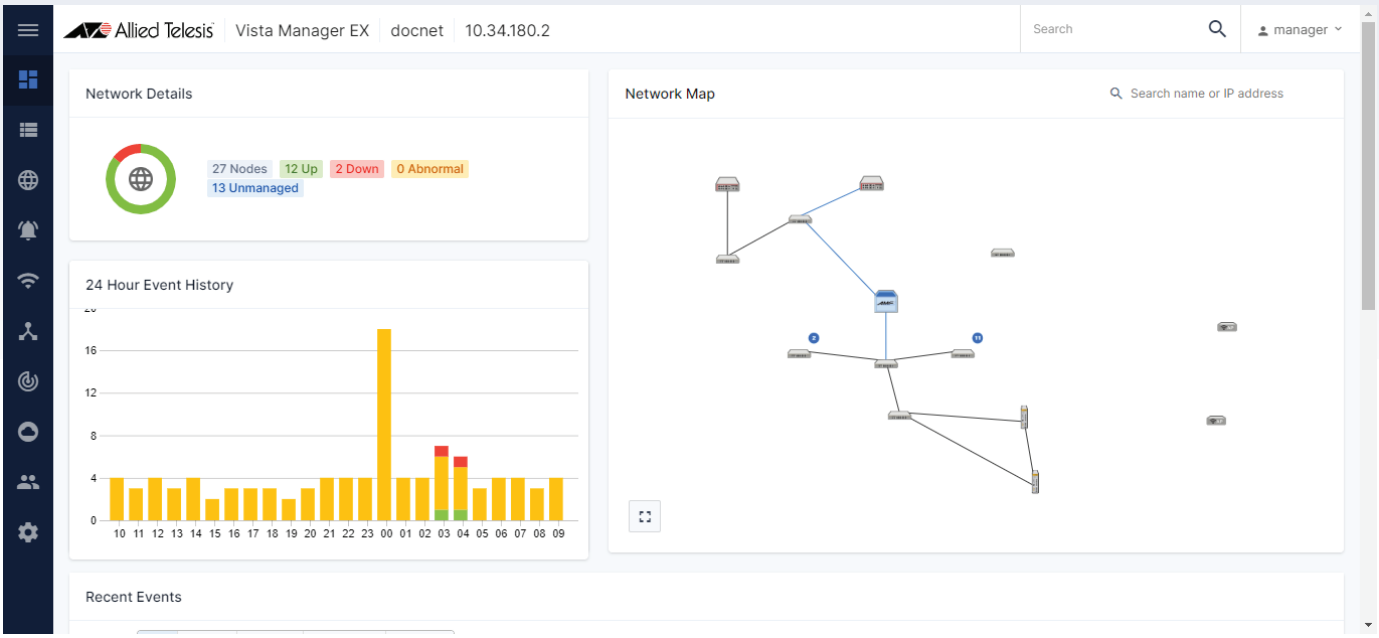
Release Note for Vista Manager EX v3.2.1



AlliedWare Plus
OPERATING SYSTEM

Acknowledgments

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Content

What's New in Vista Manager EX v3.2.1

Introduction

This release note describes the new features in Vista Manager EX™ v3.2.1. It covers Vista Manager EX plus the optional Autonomous Wave Controller (AWC) and SNMP plug-ins.

You can obtain the software files from the Software Download area of the Allied Telesis website. Log in using your assigned email address and password.

Contact your authorized Allied Telesis support center to obtain a license.

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While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesis, Inc. can not accept any type of liability for errors in, or omissions arising from, the use of this information.

New Features and Enhancements

This section summarizes the new features added to Vista Manager EX v3.2.1.

Zip folder support for firmware upgrade

Applicable to all Vista Manager installations.

From Vista Manager EX version 3.2.1, zip folder support for firmware upgrade allows you to run firmware distribution with a URL that points to a zip file. Previously, only a rel file was supported. Vista Manager EX extracts the zip file (containing a single rel file) onto a temporary directory. If the release file matches a device family, the release file will be distributed to the device family. Otherwise, you will be notified of any invalid extracted files. Any non-release files in the zip file will be ignored.

This feature is supported for firmware version AlliedWare Plus 5.4.9-1 or later.

Along with this feature, there is also a new tab called "File System" on the node details page. This lets you upload files to the flash drive of a selected node. Vista Manager EX checks for sufficient space on the flash drive before proceeding. A message prompt displays for you to confirm file upload. The uploaded file will overwrite existing files with the same name. This functionality supports any file type.

Grouping: Adding nodes to groups

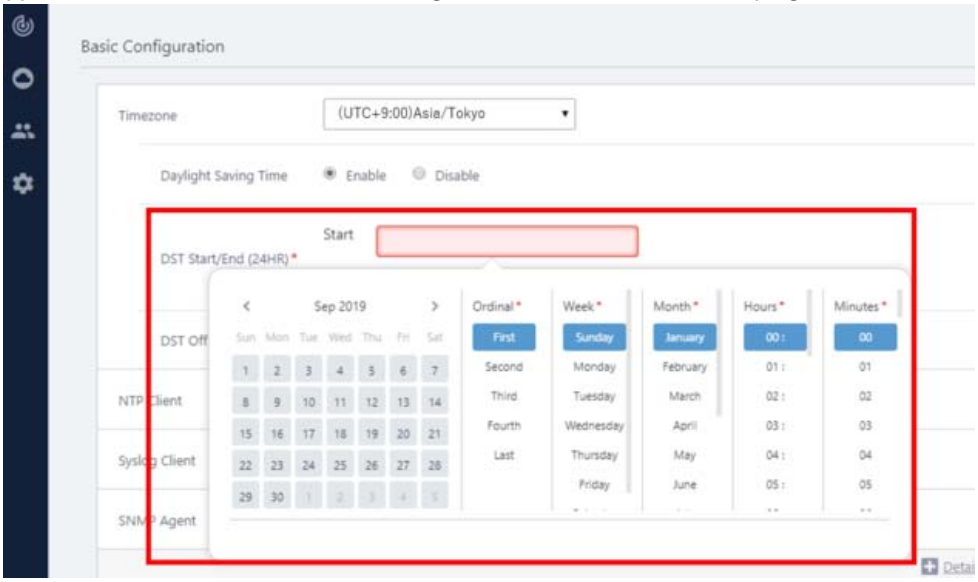
Applicable to all Vista Manager installations.

In previous versions of Vista Manager EX, admin users were given the ability to create groups of nodes using a set of filter criteria (MAC address, IP range and vendor). From Vista Manager EX version 3.2.1, this grouping mechanism has been extended to allow devices that do not match a filter criteria to be manually assigned to a group.

As an admin user, you may choose to manually assign devices to a group when creating or editing a group in the Groups tab on the Asset Management page. Alternatively, you can also create a group from selected nodes on the Network Map page. From the map, you may add/remove manually assigned nodes to/from a group.

Timezone setting on AP profiles

Applicable to Windows-based Vista Manager installations with the AWC plug-in.



From Vista Manager EX version 3.2.1, the AWC plug-in lets you add a timezone setting and enable/disable Daylight Saving Time for the TQ5k and TQ1k series AP profiles. In order to use this setting, firmware version 6.0.1-1.1 or later is required.

The timezone display format will appear differently for different profiles. For example, for timezone of Japan:

- **TQ5k/1k series:** (UTC+9:00)Asia/Tokyo
- **TQ2k/3k/4k series:** (UTC+09:00)Japan

Default timezones will differ as well. Only timezone settings of the TQ5k/1k series profile can have a blank option and will show as blank by default. For the TQ2k/3k/4k series, the default timezone will show as (UTC+09:00)Japan.

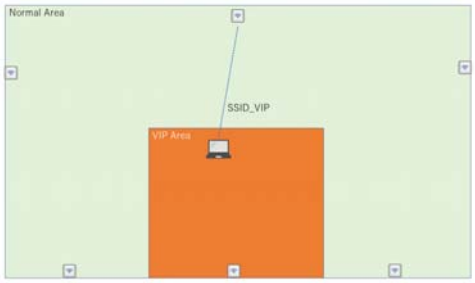
Additionally, this feature has a search function implemented for all AP profiles, which allows you to conveniently search for a specific timezone.

Area authentication: Allow/deny associate requests based on client location

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

From Vista Manager EX version 3.2.1, the area authentication feature will be able to allow or deny associate requests based on client location. Channel blanket must be configured in order to use area authentication. This feature consists of the following enhancements:

- **Configuration of area authentication** - A network administrator configures area authentication VAP on the AWC plug-in. Clients can then connect to a special area and access specific content, for example, a VIP area.
- **Simple radius server** - It is implemented as a tool within the AWC plug-in and uses MAC address authentication only. Upon receiving an access request from the AP, it further requires the username, password and called station ID.
- **Inner judgement** - When a client tries to connect to an AP, Simple Radius Server is implemented. It judges the client's location, and allows or rejects the client connection request. Areas are specified by the AP MAC address and SSID.
- **Outer judgement** - This is a web API called by the CWM that is implemented in the AWC server. After a client connects to an AP, if the client location is outside of the area, the client is disconnected by CWM. These areas are specified by the AP's MAC address, radio ID and VAP ID.



Due to restrictions of the AP and station location, there are some functionality limitations to take note of:

- A client will not switch automatically from normal VAP to area authentication VAP without user operation, when it has entered the area.
- Dynamic VLAN will not be supported in area authentication (AWC plug-in, simple radius server, AP). Therefore, the SSID of area authentication VAP will not be the same as normal VAP.
- Detecting the location of a disassociated client (rogue client) is not implemented. If a client device does not connect to the APs, the client location will not always be detected. There is a possibility that area authentication will deny associate requests when a client is actually located inside the area.
- Common use of area authentication and MAC address authentication will not be supported in version 3.2.1.
- Area authentication will not necessarily be real-time. It takes approximately 4 minutes from detecting client location to disconnecting client after it goes out of the area.
- Client detection has an approximate error range of 1 to 20 meters. Because of this, area authentication cannot correctly judge the exact location of a client.

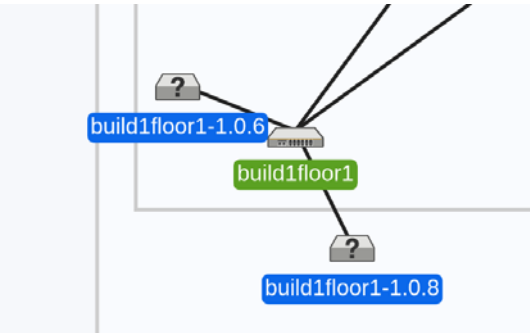
The area authentication feature is not supported by AP firmware versions prior to 6.0.1-2.1. It supports version 3.2.1 data sheet of station location history and the following minimum specifications:

- **Storage:** 20,000 IOPS. SSD is recommended.
- **Disk free space:**
  - 240 GB (without SNMP plug-in, 100 APs, history within 1 day)
  - 1 TB (3000 APs, history within 1 day)
  - 1.5 TB (3000 APs, history within 14 days)
- **CPU:**
  - Intel Core i5 processor 4 cores 2.5 GHz (max 600 APs)
  - Intel Xeon Gold processor 12 cores 2.6 GHz (max 3000 APs)
- **Memory:**
  - 18 GB (without SNMP plug-in, 100 APs, history within 1 day)
  - 28 GB (3000 APs, history within 1 day)
  - 205 GB (3000 APs, history within 14 day)
- **Maximum number of clients:** 3000
- **Maximum concurrent requests from clients:** 3000

Change of tunnel link theme color

Tunnel links were previously amber color; this could be misinterpreted as amber is used throughout Vista Manager EX to indicate a state of error.

Tunnel links are now colored green. Vlinks remain blue. This distinction is important as users need to have the ability to see SD-WAN-related links (tunnels) apart from AMF control links (vlinks).



Unsupported platforms

The following devices are no longer supported from Vista Manager EX version 3.2.0 onwards:

- MWS series AP

Issues Resolved in Version 3.2.0

This Vista Manager EX release version resolves the issues in the following table:

CR	Description
CR-67866	Previously, sometimes the WAN map did not update automatically after a WAN port or device went down or up. This issue has been resolved.
CR-67941	Previously, the legend on the Edit map page incorrectly indicated that a grey line was a guest link. This issue has been resolved. The legend now indicates that blue lines show Discovered/static links and grey lines show other links.
CR-68131	Previously, if a tech support request in Vista Manager EX failed, then it was not possible to make another tech support request. This issue has been resolved.
CR-68268	Previously, if you created, added or removed a VLAN, there was no event message to indicate you needed to save the running config. If the running config is not saved, rebooting the device removes the VLAN change. This issue has been resolved; an event message now indicates the need to save the configuration.
CR-68306	Previously, when the VAA was the AMF master, AMF provisioning was not available in Vista Manager EX. This issue has been resolved.
CR-68338	Previously, if an invalid number was entered as the time to store syslog messages (for example, a number greater than 35 years), a confusing warning displayed, as well as the correct error message. This issue has been resolved, and only the correct error displays now.
CR-68372	Previously, when editing a group in the Asset Management section, the group name field was empty. This issue has been resolved and the current name now displays correctly.
CR-68375	Previously, when saving the configuration on a device with a large configuration, Vista Manager EX would report that the save failed. This issue has been resolved and a spinner will indicate that the configuration is in the process of being saved.
CR-68384	Previously, it was possible for a read-only user to block an administrator user from updating firmware. This issue has been resolved.
CR-68390	Previously, after restoring a backup, manual polling did not always detect topology changes and network events. This issue has been resolved.

CR	Description
CR-68403	Previously, if you changed pages while entering a search term in Asset Management, the new page would not display. This issue has been resolved and the new page now displays correctly.
CR-68429	Previously, when using Internet Explorer, the link performance graph on the SD-WAN Monitoring page did not display the jitter when you clicked on the Jitter button. This issue has been resolved and the jitter now displays.
CR-68445	Previously, if a guest node changed from one port to another port on its neighboring node, Vista Manager EX would sometimes display a link between a guest node and the original port, as well as the new port. This meant that Vista Manager EX displayed two lines between the neighboring node and the guest node. This issue has been resolved.
CR-68446	Vista Manager EX does not support the use of a remote server for provisioning storage. The error message in this situation has been improved and now indicates that this is not supported.
CR-68470	When using Internet Explorer as the browser, previously the VLAN map did not display the selected VLAN. This issue has been resolved.
CR-68483	Previously, on the Asset Management page, the Fault column displayed "[object Object]" when it should have displayed the number 0. This issue has been resolved.
CR-68487	Previously, CSV files created on the Asset Management page did not display the number of dynamic nodes and additional nodes correctly. This issue has been resolved.
CR-68490	If a guest node's hardware was moved from one AMF area to another, and its IP addresses changed, sometimes the old IP addresses would remain attached to the node, even though those IP addresses were no longer in the network. This issue has been resolved.
CR-68495	Previously, if you deleted a node that belonged to a group, the Asset Management page sometimes no longer showed all devices. This issue has been resolved.

CR	Description
CR-68497	Previously, AT-SBx81GC40 line cards were not visible in Vista Manager EX. This issue has been resolved.
CR-68507	On the Vista Manager EX Syslog page, you can manage the columns that are displayed in the table. Previously, if you reduced the table to a single column, then it was not possible to reinstate the removed columns. This issue has been resolved.
CR-68563	Previously, information in the Protocol tab in the side panel could not be accessed when in Traffic mode. This issue has been resolved.
CR-68655	Previously, if a tunnel interface went down, the WAN map stopped displaying the status of all tunnel interfaces. This issue has been resolved.

What's New in Vista Manager EX v3.2.0

Introduction

This release note describes the new features in Vista Manager EX™ v3.2.0. It covers Vista Manager EX plus the optional Autonomous Wave Controller (AWC) and SNMP plug-ins.

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New Features and Enhancements

This section summarizes the new features added to Vista Manager EX v3.2.0.

Integrated map

Applicable to all Vista Manager installations.

From Vista Manager EX version 3.2.0, the Integrated Map integrates all existing Vista Manager maps into a single map. The integrated map makes it easier for you to see your whole network and to visualize what is happening on the network.

Previously, Vista Manager EX had a number of maps, and each map showed a specific piece of information. The AMF networks map showed traffic, protocol, and VLAN information. The AWC map showed the wireless devices, and the SNMP map showed devices that have been discovered with SNMP. All of these maps are now combined into the integrated map.

The integrated map consists of a base map showing all devices in the network, shown in a logical view. It includes the AlliedWare Plus devices, the wireless devices, edge nodes, and associated links. It also includes devices discovered via SNMP.

On top of the base map are a number of overlays. Each of the overlays shows different information. For example, enabling the traffic overlay displays throughput data on the links. Enabling the SD-WAN rules overlay displays SD-WAN rule health. Enabling the VPN health overlay shows the health of the VPN links.

The integrated map changes the existing map functionality in a number of ways.

- All nodes and links are combined into a single map. This includes nodes from the SNMP plugin, the AWC plugin, and all of the AMF areas.The WAN and LAN links are also displayed.
- For networks with multiple AMF areas, each had to be selected and viewed separately. Those areas are now all grouped together, and displayed on the same map.
- For multi tenant scenarios, VAAs are used to act as a controller to manage multiple networks by a central administrator. They are now displayed on the integrated map with their VPN tunnels. This gives a clearer view how the VAA is connected.
- You can provision new devices directly from the map, selecting the neighboring device and specifying the release file, config, etc.
- When a loop is detected, an alarm badge is displayed on the map, along with information about the port number.
- You can access the device GUI for a device directly from the map, by right-clicking on the device and selecting the "manage device" option.

There are some other changes to be aware of as well.

- Internet Explorer 11 may run slowly when displaying the map, especially for large networks. Refer to "Internet Explorer 11 compatibility" for more information.
- Devices running some older versions of AlliedWare Plus will not show their links on the integrated map. Refer to "Integrated map won't display some links from earlier versions" for more information.
- Existing map customizations will be lost when upgrading. This includes items like background images, node layouts, visibility settings, static icons, and so on.

For more information about the integrated map, refer to the "Displaying sites and devices: the integrated map" section in the Vista Manager User Guide.

Combined metric for choosing the best SD-WAN link

Applicable to all Vista Manager installations.

From Vista Manager EX version 3.2.0, you can use a combined preferred metric for determining the best link in SD-WAN. This lets you take a combination of latency, jitter, and packet loss into account when breaking ties to select the best links. The combined metric is a more sophisticated way of considering the quality of a link, and can result in more appropriate links being selected to send traffic over.

The combined metric is only used for tie-breaking when selecting between links. It produces a score out of 10 for the quality of each link, where a score of 0 represents the best possible link and a score of 10 represents the worst. This metric is calculated using a weighted algorithm of the link's latency and jitter, with reference to the configured bad-above thresholds in the profile, and the packet loss with a recency weighting applied. If no bad-above threshold is configured for either jitter or latency in the profile, then that metric will not be included when calculating the combined metric. Recency-weighted packet loss is always used as a component for calculating the combined metric.

For more information about the combined metric, refer to the "Using the SD-WAN Feature" section in the Vista Manager User Guide.

Syslog server support

Applicable to all Vista Manager installations.

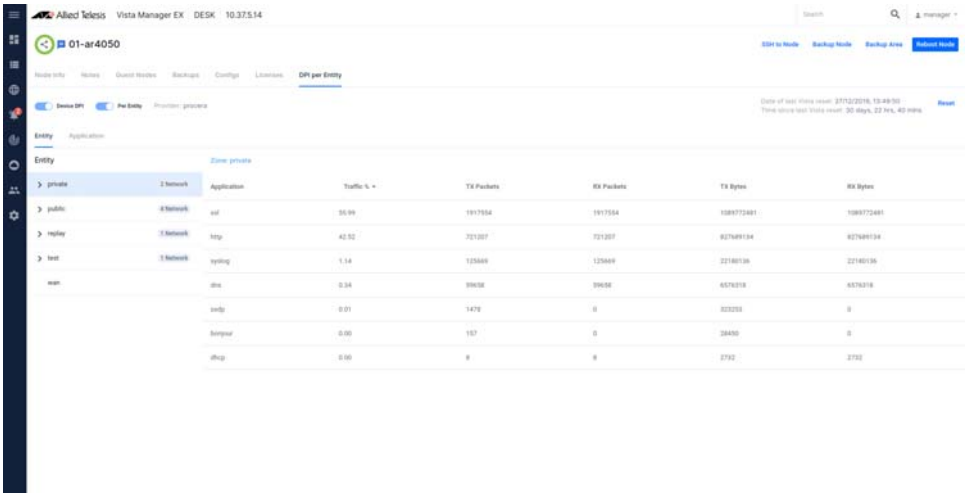
From Vista Manager EX version 3.2.0, you will be able to view syslog messages for nodes and networks, including filtering and searching.

The syslog shows messages from the network or for a specific device on the network. Depending on your level of access, Administrator access allows you to configure how long to store syslog messages. The default configuration is 365 days. Messages older than the default or configured length of time are automatically deleted. The syslog storage is limited to 5 million entries.

For more information about syslog messages, refer to the "Using the syslog" section in the Vista Manager User Guide.

DPI statistics per entity for SD-WAN

Applicable to all Vista Manager installations.



From Vista Manager EX version 3.2.0, you will be able to view DPI statistics for each entity for SD-WAN. To view the DPI statistics, navigate to Asset Management and click on a device. On the row of tabs, to the right of Licenses, click DPI per Entity. If Device DPI and Per Entity aren't already toggled on, click each of them to toggle them on.

Clicking on each entity on the left will show the stats, sorted by the highest % of traffic at the top. Clicking on a column sorts by that field. Clicking the > arrow to the left of the entity name will show the networks inside. If there's an arrow to the left of the network name, you can drill down to see each host. By clicking the Application tab, you can click on a particular application to see their stats. In the table, you can click on the zone to see the stats for networks, and drill down into a network and into hosts.

For more information about DPI statistics, refer to the "Using the SD-WAN Feature" section in the Vista Manager User Guide.

Configuration management

Applicable to all Vista Manager installations.

From Vista Manager EX version 3.2.0, you will be able to manage the startup configuration files on nodes, including backing up, restoring, and comparing config files in Vista.

With the configuration management tool, you can:

- Save a configuration file
- View details of a backup configuration
- Set unlimited favourite configuration files
- Apply a saved configuration to a device
- Delete a configuration backup
- Schedule node reboots in UTC timezone

For more information about managing device configuration, refer to the "Configuration management" section in the Vista Manager User Guide.

Firmware management

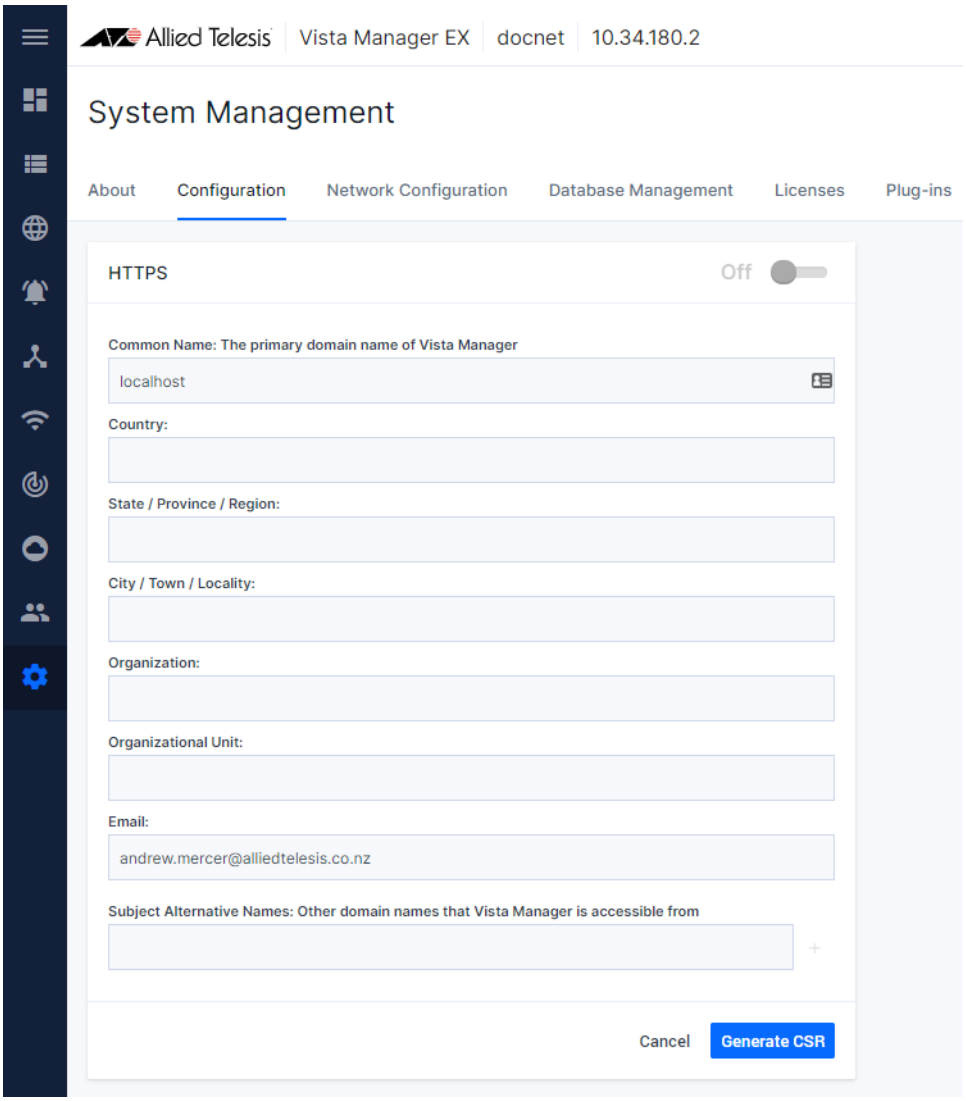
Applicable to all Vista Manager installations.

From Vista Manager EX version 3.2.0, you will be able to update firmware across a family of nodes, and then schedule a time when the nodes will reboot to run the firmware release.

For more information about managing your firmware, refer to the "Firmware management" section in the Vista Manager User Guide.

HTTPS access to include DN rules in CSR

Applicable to all Vista Manager installations.



From Vista Manager EX version 3.2.0, when generating a Certificate Signing Request (CSR) for HTTPS configuration, the available fields for Distinguished Names (DNs) has been increased. When creating a CSR, the following DN fields are available:

- Country name (C)
- State or Province Name (ST)
- Locality Name (L)
- Organization Name (O)
- Organizational Unit Name (OU)

Additionally, it is not required to provide an email address when generating a CSR.

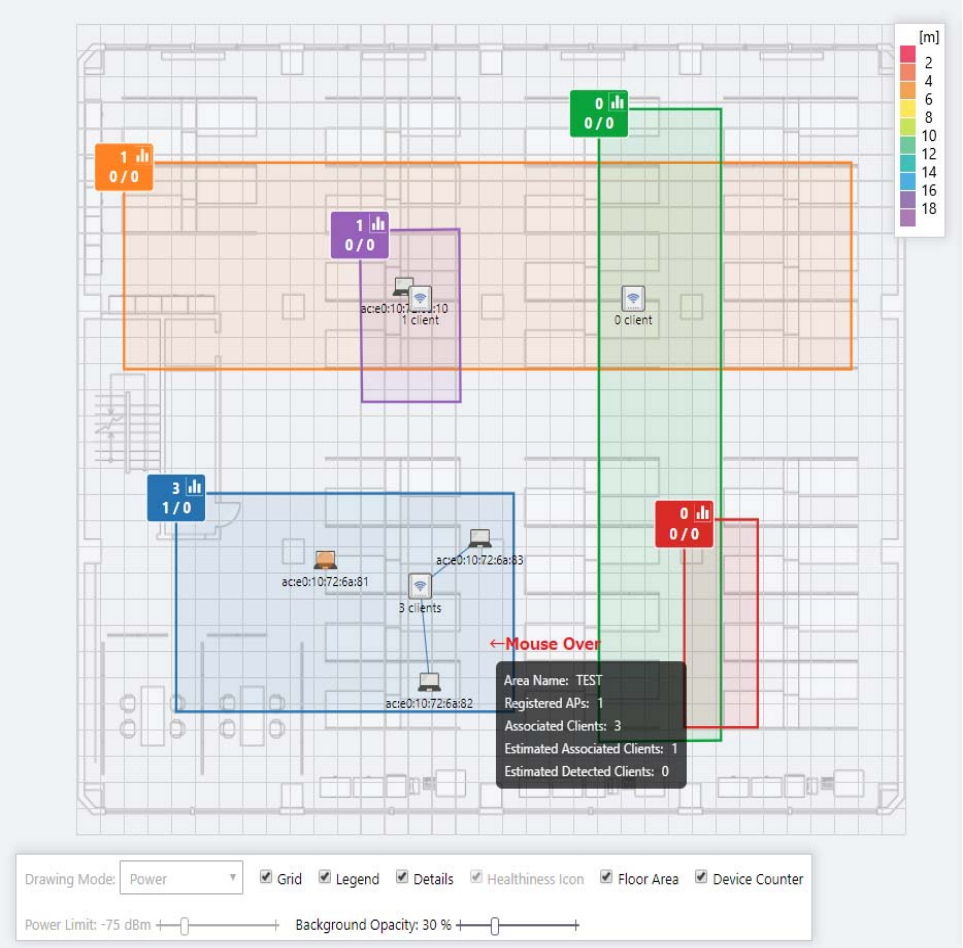
For more information about HTTPS and generating CSRs, refer to the "HTTPS access to Vista Manager EX" section in the Vista Manager User Guide.

AP and client count on floor map

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

From Vista Manager EX version 3.2.0, you can add floor areas to the floor map to allow you to count the APs and clients, and view that information on the floor map and as a client history graph.

Once you have defined a floor area and checked the Device Counter check box on the floor map, you can see a summary of the count of APs and clients within that area. By mousing over the area or the counter, you will see additional information about the area. The information shown varies depending on which floor map view you are using.



When in Associated Client History View, you can click on the device counter to view a bar graph of the history of the clients associated with that area. Select a specific time range to be displayed by clicking on the day or hour. Mousing over a bar will show additional details, and clicking on a bar will display time and device details. Select between Associated Client and Detected Client by clicking on the tabs at the top.

For this functionality, the following settings must be enabled:

- Associated Client Location Estimation History
- AWC-CB settings
- Neighbor Managed AP Detection (SyncScan)
- NTP settings

This feature is supported for TQ5403 and TQ5403e running v6.0.1-X.X or later. As of Vista Manager EX 3.2.0, the TQ1k series does not support Channel Blanket.

AP Profile username and password setting

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

From Vista Manager EX version 3.2.0, the AWC plug-in lets you set a username and password for an AP profile that will be applied to APs assigned to that profile. In the Basic Configuration of an AP Profile, if User Settings are enabled, you can define a username and password that will be applied to assigned APs.

If an AP already has a username and password set, the AP's username and password will be used. However, by checking the Disable checkbox, you can force the APs to use the AP Profile username and password instead.

Assign BSSID for channel blanket VAP

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

From Vista Manager EX version 3.2.0, the AWC plug-in lets you assign the BSSID for a channel blanket VAP manually. Previously, the VAP used the BSSID of the designated AP. This could cause disconnection issues if the designated AP was removed, and therefore changed the BSSID of the VAP.

Association Advertisement in channel blanket

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

From Vista Manager EX version 3.2.0, if an AP is assigned to a Channel Blanket profile, the value for Association Advertisement can be set in the CB profile. Previously, if an AP was assigned to a CB profile, Association Advertisement would be disabled.

Autonomous Wave Control – Smart Connect

AWC-SC is a new feature of AWC, that saves installation time and expense when adding new APs to a wireless network. Instead of cabling new APs into the network, AWC-SC uses one of the AP's channels to join it to the network.

AWC-SC will be available soon on TQ5403 and TQ5403e APs. It will require software version 6.0.1 or later on the APs.

New platform support

Support has been added for the following devices:

- x530DP-52GHXm
- x530DP-28GHXm
- SBx81GP24 v2

Support for the SNMP plug-in has been added for the following devices:

- SBx81CFC960 v2
- TQ1402
- TQm1402

Unsupported platforms

From Vista Manager EX version 3.2.0, the following devices are no longer supported:

- MWS series AP

Known Issues

- When creating a new VLAN, the color palette is not displayed. Instead, the color of the new VLAN is assigned at random.

Important Considerations Before Upgrading

This section describes changes since Vista Manager EX v3.2.0 that may affect your network behavior if you upgrade. Please read it carefully before upgrading.

AMF software version compatibility

- All AMF nodes must run version 5.4.7-0.1 or later.
- If your AMF Master node is running 5.4.7-0.x, then all other nodes must also run 5.4.7-0.x (not a later release).
- If **any** of your Controller or Area Master nodes are running 5.4.7-1.1 or later, then they **all** must run 5.4.7-1.1 or later.
- If your AMF Master node is running 5.4.7-2.x or later, then member nodes can run 5.4.7-0.x or 5.4.7-1.x, although we recommend that all nodes in an AMF network run the same software version.

Wireless AP software version compatibility

- TQ5403 APs with firmware version 5.0.x
- TQ4x00/3x00/2450 APs with firmware version 4.2.x

Note The following are no longer supported from Vista Manager EX version 3.2.0

- MWS series AP

Internet Explorer 11 compatibility

When using the Vista Manager EX 3.2.0 integrated map with Internet Explorer 11, you may find performance to be slower, particularly with large maps. Therefore, we recommend using a different browser, especially if you have a large network.

Virtualization Support

The Vista Manager virtual appliance is not supported on VMware vSphere Hypervisor (ESXi) 5.5. Please upgrade to VMware vSphere Hypervisor (ESXi) 6.0/6.5/6.7 if you wish to use this version of Vista Manager EX.

Vista Manager plug-ins

Vista Manager plug-ins are only available on Windows-based Vista Manager installations. Plug-ins are not available on Vista Manager virtual appliances.

.Net Framework 4.8 required for SNMP plug-in

Applicable to Windows-based Vista Manager installations with the SNMP plug-in.

From Vista Manager EX version 3.2.0, .NET Framework 4.8 or later is required if you are using the SNMP plug-in.

Vista Manager backup compatibility

Restoring Vista Manager backups from a newer version into an older version is not supported. It is not possible, for example, to restore a backup made in Vista Manager 3.0.0 into a Vista Manager 2.5.0 installation.

Vista Manager and RMON

When Vista Manager connects to an AlliedWare Plus network, it automatically enables the RMON (Remote Network Monitoring) commands on each ATMF interface port that it finds. This is done for the purpose of collecting traffic statistics. It does this by modifying the running config on all switchports that interconnect AMF devices (including LAGs). No notification is shown that these changes are being made.

Caution If the **copy run start** or **wr** commands are run on one of these devices, these config changes will be made permanent.

Vista Manager and Npcap

From Vista Manager EX version 3.2.0, Vista Manager cannot be installed on the same computer as Npcap. This restriction also applies to applications that include Npcap.

Information After Upgrading

This section lists the steps to take after upgrading Vista Manager EX. It also includes troubleshooting tips should you experience any problems with the upgrade process.

Clear browser cache

Applicable to all Vista Manager installations.

Clear your browser's cache after upgrading your Vista Manager EX installation. Incomplete dialog boxes, incorrectly populated drop-down lists, and truncated forms are all symptoms of a caching problem.

Remove and reinstall Vista Manager

Applicable to Windows-based Vista Manager installations with or without the SNMP and AWC plug-ins.

If you see an error message during the upgrade process, or experience database errors after installation, try a fresh install of Vista Manager EX.

- First, ensure your Vista Manager EX and plug-in's backups are in a secure location.
- Remove Vista Manager EX, and any installed plug-ins, using the Windows "Programs and Features" utility.
- Re-install Vista Manager EX.
- Restore your backups.

See upgrading "Upgrading Vista Manager as a Windows-based installation" on page 25 for information on making backups, installing, and restoring Vista Manager EX.

De-register the AWC plug-in on large wireless networks

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

Individual APs may disappear from the AWC plug-in if the plug-in is managing a large wireless network (approximately 600 APs or more). If this occurs, de-register the AWC plug-in from the Vista Manager's **System Management -> Plug-in Management** page. Features such as licensing, auto-recovery, and importing an AP from a guest node will still work, even if the plug-in is not registered.

Secure client access and disabling HTTPS

Applicable to all Vista Manager installations.

When HTTPS is enabled in Vista, the user's browser receives a Strict-Transport-Security header as is recommended for a secure client to server environment. If the user elects to disable HTTPS in Vista, their browser is likely to continue to use HTTPS to access that site, despite the user specifying an HTTP URL in the address bar.

This setting is local to the browser, and users are advised to consult their browser documentation on how to reset the HSTS security settings for a target site. Other quick workarounds are to use an incognito or private browser tab, or to use a different browser.

Microsoft Edge support

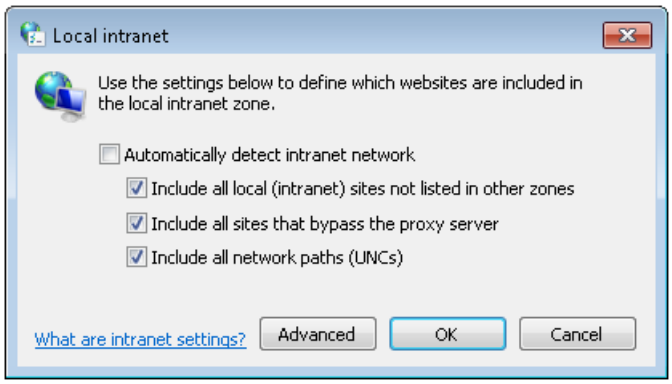
Applicable to all Vista Manager installations.

Security in Microsoft Edge may prevent you from navigating to Vista Manager using an IP address. We recommend that rather than using the IP address, you use DNS and a FQDN for Vista Manager.

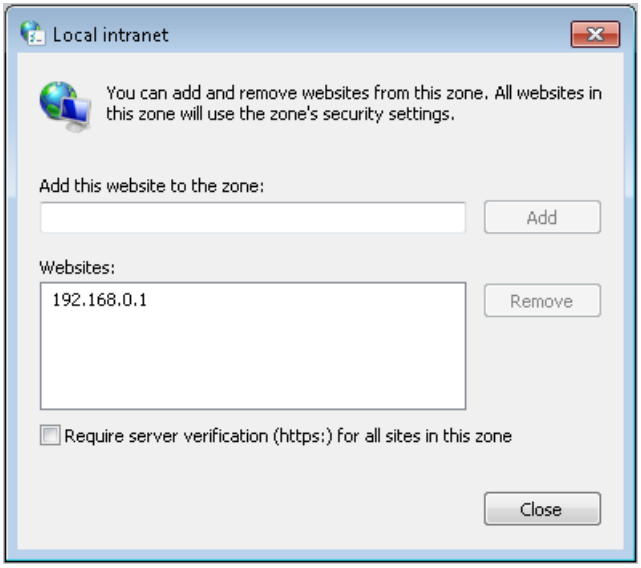
If this is not possible, you can configure Microsoft Edge to allow communication with Vista Manager by doing the following:

1. In the Control Panel, open Internet Options. Click on the Security tab. Select Local Intranet, then click on Sites.

2. Set the following checkboxes:



3. Click on Advanced. In the Add this website to the zone text field, enter the IP address of Vista Manager, then click on Add. Once it has been added, click on Close.



Note: Adding sites to your local intranet settings is a potential security risk. Before making these changes, ensure that the site is secure, and that you are aware of the security issues. If these risks are unacceptable, we recommend using a different browser.

Down nodes in backups

Applicable to all Vista Manager installations.

If you are importing a backup from Vista Manager EX 2.5.0 or earlier, nodes that are down when the backup was taken will not appear on the network map. Once the nodes are brought back up again, they will appear on the network map.

Integrated map won't display some links from earlier versions

Applicable to all Vista Manager installations.

If you are running some older versions of AlliedWare Plus, the links will not be displayed on the integrated map. Any device running AlliedWare Plus version 5.4.5 or earlier will not have its links shown on the map.

In addition, links from x908 GEN1 and x200 devices will not be shown on the integrated map.

Traffic map data not restored

Applicable to all Vista Manager installations.

When you are upgrading to Vista Manager EX 3.2.0, traffic map data from earlier versions will not be imported.

Station location and channel blanket

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

If Station Location is enabled, the maximum number of APs that can have a channel blanket profile applied is 500.

Auto recovery

Applicable to Windows-based Vista Manager installations with the AWC plug-in.

The AWC plug-in auto-recovery feature requires that the APs are running AlliedWare Plus version 5.4.8-1.x or later.

Obtaining User Documentation

Vista Manager documentation

An Installation Guide and User Guide for Vista Manager EX are available from the Allied Telesis website:

- Vista Manager EX Installation Guide
- Vista Manager EX User Guide

AMF documentation

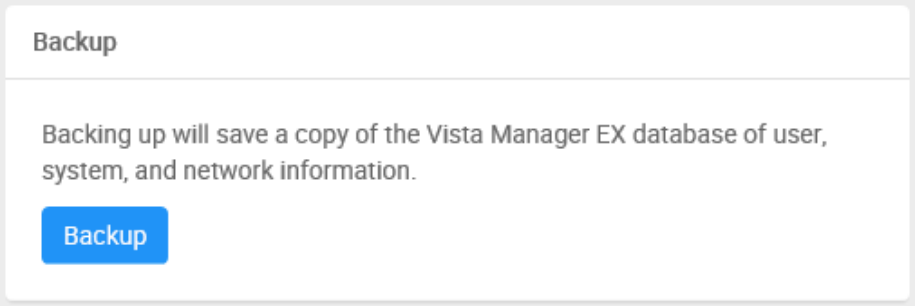
For full AlliedWare Plus documentation, see our online documentation library. For Vista Manager, the library includes the following documents:

- the AMF Feature Overview and Configuration Guide.
- the AMF Datasheet.
- the VAA Installation Guide.

Upgrading Vista Manager as a virtual appliance

To upgrade Vista Manager as a virtual appliance, use the following steps:

1. Log on to your current Vista Manager. From the System Management page, backup the database to a safe location.

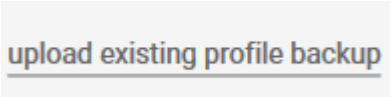


2. Download the software files for Vista Manager EX from the Software Download area of the Allied Telesis website.

3. Import and start the new version of Vista Manager on your virtual machine host, following the instructions from the Vista Manager EX Installation and User Guide on the Allied Telesis website.

4. In the new Vista Manager, log in using the default credentials.

5. A dialog displays once you have logged in. On the displayed dialog, click the "Upload existing profile backup" link.



6. Browse to and upload the backup you created in Step 1.

7. In the new Vista Manager, log in again using the credentials from your current Vista Manager. Check that everything is functioning correctly, and that your settings have been correctly imported.

8. If you use a TLS proxy to provide HTTPS access to Vista Manager, then when you are satisfied that the new Vista Manager is working correctly, reconfigure your TLS terminating proxy to point to the new Vista Manager and stop the current one.

Upgrading Vista Manager as a Windows-based installation

Windows-based Vista Manager has two optional plug-ins. These can be upgraded at the same time as Vista Manager EX.

Obtain the executable files

1. Download Vista Manager EX from the Allied Telesis download center. If you are going to install the AWC and/or SNMP plug-ins then download these files from the same location.

   - The Vista Manager EX installation executable is named 'atvmex*XXX*b*XX*w.exe', with the *Xs* denoting the version and build numbers.
   - The AWC plug-in is called 'atawc*XXX*b*XX*w.exe'.
   - The SNMP plug-in is called 'atsnmp*XXX*b*XX*w.exe'.

   Do not rename these files. The installation requires them to be in this format.

2. Put the executables for Vista Manager and any plug-ins you wish to install in a single folder. This folder must be accessible from the machine you wish to install Vista Manager on.

Backup Vista Manager EX and the plugins

Backup Vista Manager EX

3. Log on to your Vista Manager EX and select the System Management page.
4. Click on the Backup button in the Database Management Pane.
5. Click Backup again to confirm you wish to make a backup.

This automatically downloads a ***tar*** file backup to your default download location.

Backup the SNMP plug-in

6. If you have the SNMP plug-in installed then log on locally to the Vista Manager EX server.
7. Stop the SNMP server services using the shortcut or by running the following command line.

   ***"<Vista Install Path>*\Plugins\AT-SNMP\NetManager\bin\svrcmd.bat" svrstop**

8. Run the backup utility by using the shortcut or by running the following command line.

   "*<Vista Install Path>Plugins\AT-SNMP\NetManager\bin\SMBackup.exe*"**

   Follow the instructions on the screen.

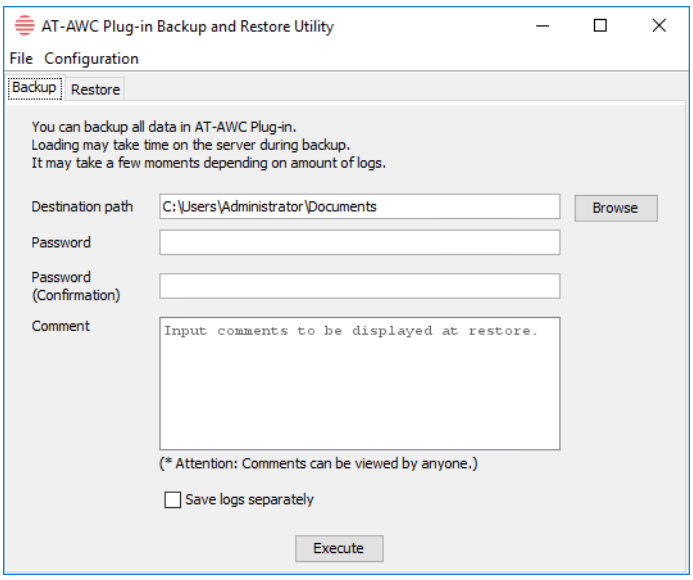
Backup the AWC plug-in

9. If you have the AWC plug-in installed then log on locally to the Vista Manager EX server.
10. Stop the AWC server services using the shortcut or by running the following command line.

    ***"<Vista Install Path>*\Plugins\AT-AWC\root\stopserver.bat"**

11. Run the backup/restore utility by using the shortcut or running the following command line.

    ***"<Vista Install Path>*\Plugins\AT-AWC\tools\maintenance\maintenance.bat"**



12. Select the backup tab and follow the instructions on the screen.

Note: The default location of <*Vista Install Path*> is **C:\Program Files (x86)\Allied Telesis\AT-Vista Manager EX**

Uninstall the existing version

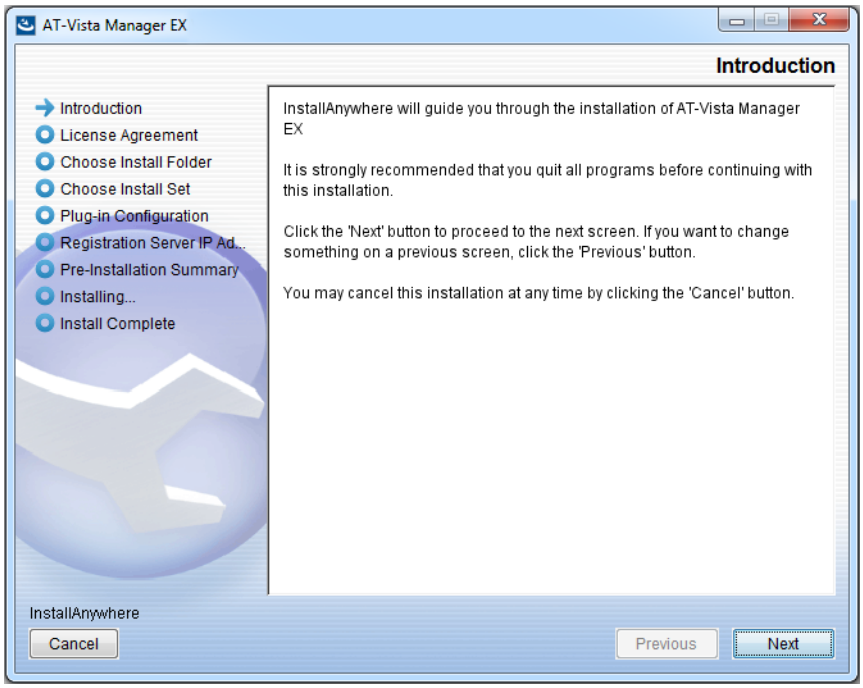
13. Log on as the same user as when installing.
14. Stop the server. Select **AT-Vista Manager EX** and then **AT-Vista Manager EX - Stop Server** from the Windows menu.
15. From the Windows menu, select **AT-Vista Manager EX** then **AT-Vista Manager EX - Uninstall**.
16. The AT-Vista Manager EX uninstaller starts.
17. Click the **Uninstall** button to uninstall.
18. If a dialogue box prompting you to restart the system is displayed, select **Restart the system** or **Restart later** and click the **Finish** button.
19. Delete the installation folder. The default installation folder is:
    C: \ Program Files (x86) \ Allied Telesis \ AT-Vista Manager EX
20. Reboot the system.

Install the new version

21. Execute the Vista Manager EX installation program ‘atvmex*XXX*b*XX*w.exe’.

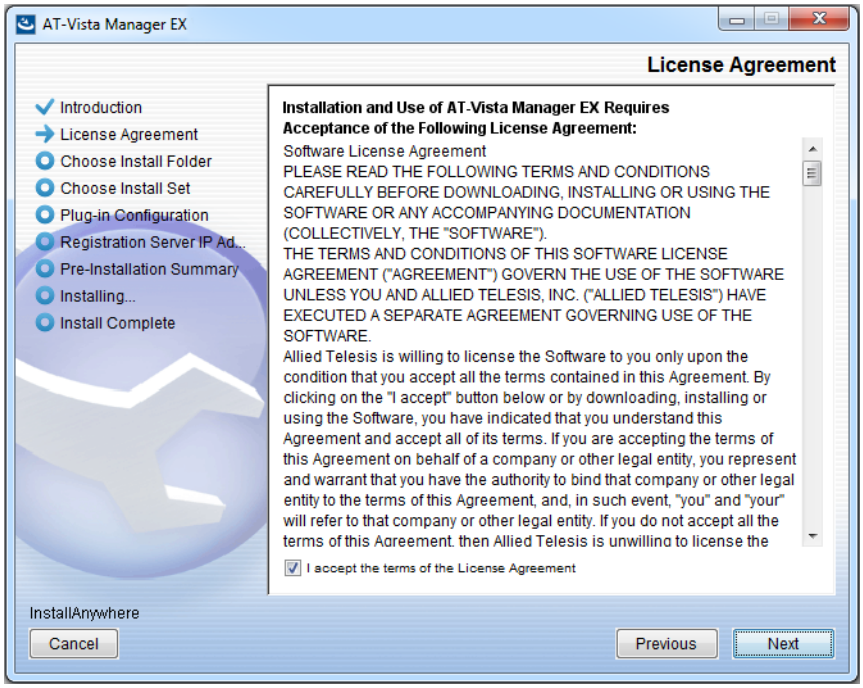
Note: You must have administrator privileges to run the installer.

22. The **Introduction** dialog displays:



This wizard will guide you through the installation of the latest version of Vista Manager EX. Click **Next**.

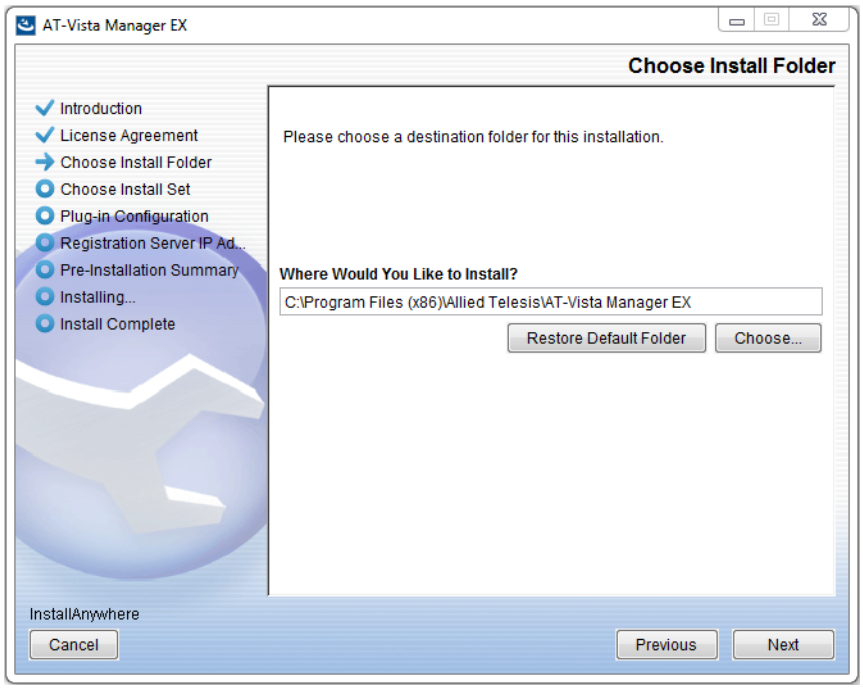
23. The **License Agreement** dialog displays:



Read the software license agreement terms and conditions. If you agree to accept the terms of the license agreement:

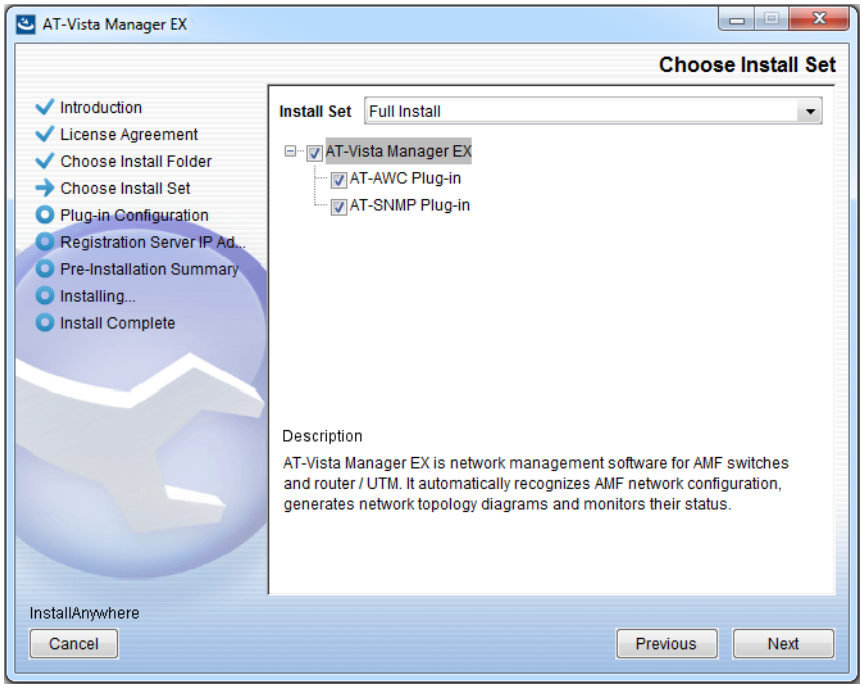
- Click **I accept the terms of the License Agreement**
- Click **Next**

24. The **Choose Install Folder** dialog displays:



Select a destination location and click **Next**.

25. The **Choose Install Set** dialog displays:

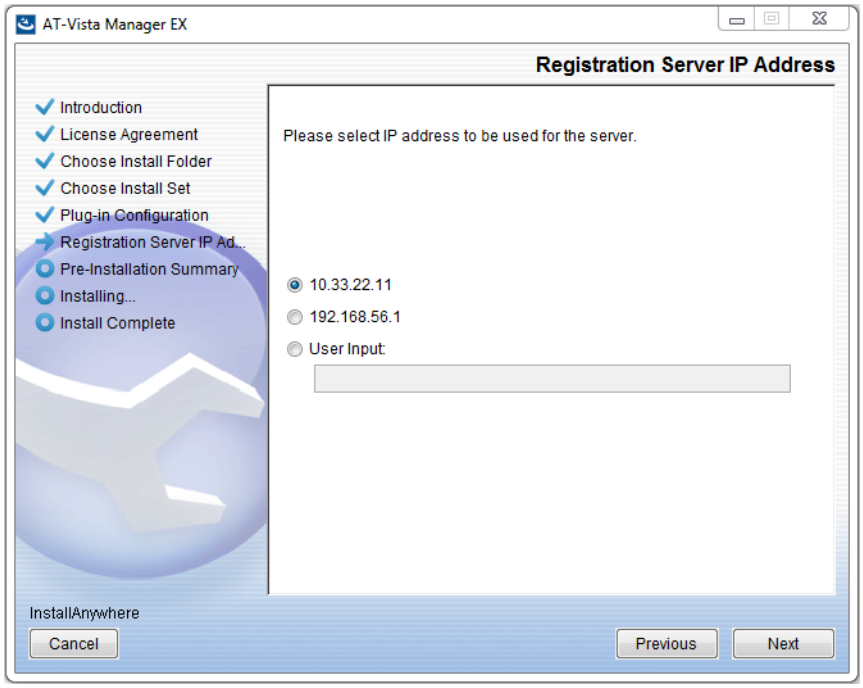


Select **Full Install** from the drop down list. By default all plug-ins will be selected. Clear the check box for any plug-ins you do not wish to install. Click **Next**.

26. The **Plug-In Configuration** dialog displays:

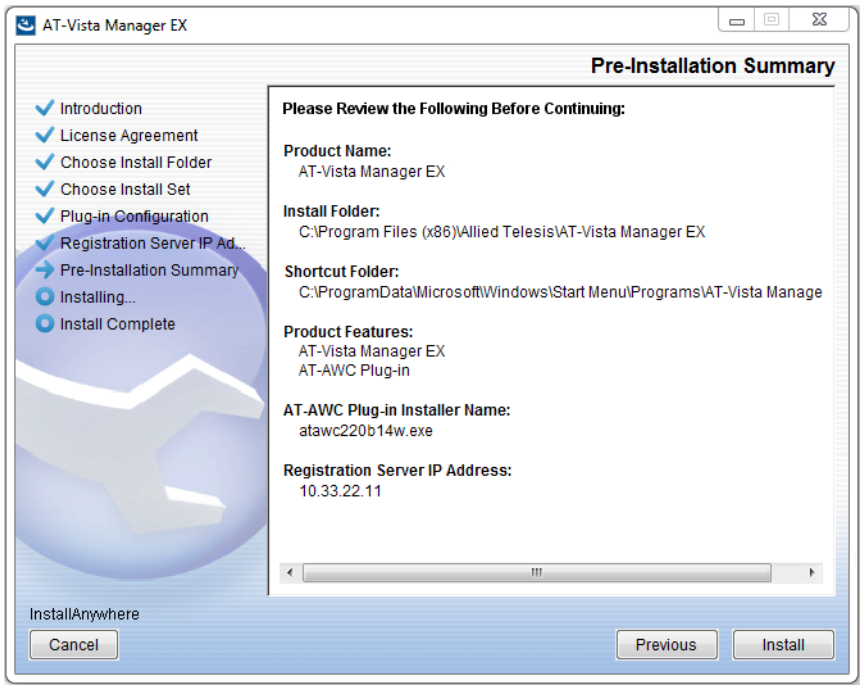
Select **Do not create a public key** unless you are intending to use the plug-ins in standalone mode. For more information on standalone mode, refer to the Installation Guide. Click **Next**.

27. The **Registration Server IP Address** dialog displays:



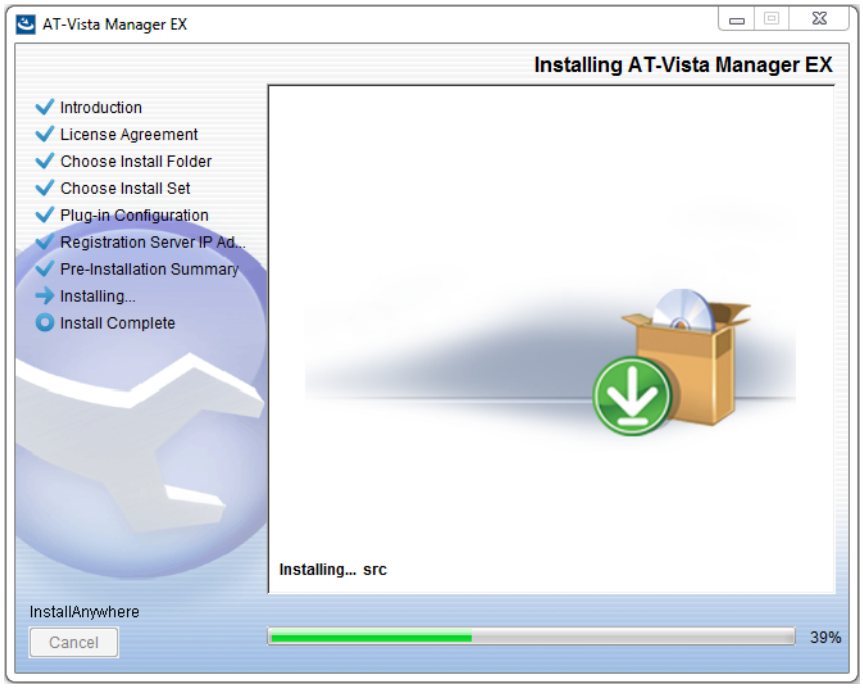
Either select from the list of IP addresses already configured on the Windows machine, or input a valid IP address. Click **Next**.

28. The **Pre-Installation Summary** dialog displays:

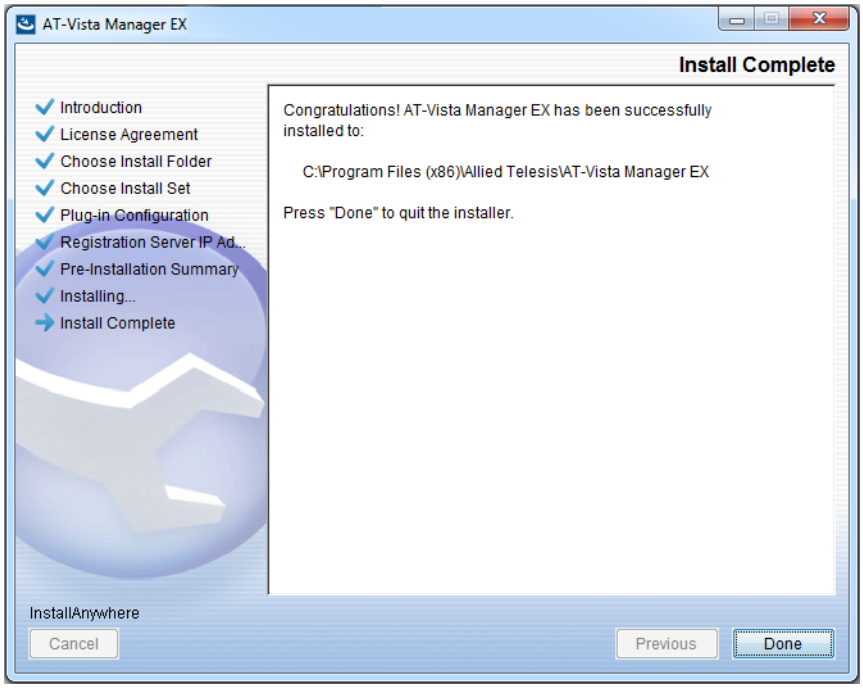


Check that your Product Name, Install Folder, Shortcut Folder, Product Features, Plugin Installer Name and Registration IP Address are correct, and then click **Install**.

29. The **Installing...** dialog displays:



30. Once the installation is complete you will see the **Install Complete** dialog:

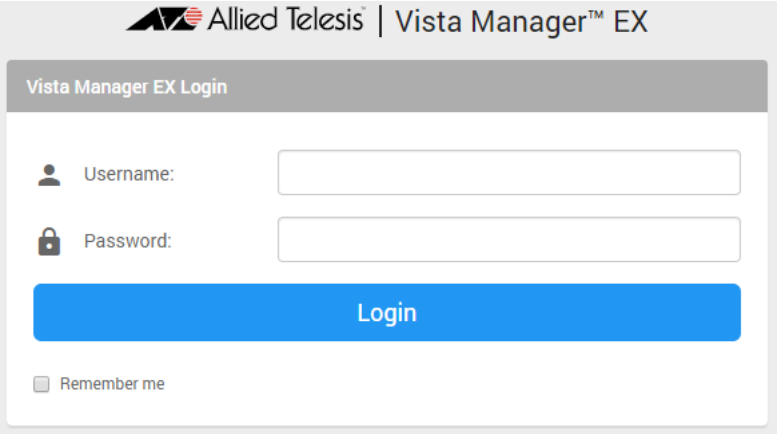


Check that the installation has completed successfully and click **Done**.

Restore the Vista Manager database

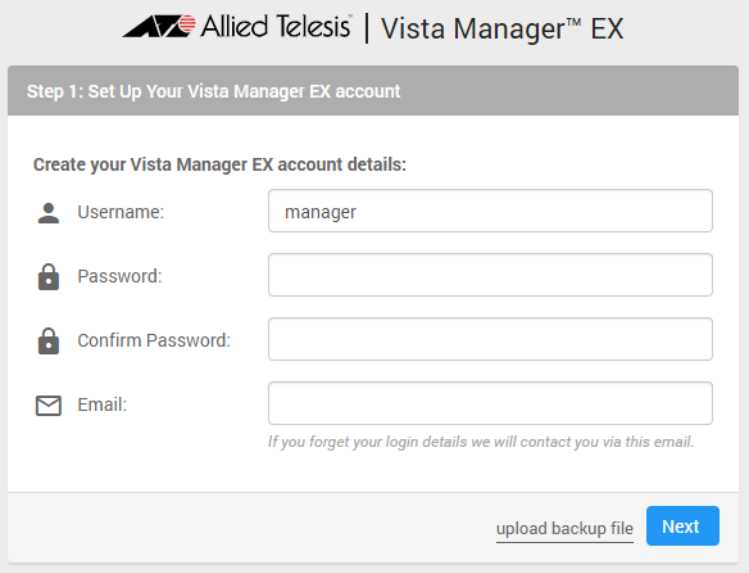
After the upgrade is complete, you need to restore the Vista Manager database. To do this, use the following procedure.

31. Login to Vista Manager.



Enter the **Username** manager and the **Password** friend. Click Login.

32. Click on upload backup file.



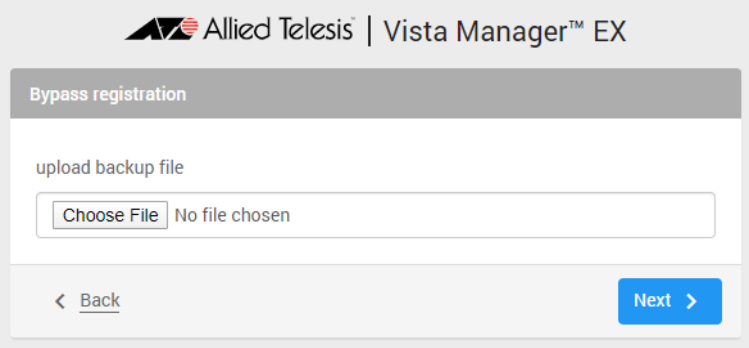
Caution

Your serial number and license information are part of your database backup. If you upload the backup file when upgrading, you will keep the same serial number, and your licensing will continue to work without interruption.

However, if you configure a new instance of Vista Manager EX, without uploading your backup, a new serial number will be generated, and your existing licensing will no longer work. You will need to contact Allied Telesis support to generate a new license.

Therefore, it is STRONGLY recommended that you upload your database backup to ensure your licensing keeps working.

33. Select the database backup to upload. Click on Choose File, and browse to your Vista Manager database backup. Click Next. The Vista Manager database will be restored.



Restore the SNMP plug-in

34. If you have the SNMP plug-in installed then log on locally to the Vista Manager EX server.

35. Stop the SNMP server services using the shortcut or by running the following command line.

    "<*Vista Install Path*>\Plugins\AT-SNMP\NetManager\bin\svrcmd.bat" svrstop

36. Run the restore utility by using the shortcut or by running the following command line.

    "<*Vista Install Path*>*Plugins\AT-SNMP\NetManager\bin\SMRestore.exe*"

    Follow the instructions on the screen.

Restore the AWC plug-in

37. If you have the AWC plug-in installed then log on locally to the Vista Manager EX server.

38. Stop the AWC server services using the shortcut or by running the following command line.

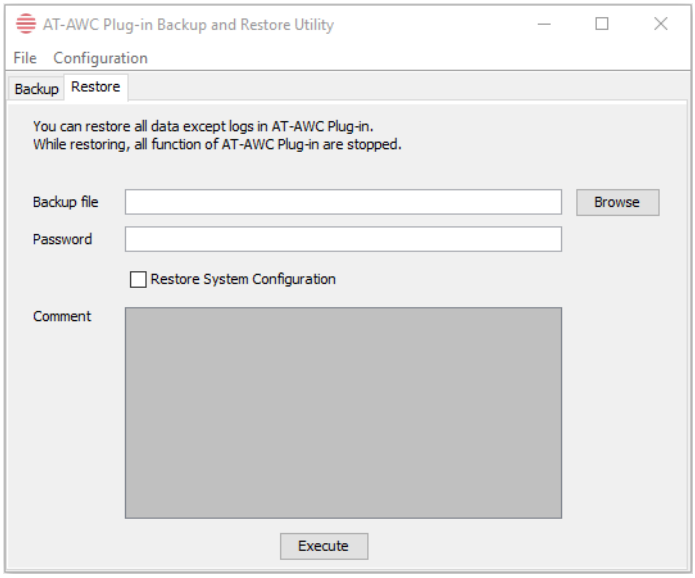
    "<*Vista Install Path*>\Plugins\AT-AWC\root\stopserver.bat"

39. Run the backup/restore utility by using the shortcut or running the following command line.

    "<*Vista Install Path*>\Plugins\AT-AWC\tools\maintenance\maintenance.bat"

40. Select the restore tab on the dialog and follow the instructions on the screen.

Note: By default, restoring the AWC database will not restore the system configuration. You can restore the system configuration by checking the Restore System Configuration checkbox in the backup/restore utility.



We recommend that you check the Restore System Configuration checkbox, as it will allow you to restore the following system configuration settings:

- Database Settings
  - « Maximum Memory Usage
- Data Retention Period Settings
  - « Associated Client History
  - « Client Location Estimation History
  - « IDS Report History
- Network Map Settings
  - « Wireless Client Update-Interval
- Client Location Estimation History data

The system configuration contains settings that are tailored to the machine that created the backup. If you are restoring the backup on a different machine, particularly if that machine has a lower specification, it is recommended not to restore the system configuration.

Note: The default location of <*Vista Install Path*> is **C:\Program Files (x86)\Allied Telesis\AT-Vista Manager EX**

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