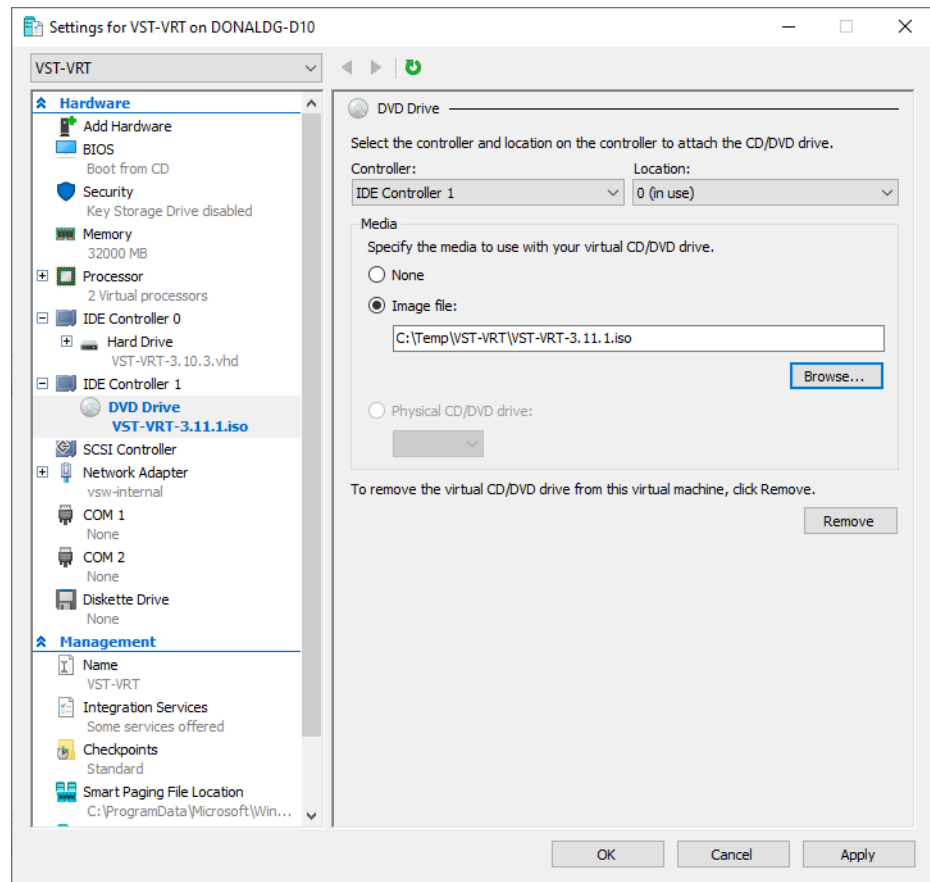
There are two different upgrade methods, depending on how you installed VST-VRT. Follow the appropriate instructions below.

### When installing using the .iso image method

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

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

5. Select Hardware > IDE Controller 1 > DVD Drive on the left pane, then specify the new .iso image file in the Image file field. Click OK.



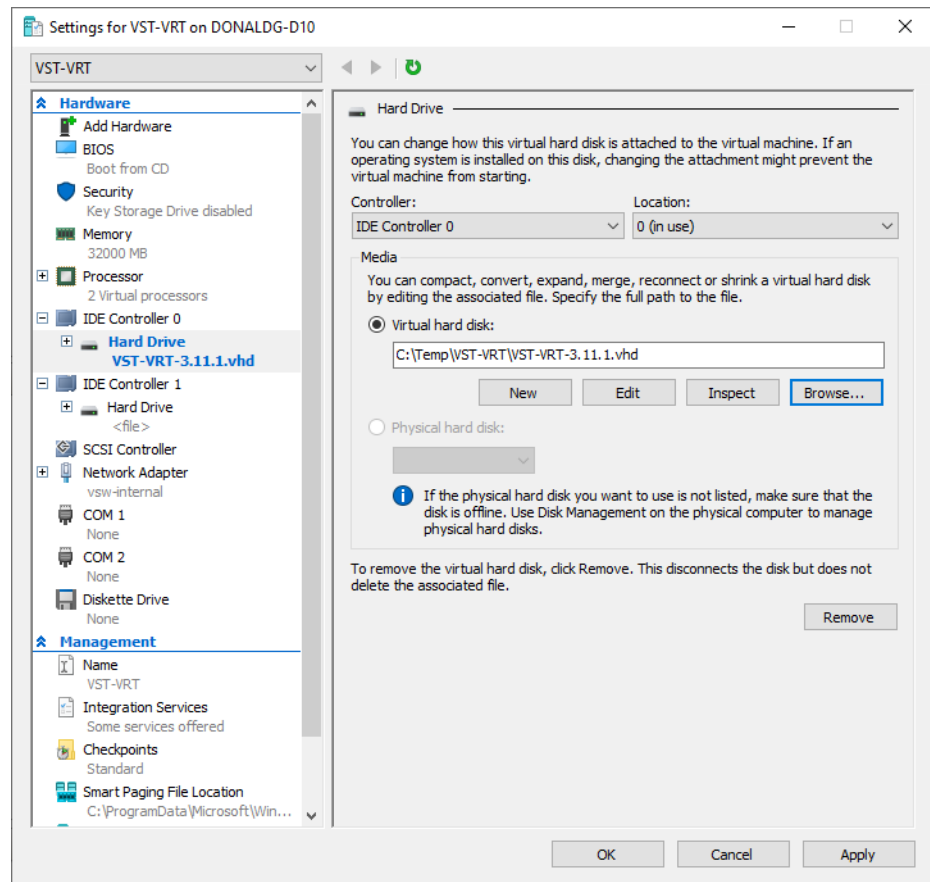
6. Right-click the virtual machine in the Virtual Machines pane of Hyper-V Manager, and select Start from the context menu.
7. The product will start with the new version. This completes updating the firmware of this product using the ISO image method.

## When installing using the .vhd image method

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

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

5. Select Hardware > IDE Controller 0 > Hard Drive on the left pane, then specify the new .vhd file in the Virtual hard disk field. Click OK.



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

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

VST-VRT version 3.4.1 and later (VST-VRT Operating System 1.5.1 and later) supports simpler upgrade of these applications as a bundle. This ensures they are compatible with each other and with the operating system version.

Before upgrading these applications:

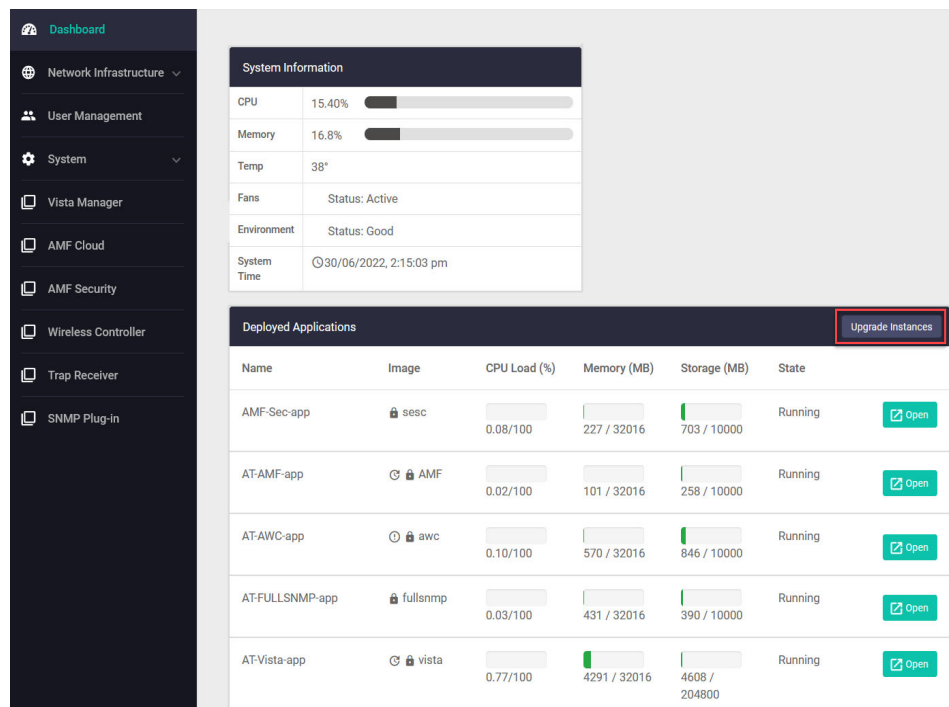
- We recommend backing up application data for all applications regularly, and before upgrading the applications.
- [“Upgrade the VST-VRT operating system and GUI on Microsoft Hyper-V” on page 9](#)

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

- Vista Manager
- AMF Cloud
- AMF Security

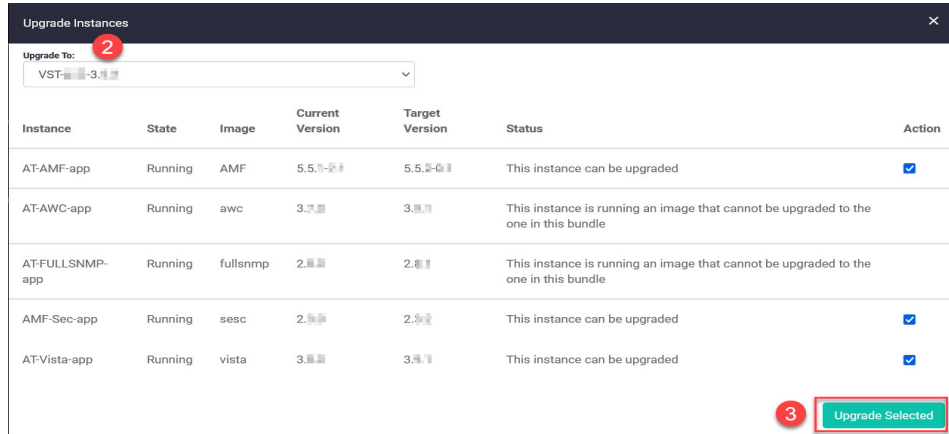
Due to a recent design upgrade, your device's GUI may look different to these images.

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



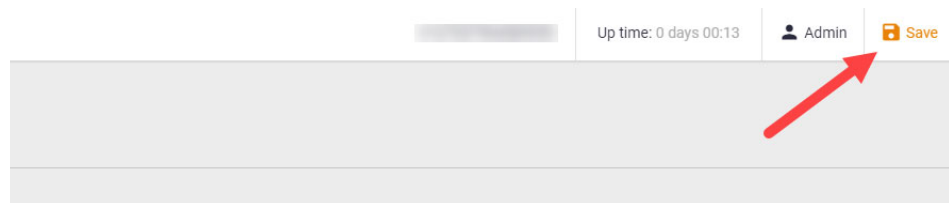
- Make sure the correct version of the bundle file is displayed in the **Upgrade to** field at the top left of the upgrade instances panel. If not, use the drop down list to select the correct version.

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



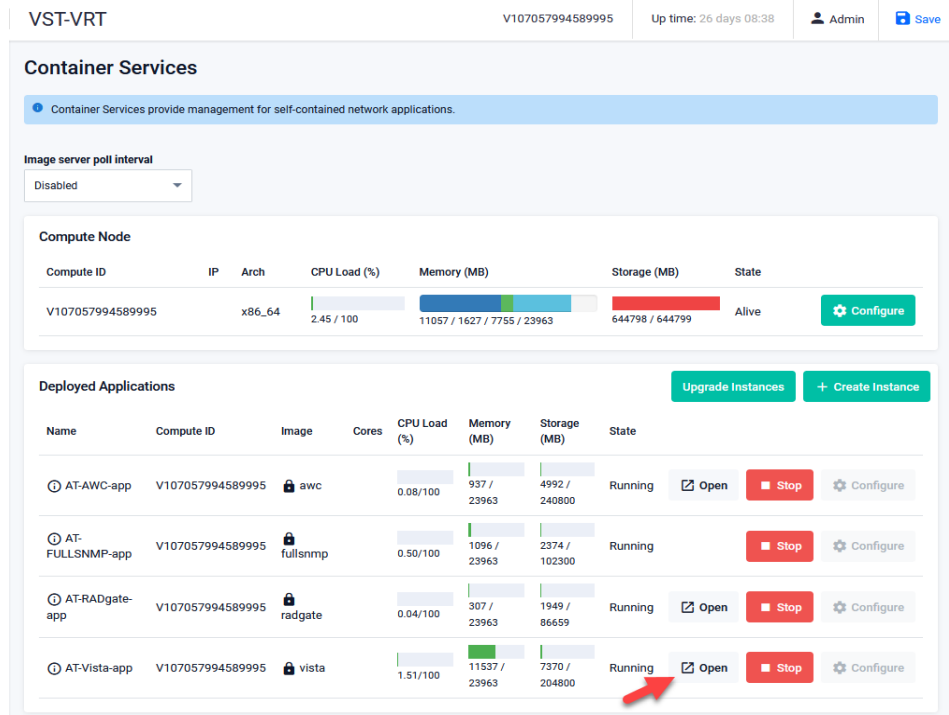
Instance	State	Image	Current Version	Target Version	Status	Action
AT-AMF-app	Running	AMF	5.5.1-0.1	5.5.2-0.1	This instance can be upgraded	<input checked="" type="checkbox"/>
AT-AWC-app	Running	awc	3.7	3.8	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-FULLSNMP-app	Running	fullsnmp	2.11	2.12	This instance is running an image that cannot be upgraded to the one in this bundle	
AMF-Sec-app	Running	sesc	2.11	2.12	This instance can be upgraded	<input checked="" type="checkbox"/>
AT-Vista-app	Running	vista	3.11	3.12	This instance can be upgraded	<input checked="" type="checkbox"/>

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



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

- In the VST-VRT GUI menu, navigate to **System > Container Services** and open Vista Manager by clicking the **Open** button next to AT-Vista-app on the Container Services page.



VST-VRT V107057994589995 Up time: 26 days 08:38 Admin Save

### Container Services

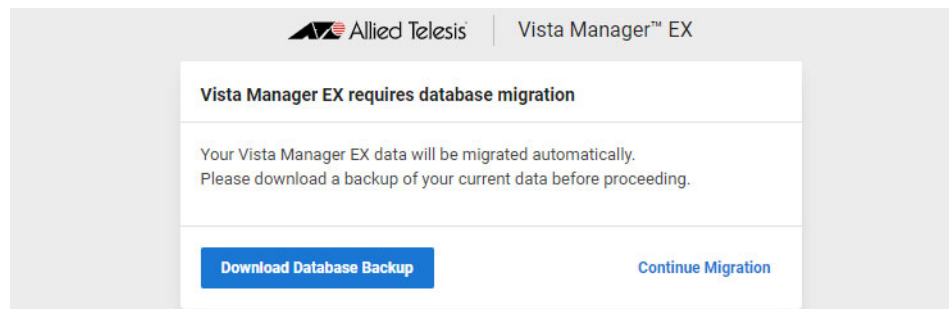
Container Services provide management for self-contained network applications.

Image server poll interval: Disabled

Compute Node						
Compute ID	IP	Arch	CPU Load (%)	Memory (MB)	Storage (MB)	State
V107057994589995		x86_64	2.45 / 100	11057 / 1627 / 7755 / 23963	644798 / 644799	Alive <a href="#">Configure</a>

Deployed Applications								<a href="#">Upgrade Instances</a>	<a href="#">+ Create Instance</a>	
Name	Compute ID	Image	Cores	CPU Load (%)	Memory (MB)	Storage (MB)	State			
AT-AWC-app	V107057994589995	awc		0.08/100	937 / 23963	4992 / 240800	Running	<a href="#">Open</a>	<a href="#">Stop</a>	<a href="#">Configure</a>
AT-FULLSNMP-app	V107057994589995	fullsnmp		0.50/100	1096 / 23963	2374 / 102300	Running		<a href="#">Stop</a>	<a href="#">Configure</a>
AT-RADgate-app	V107057994589995	radgate		0.04/100	307 / 23963	1949 / 86659	Running	<a href="#">Open</a>	<a href="#">Stop</a>	<a href="#">Configure</a>
AT-Vista-app	V107057994589995	vista		1.51/100	11537 / 23963	7370 / 204800	Running	<a href="#">Open</a>	<a href="#">Stop</a>	<a href="#">Configure</a>

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



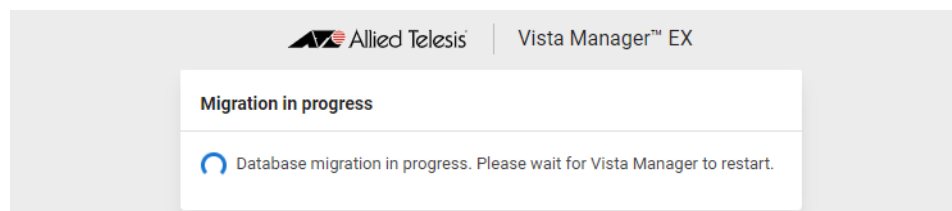
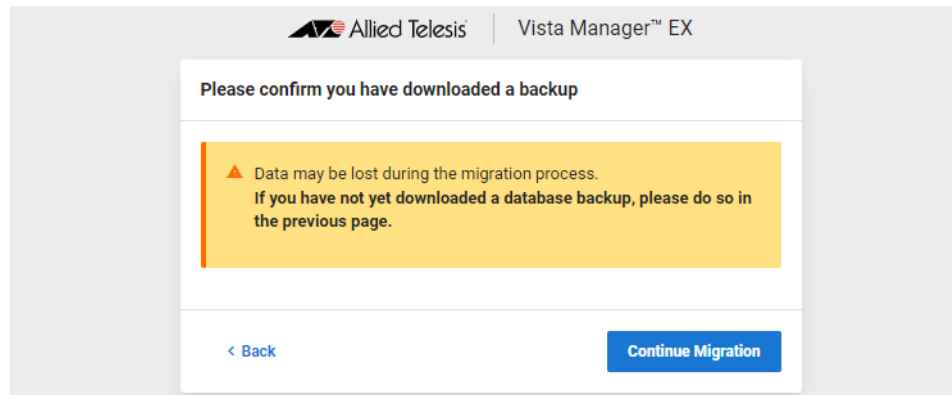
Allied Telesis Vista Manager™ EX

**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) plug-in applications

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

Before upgrading these applications,

- [“Upgrade the VST-VRT operating system and GUI on Microsoft Hyper-V” on page 9.](#)

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

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

Instead, use these procedures:

- [“Back up application data” below](#)
- [“Destroy and recreate the application instances” on page 17](#)
- [“Re-register plug-ins in Vista Manager” on page 19](#)
- [“Restore application data from back-up” on page 20.](#)

### Back up application data

Before upgrading the Wireless Controller and SNMP Full applications, you must back up their system data. 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

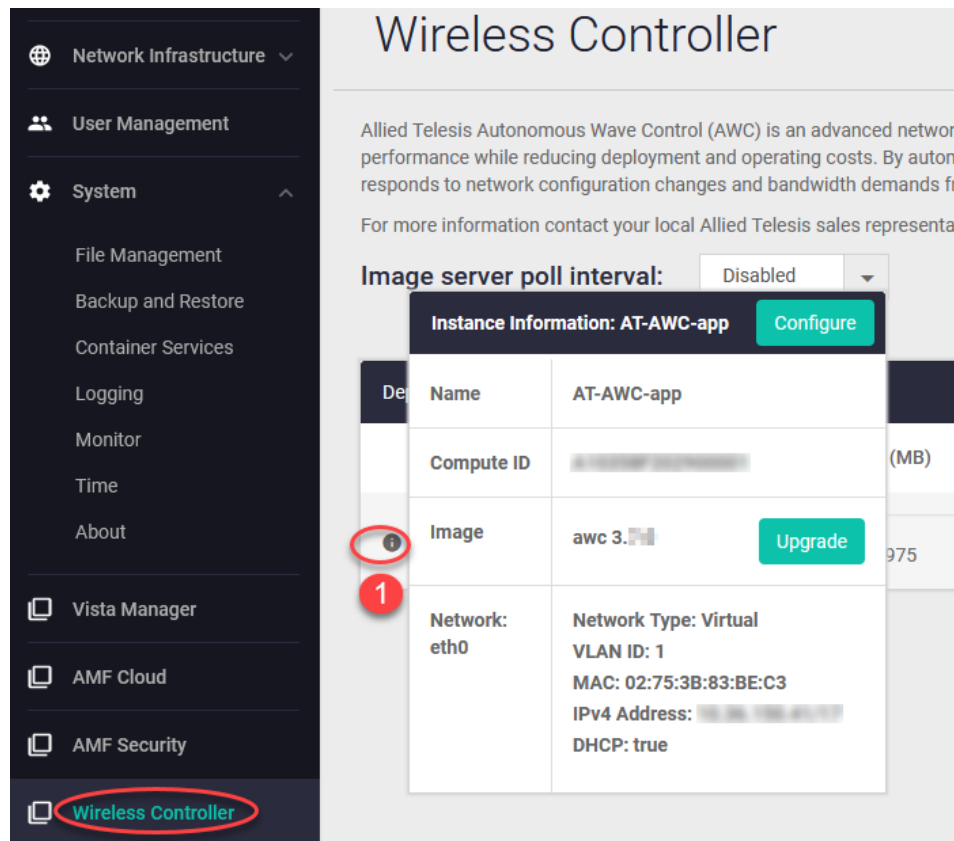
1. Log in to Vista Manager EX using an Admin account.

2. Click the **SNMP Plug-in** icon in the left menu of the Vista Manager application, then click the **System** menu.
3. In the **System Maintenance** panel of the **System Setting** page, click the **Backup** button. This creates a backup of application data.

## Destroy and recreate the application instances

In the VST-VRT GUI, follow these steps.

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



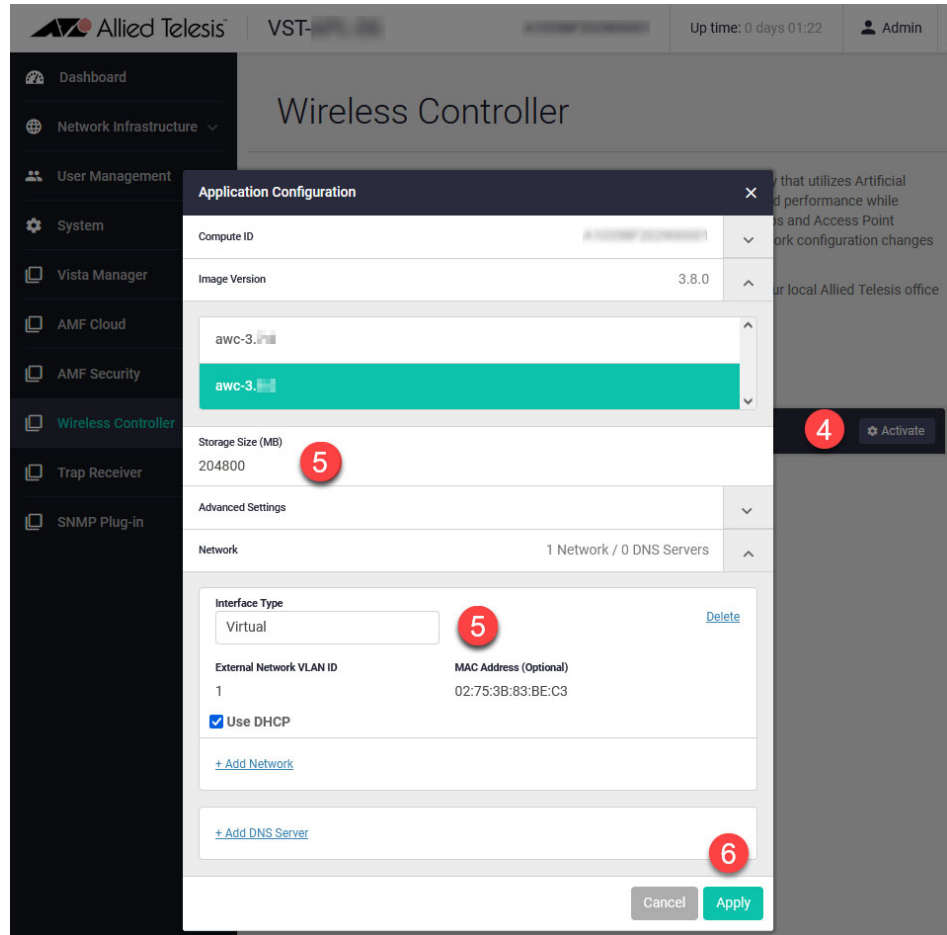
The screenshot shows the VST-VRT GUI interface. On the left, a dark sidebar contains a menu with 'Wireless Controller' highlighted in red. The main content area is titled 'Wireless Controller' and contains a table of instance information for 'AT-AWC-app'. A red circle highlights the information icon (i) next to the 'Image' row, and another red circle with the number '1' highlights the 'Image' row itself. The table contains the following data:

Instance Information: AT-AWC-app		Configure
Name	AT-AWC-app	
Compute ID	[REDACTED]	(MB)
Image	awc 3. [REDACTED]	Upgrade
Network: eth0	Network Type: Virtual VLAN ID: 1 MAC: 02:75:3B:83:BE:C3 IPv4 Address: [REDACTED] DHCP: true	

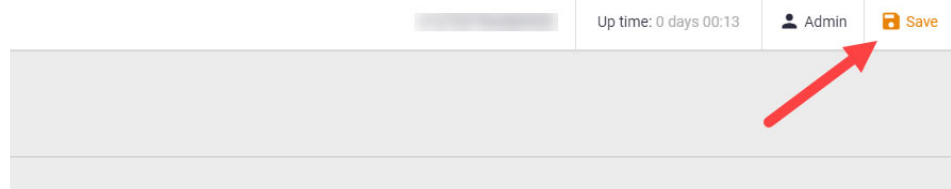
2. In the application page, stop the application by clicking the **Stop** button.
3. Destroy the application by clicking the **Destroy** button.
4. Click the **Activate** button.
5. Add an interface to connect the application to your network..

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

AWC: 204 800 MB  
 SNMP Full: 102 400 MB



- Click the **Apply** button. This creates a new version of the application instance. Wait a few minutes for this to start and for the **Open** button to appear.
- It is important to save the state of the VST-VRT operating system after the upgrade. The **Save** button in the top right corner of the screen is orange when there are unsaved changes. Click on the button to save the changes.



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

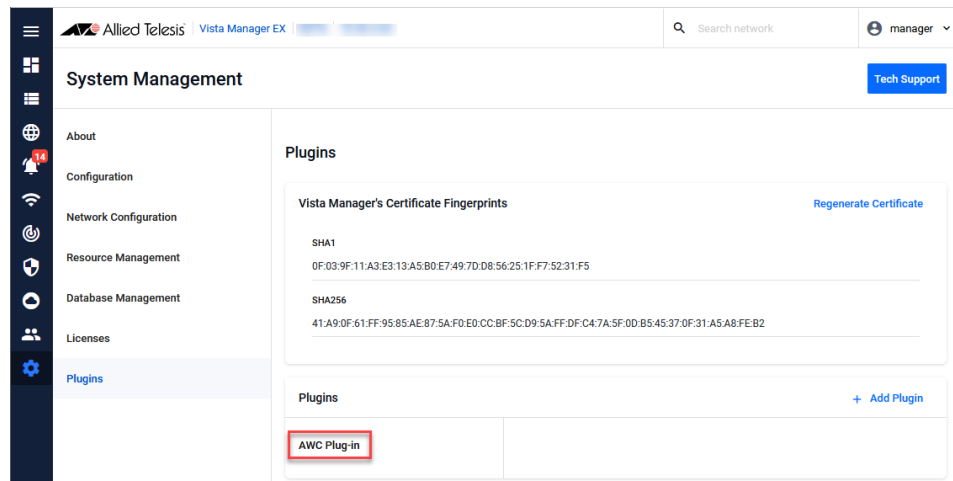
## Re-register plug-ins in Vista Manager

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

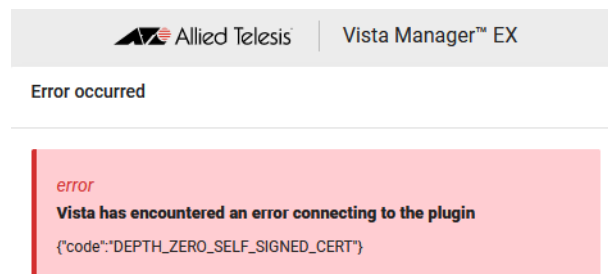
- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plug-ins.

11. On the Vista Manager EX page, navigate to **System Management > Plugins**.
12. Click **AWC Plug-in** at the bottom left.



If the plug-in is not registered, Vista Manager displays an error message like this:



13. Click on the plug-in name and then **Edit**.



- Check the certificate and click **Save**. A 'Plug-in updated' pop-up message confirms this step.

**Register Plugin**
✕

**Server URL**

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

**Plugin Certificate Fingerprints:**

**SHA1**

28:69:65:21:F5:16:1E:62:FF:CD:EE:D7:89:6F:3B:A1:DC:81:35:CF

---

**SHA256**

D9:22:35:F5:7B:47:14:70:69:A6:E8:19:55:0B:7E:14:D5:27:52:0B:E8:1E:A1:C5:4A:71:21:9D:90:32:ED:95

---

Save

- Repeats [Step 12](#) to [Step 14](#) for the SNMP (full) plug-in.
- 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:

- "[Restore system data for the Wireless Controller plug-in](#)" below
- "[Restore system data for the SNMP plug-in](#)" on [page 21](#)

Note that for the applications upgraded as a set in this procedure "[Upgrade Vista Manager, AMF Cloud, and AMF Security applications](#)" on [page 12](#), 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:

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

3. Click the **Restore** button in the System Maintenance section to open the **Restore** dialog box.
4. Click the **Select File** button and select a backup file.
5. Click **Run**.
6. Click **OK** on the confirmation dialog box.
7. After the restoration process has finished, a dialog box shows that restoration is complete. Click **OK**.

Note that the back-up cannot restore the following system information. Re-configure these values as necessary:

- « Database Setting > **Maximum Memory Usage**
- « Network Map Setting > **Wireless Client Update-Interval**

Note that an email server and "from" address must be configured on the device in order for email logs to work. Use the command **mail from <email-address> server <ip-address>**, where the <email-address> is the 'From:' field on the sent email, and the <ip-address> is the email's destination SMTP server.

8. Set the external IP address for the plug-in application. To do this, in the Vista Manager EX page, navigate to **AWC Plug-in > System Setting**.

In the **IP Address Settings** page, click the drop down list and select the AWC IP address (don't select 'other').

Click the **Save** button for that section.

## Restore system data for the SNMP plug-in

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

Log in to Vista Manager EX using an Admin account.

1. In the left menu of Vista Manager EX, click the **SNMP plug-in** icon, then click the **System** menu.
2. In the **System Setting** page **System Maintenance** panel, click the **Restore** button. This restores the data from the back-up into the SNMP plug-in application.