

Release Note for AT-VST-APL Vista Manager Network Appliance Software Version 3.5.x



» VST-APL v3.5.2

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VST-APL Software Version 3.5.2

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 3.5.2 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 Software Download area of the Allied Telesis website. Log in using your assigned email address and password.

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 3.5.2

VST-APL version 3.5.2 provides the following software, applications, and files:

Software	VERSION	FILENAME
VST-APL operating system	1.6.1	ATVSTAPL-1.6.1.iso
VST-APL application bundle	3.5.2	VST-APL-3.5.2.bundle
Vista Manager	3.9.1	vista-x86_64-3.9.1.app
Wireless Controller (AWC)	3.9.1	awc-x86_64-3.9.1.app
SNMP Trap Receiver	2.5.0	snmp-x86_64-2.5.0.app
SNMP-Full	2.8.1	fullsnmp-x86_64-2.8.1.app
AMF Cloud	5.5.2-0.1	amf-x86_64-5.5.2-0.1.app
AMF Security	2.3.2	sesc-x86_64-2.3.2.app

What's New in VST-APL 3.5.2

VST-APL 3.5.2 includes the following support for new application versions, new features and enhancements.



Vista Manager

The Vista Manager application was upgraded to version 3.9.1. For release notes, and other technical documents, for Vista Manager 3.9.1 see the Vista Manager Network Appliance Technical Document page on our website.

Wireless Controller (AWC)

The Wireless Controller (AWC) application was upgraded to version 3.9.1. For release notes and other technical documents for Wireless Controller (AWC) 3.9.1, see the Vista Manager Network Appliance Technical Document page on our website.

SNMP

The SNMP (full SNMP) plug-in application was upgraded to 2.8.1. For release notes and other technical documents for SNMP 2.8.1, see the Vista Manager Network Appliance Technical Document page on our website.

AMF Cloud

The AMF Cloud application was upgraded to version 5.5.2-0.1. For release notes and other technical documents for AMF Cloud 5.5.2-0.1, see the Vista Manager Network Appliance Technical Document page on our website.

AMF Security (AMF-Sec)

The AMF Security application was upgraded to 2.3.2. For release notes and other technical documents for AMF-Sec 2.3.2, see the Vista Manager Network Appliance Technical Document page on our website.

Generate tech support data for applications

In previous versions, you could generate tech support output for the appliance itself. From this version, you can also generate tech support output for each application instance that is running on it. Tech-support output can assist with troubleshooting. If you contact Allied Telesis for support, you can include these tech-support files.

The generated tech-support file from the VST-APL GUI may be different than the techsupport file the specific application produces (for example, the output of **show techsupport** in the AMF master application). We recommend obtaining a tech support file from within the application if possible. Only use the following procedures if you cannot access the application sufficiently to generate a tech-support file, or when Allied Telesis customer support requests it.

Generate tech support output for one application

To generate a tech support output file for a single application instance:

- 1. Make sure the application is running.
- 2. From the VST-APL dashboard menu, navigate to the application page for the application. For instance, to generate a tech-support file for the Vista Manager application, navigate to the **Vista Manager** page.
- 3. Click the **Generate Tech Support** button. The application generates the tech support file and stores it in the appliance **/fs/flash** directory. The file name indicates the application.



- 4. Wait while the application generates a tech-support file. This can take up to a few minutes. The larger the tech-support data file, the longer this takes.
- 5. Navigate to **System** > **File Management** and the **/fs/flash** directory to view or download the file. You may need to refresh the page to see the new files.

Generate tech support output for VST-APL and multiple applications

To generate tech support output for the appliance, and optionally for one or more applications:

- 1. From the VST-APL dashboard menu, navigate to **System** > **File Management**.
- 2. Click the **Generate Tech Support** button. A pop-up opens showing the device and the running applications. By default, all of these are selected to generate tech-support data.
- 3. Update the selection as required and click **Generate**. The device and each application generate a tech support file and store it in the appliance **/fs/flash** directory.
- 4. Wait while the device and applications generate tech-support files. This can take up to a few minutes. The larger the tech-support data file, the longer this takes.
- 5. Navigate to the **System** > **File Management** page and the **/fs/flash** directory to view or download the files. You may need to refresh the page to see the new files.

Enhancements

Security enhancement: TLS version 1.2 or above required

The VST-APL operating system 1.6.1 (VST-APL 3.5.1 and later) now supports TLS version 1.2 or above only. This improves security.

TLS v1.0 and TLS v 1.1 have been deprecated, and are not supported. Current versions of the browsers supported by the VST-APL no longer use the earlier TLS versions.

Tech-support shows reboots

From this version, the tech-support output for the appliance now shows expected and unexpected reboots. This may assist in troubleshooting.

VST-APL GUI changes and enhancements

This version includes the following minor enhancements to the GUI.

- To configure an application instance once it as been created, navigate to the application page and click the **Configure** button to the right of the application instance in the main application panel. (Previously the configure button was available in the Instance Information popup box.) The Container Services page also now has the Configure button to the right of each application. However, we recommend using the application page to configure each instance.
- The Save button at the top right corner of the GUI is now blue if the configuration has been saved. (Previously it was black.) When there is unsaved configuration, the Save button still shows orange.



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



Upgrade procedure

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

- "Backup the system" on page 8
- "Backup application data before upgrading" on page 11
- "Upload component software" on page 12
- "Upgrade the operating system and GUI" on page 13
- "Upgrade Vista Manager, AMF Cloud, Trap Receiver and AMF Security applications" on page 14
- "Backup the system" on page 8
- "Upgrade Wireless Controller (AWC) and SNMP (full) plug-in applications" on page 17
- "Remove obsolete files from memory" on page 22

Backup the system

From VST-APL 3.4.x, 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.

	Allied Telesis	VST-APL-06	A10358F202900001	Up time: 22 days 22:59	💄 Admin	Save
æ	Dashboard					
۲	Network Infrastructure $ imes $	Backup and Restore				
*	User Management	Use the Backup	_	×		
۰	System 🔨	Select backup location	5	~		
	File Management Backup and Restore	In f Back up configuration file? Nat	No	Yes		
	Container Services	Files to back up	sesc-x86_64-2.3.0.app vista-x86_64-3.8.0.app	~		
	Logging Monitor	Application instances to back up	AMF-Sec-app AT-AMF-app	v		
	Time About	Pre	AT-AWC-app AT-FULLSNMP-app AT-SNMP-app AT-Vista-app		4 + Create	Backup
П	Vista Manager	Na Estimated free space required in backup location	18.5GB	Size		
	AMF Cloud	•	Cancel Back Up	Now 10KB	C Restore	Delete
	AMF Security					
D	Wireless Controller					
D	Trap Receiver					
D	SNMP Plug-in					

5. In the **Backup** dialog box, click the down-arrow at the right of **Select backup location** and from the locations available, 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. 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 in the drop-down list, 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).

Backup		×
Select backup location	/mnt/media1	~
Back up configuration file?	No	Yes
Files to back up	sesc-x86_64-2.3.0.app vista-x86_64-3.8.0.app	~
Application instances to back up	AMF-Sec-app AT-AMF-app AT-AWC-app AT-FULLSNMP-app AT-SNMP-app AT-Vista-app	^
AMF-Sec-app		^
AT-AWC-app		
AT-FULLSNMP-app		
AT-SNMP-app		¥
Estimated free space required in backup location	18.5GB	
	Cancel Back Up	Now

7. Click the green **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
A10backup_20220113_011350	13/01/2022, 2:20:09 pm	Backup in progress 7

The backup filename will have a format like this:

<device-serial-number>_backup_YYYYMMDD_HHMMSS.abk

for example:

A10359000000000_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

Backup application data before upgrading

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. 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.

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 appliances 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 Software Download Centre. 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. Navigate to the **System** > **File Management** page. Click the **Upload** button and select the software image files to upload.

æ				
•	File Management	t _e		SReboot () Shutdown
#1				
٥	Set Boot Release File	k		
D	File Upload		×	D Browse
₽	V3 I-APC-3.	Verifying	-	
□	53%			5.0G / 9.9G
	/fs /flash			Generate Tech Support
	Name 🗡	Modified —	Size(bytes) A	ctions
	AMF-x86_64-5.	3/12/2021, 10:53:25 am	20959228	Download Delete
	ATVSTAPL-1.4].iso	3/12/2021, 10:38:06 am	83075072	O Download
	awc-x86_64-3.1 ().app	3/12/2021, 10:55:14 am	136828956	O Download
	default.cfg	17/12/2021, 9:06:44 am	5487	O Download Delete
	fullsnmp-x86_64-2 1.app	3/12/2021, 10:55:10 am	106764740	Download Delete
	log	17/12/2021, 10:31:37 pm		
	sesc-x86_64-# ##).app	3/12/2021, 10:55:05 am	41826860	Download Delete
	snmp-x86_64-2.11.B.app	3/12/2021, 10:59:57 am	211087756	O Download E Delete
	Vista-x86_64-3 1 .app	3/12/2021, 10:55:00 am	531797036	Download Delete

Upgrade the operating system and GUI

Before upgrading the operating system, make sure to:

- "Backup the system" on page 8
- "Upload component software" on page 12

To upgrade the VST-APL operating system, 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.
- 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, Trap Receiver and AMF Security 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:

- "Backup application data before upgrading" on page 11
- "Upload component software" on page 12
- "Upgrade the operating system and GUI" on page 13

Use this procedure to dynamically upgrade these applications:

- Vista Manager
- AMF Cloud
- Trap Receiver plug-in
- AMF Security



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

a	Dashboard					_			
⊕	Network Infrastructure 🗸	System Information							
	User Management	CPU	15.40%						
\$	System 🗸	Memory	16.8%						
D	Vista Manager	Fans	Status:	Active					
	AMF Cloud	Environment	Status:	Good					
	AME Security	System Time	30/06/2	022, 2:15:03 pm					
		Deployed A	oplications						Upgrade Instances
	wireless Controller								
D	Trap Receiver	Name		Image	CPU Load (%)	Memory (MB)	Storage (MB)	State	
D	SNMP Plug-in	AMF-Sec-a	qq	🔒 sesc	0.08/100	227 / 32016	703 / 10000	Running	C Open
		AT-AMF-ap	D	C 🔒 AMF	0.02/100	101 / 32016	258 / 10000	Running	C Open
		AT-AWC-ap	p	() 🔒 awc	0.10/100	570 / 32016	846 / 10000	Running	Open
		AT-FULLSN	MP-app	â fullsnmp	0.03/100	431 / 32016	390 / 10000	Running	C Open
		AT-Vista-ap	p	C 🔒 vista	0.77/100	4291 / 32016	4608 / 204800	Running	C 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	2					×
Upgrade To:				_		
VST-APL-3.5.2				~		
Instance	State	Image	Current Version	Target Version	Status	Action
AT-AMF-app	Running	AMF	5.5.1-2.1	5.5.2-0.1	This instance can be upgraded	
AT-AWC-app	Running	awc	3.7.0	3.9.1	This instance is running an image that cannot be upgraded to the one in this bundle	
AT-FULLSNMP- app	Running	fullsnmp	2.8.0	2.8.1	This instance is running an image that cannot be upgraded to the one in this bundle	
AMF-Sec-app	Running	sesc	2.3.0	2.3.2	This instance can be upgraded	
AT-Vista-app	Running	vista	3.8.0	3.9.1	This instance can be upgraded	
					Upgrade S	elected

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.



 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.

Allied Telesis	Vista Manager™ EX
Vista Manager EX requires database n	nigration
Your Vista Manager EX data will be migra Please download a backup of your curren	ted automatically. t data before proceeding.
Download Database Backup	Continue Migratio

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.

Allied Telesis	S Vista Manager™ EX	
Please confirm you have downloa	aded a backup	
Data may be lost during the r If you have not yet download the previous page.	migration process. Ied a database backup, please do so in	
< Back	Continue Migration	



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

Before upgrading these applications, make sure to:

- "Backup the system" on page 8
- "Backup application data before upgrading" on page 11
- "Upload component software" on page 12
- "Upgrade the operating system and GUI" on page 13

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 18
- "Re-register plug-ins in Vista Manager" on page 20
- "Restore application data from back-up" on page 21



Destroy and recreate application instances

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).

⊕	Network Infrastructure 🗸	W	'ireless	Contro	oller	
* *	User Management	Allied perfor	Telesis Autonom mance while red	nous Wave Contro ucing deployment onfiguration chan	l (AWC) is an advanc t and operating costs ges and bandwidth d	ed networ . By auton emands fr
~	File Management Backup and Restore Container Services Logging Monitor Time About	For mo	ore information of ge server po Instance Infor Name Compute ID Image	contact your local Il interval: mation: AT-AWC- AT-AWC-app awc 30	Allied Telesis sales r Disabled app Configure	epresenta , , (MB)
	Vista Manager AMF Cloud AMF Security Wireless Controller	2	Network: eth0	Network Type: VLAN ID: 1 MAC: 02:75:38 IPv4 Address: DHCP: true	Virtual 3:83:BE:C3	973

- 3. In the application page, stop the application by clicking the **Stop** button. Destroy the application by clicking the **Destroy** button.
- 4. Click the **Activate** button.



AWC:

204 800 MB

SNMP Full: 102 400 MB

5. 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:

Allied Telesis	VST-	A 10000 1000000	Up tir	ne: 0 da	iys 01:22	Admin
Dashboard Network Infrastructure	Wireless C	controller				
User Management	cation Configuration			×	/ that utilizes Art d performance v is and Access P	ificial vhile oint
Computer Com	te ID Version	A 1000MF 0	3.8.0	~	ork configuration ur local Allied Te	n changes lesis office
AMF Cloud AWF Security	rc-3.7.0			^		
Wireless Controller	e Size (MB)			Y	4	Activate
SNMP Plug-in	eed Settings	1 Network / 0 DN	S Servers	~		
internet int	erface Type /irtual emai Network VLAN ID JSe DHCP	MAC Address (Optional) 02:75:3B:83:BE:C3	De	lete		
±£	dd Network dd DNS Server			6		

- 6. 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.
- 7. 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.

	Up time: 0 days 00:13	🛓 Admin 📑 Save

- 8. 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.
- 9. Log in to Vista Manager EX.



Re-register plug-ins in Vista Manager

You need to reregister these plug-ins in Vista Manager EX:

- Wireless Controller (AWC)
- SNMP (Full)

Follow these steps for each of the plug-ins.

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

=	Allied Telesis Vista Manager EX		Q Search network	🕒 manager 👻
##	System Management			Tech Support
⊕ ⊈ [₽]	About Configuration	Plugins		
رې ج	Network Configuration	Vista Manager's Certificate Fingerprints		Regenerate Certificate
•	Resource Management	SHA1 0F:03:9F:11:A3:E3:13:A5:B0:E7:49:7D:D8:56:25:1F:F7:52:31:F5		
٥	Database Management	SHA256		
*	Licenses	4 LA9/UP/011FF95/85/AE/87/SALFUEU/CUBF/SCU9/SALFFUF/C47/A/SF/UD/85/4	5:37:0F:31:A5:A8:FE:B2	
٠	Plugins			
		Plugins		+ Add Plugin
		AWC Plug-in		

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

Allied Telesis Vista Manager™ EX
Error occurred
error Vista has encountered an error connecting to the plugin

12. Click Edit.

Plugins	+ Add Plugin
AWC Plug-in	Delete Plug-in Edit

13. Click Verify Connection.



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

Register Plugin	×
Server URL	
https:// :5443/wireless_plugin	
Please verify these certificate fingerprints match the ones the plugin See Vista Manager EX Installation Guide for more information.	is reporting.
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:C :90:32:ED:95	5:4A:71:21:9D
	Save

- 15. Repeats steps Step 11 to Step 14 for the SNMP (full) plug-in.
- 16. 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 applications upgraded as a set in this procedure "Upgrade Vista Manager, AMF Cloud, Trap Receiver and AMF Security applications" on page 14, the data is restored automatically.

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" on page 21
- "Restore system data for the SNMP plug-in" on page 22

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:

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

- 3. 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.

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.

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.

Allied Telesis

 North America Headquarters
 19800 North Creek Parkway
 Suite 100
 Bothell
 WA 98011
 USA
 T: +1 800 424 4284
 F: +1 425 481 3895

 Asia-Pacific Headquarters
 11 Tai Seng Link
 Singapore
 534182
 T: +65 6383 3832
 F: +65 6383 3830

 EMEA & CSA Operations
 Incheonweg 7
 1437 EK Rozenburg
 The Netherlands
 T: +31 20 7950020
 F: +31 20 7950021

alliedtelesis.com

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