Allied Telesis



Release Note for Vista Manager EX Software Version 3.7.x

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Acknowledgments

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What's New in Vista Manager EX v3.7.0

Introduction

This release note describes the new features in Vista Manager EX[™] v3.7.0. It covers Vista Manager EX plus the optional Autonomous Wave Controller (AWC) and SNMP plug-ins, and Allied Intent-based Orchestrator (AIO).

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 licenses.

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Vista Manager SNMP plug-in

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

Prior to version 3.7.0, the Windows-based version of Vista Manager supported a lowercase URL for registering the plug-in. If you are upgrading from an earlier version, or porting to a different platform, please re-register the SNMP plug-in using a mixed-case URL.

Server URL: https://<*ip-address*>:6443/NetManager where <*ip-address*> is the IP address of the SNMP plug-in.

New Features and Enhancements

This section summarizes the new features added to Vista Manager EX v3.7.0:

- "Improved syslog server support" on page 4
 - « "Syslog message filtering" on page 4
 - « "Syslog rules" on page 6
 - « "Syslog forwarding" on page 8
- "AMF Security (AMF-Sec) support" on page 9
 - « "Alarms on the integrated map" on page 9
 - « "Alarm recovery" on page 11
- "DPI learning and application sharing support" on page 12
- "Plug-in certificate fingerprint verification" on page 17
- "New AWC Plug-in functionalities and settings" on page 18
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 - « "AMF application proxy support" on page 18
 - « "Proxy ARP support" on page 19
 - « "DFS channel support" on page 20
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Improved syslog server support

Applicable to all Vista Manager installations.

From version 3.7.0 onwards, the syslog server feature is extended to support syslog message filtering, syslog forwarding, and syslog-based rules that trigger emails or alarms. Admin users will be able to create, edit, disable, and delete rules from the rules table. Syslog rule alarms will appear on the network map and can be dismissed.

Syslog message filtering

Event Log	Event Archive	Syslog	Reports	Rules		
Syslog					1	∙nth(s) ∨
Facility			Seve	rity		
Select facilit	ty		Se	lect Severity		
Message						
Q Search	exact message					()
Case sensitive.	Supports wildcard query	operators * and	?. Special charac	ters(?.*./) can be included in search	by prefixing with \.	

You can now filter syslog events by whole message content or partial message content, by using multiple wildcards. Details of supported wildcard query operators and special characters are as follows:

- A question mark (?) is used for a single character.
- An asterisk (*) is used for multiple characters.

Event Log	Event Archive	syslog Reports	Rules		
Syslog			7	Las	t 3 Mont
Facility		Sev	erity	Process ID	
Select facility	1	S	elect Severity	Enter process II)
2 peer*					
Q Search b	ports wildcard query operative vildcard query	itors * and ?. Special charac	sters(?,*,/) ca	2,2	85 of 5,00
Timestamp 👻	Facility 🗘	Severity \$	App Na	Message 🗘	
16:25:13 2021-07-06	User Level	Notice	IPSec	peer authentication	failed
16:25:13 2021-07-06 16:25:06 2021-07-06	User Level	Notice	IPSec alist	peer authentication	failed
16:25:13 2021-07-06 16:25:06 2021-07-06 16:25:00 2021-07-06	User Level User Level User Level	Notice Notice Notice	IPSec alist IPSec	peer authentication peer authentication peer authentication	failed failed failed

- A backslash (\) is used to escape any special characters (?, *, /) after it.
- When a backslash is expected to be part of the message to be matched on, escape it with an additional (preceding) backslash.
- When an asterisk is expected to be part of the message to be matched on, escape it with a preceding backslash.

Event Log	Event Archive Syslog	Reports Rules	
Syslog		1	Last 3 Month(s) v
Facility		Severity	Process ID
Select		Select Severity	Enter process ID
<u> </u>			
Port	*eth?	actial observators (2± 0 account	Ø
asiti	Keyword ()	Jecial characters(r,*y) can a	305 of 5,000,000 🛈 🖞
Timestamp	▪ Facility ≑ Severit	y 🗢 App Nart	Message 🗘
16:07:39 2021-07-06	User Level Notic	e NSM	Port down notification received for eth2
16:07:24 2021-07-06	User Level Notic	e NSM	Port up notification received for eth1
16:07:16 2021-07-06	User Level Notic	e NSM	Port down notification received for eth1
	Event Log Event Archive	Syslog Reports Rule	es
	Syslog		
	Facility	Severity	Process ID
		Select Sev	Enter proces
	question\?mark		
	ositive. Supports	ators * and ?. Special characters(?,*/)) can b
	Timestamp 🝷 Facility 🗘	Severity 🗘 Ap	pp N. Message ≑
	16:08:44 2021-07-06 User Level	Notice ro	question?mark

Note: This filtering functionality is case-sensitive.

Syslog rules

Syslog rules work similarly as the existing event rules. Any received syslog that matches a rule will trigger the action associated with the rule. Create a syslog rule based on the syslog message filter from the syslog tab page. When creating a single rule, configure up to two of the following actions:

- email notification
- dismissible alarm
- no action



- 1. Use the syslog message filtering to search for messages of your choice.
- 2. Next, select a hostname.
- 3. Click Create Rule. This opens up the side panel.
- 4. Enter a rule name.
- 5. Configure a first action for email notification.
- 6. Select a recipient group.
- 7. Select a trigger interval time.
- 8. Configure a second action for dismissible alarm.
- 9. Click Save.

Create Rule	
Rule Name *	
peer TB130	4
Match Criteria *	
 Use filters and message to generate mat criteria. Keyword search is excluded. 	ich
Message	
peer*	
Hostname	
tb130	
Action 1	
Email Notification	5
Recipient group	
All (6 users)	6
Trigger Interval	
10 mins	7
Action 2	
Dismissible Alarm	8
	9
Cancel	Save

To view a list of syslog rules, navigate to the Rules tab page. Here, you can also disable a rule, update its settings, or delete it.



Syslog rule - email notification

On the **user management** page, a new toggle button enabled by default will be present for all users. This setting determines whether a user will receive an email when a syslog matches a syslog rule configured with email notification.

Receive Event and Syslog Rule email notifications



As a non-admin user, you can change this setting only for yourself. Admin users can enable/disable email notification for all users.

Syslog rule - dismissible alarm

A bell icon will appear on the network map for a device that sends a syslog matching a rule. Click on the bell icon to open up the side panel displaying its syslog details. Here, you may also choose to dismiss the alarm.



Syslog forwarding

As an admin user, you will have the option to configure syslog forwarding to an external server. This functionality forwards all received syslog messages to a specified syslog server, regardless of any rules configured. Only one external syslog server is supported.



Note: The source address of a syslog cannot be retained to its external server.

- 1. From the Events menu, navigate to the **Syslog** tab page.
- 2. Click on the Syslog settings gear icon.
- 3. Check the **Relay syslogs to external server** option.

- 4. Enter the relay server address and port number.
- 5. Click Save.

AMF Security (AMF-Sec) support

Applicable to all Vista Manager installations.

From version 3.7.0 onwards, the existing alarm notification will be extended to support both AlliedWare Plus devices and wireless devices by leveraging on syslog messages from the AMF Security (AMF-Sec) server.

Previously, Vista Manager EX only shows alarms on the integrated map for blacklist security events on AlliedWare Plus devices. This feature now covers both blacklist and whitelist security events.

For the feature to be fully functional, configure all your AMF-Sec servers to send syslog messages to Vista Manager EX. All syslog messages from the AMF-Sec servers will then appear on the **Event > Syslog** page.

Note: In order to process syslog messages from the AMF-Sec server, Vista Manager EX will have some built-in event rules not visible to users. Because of this, if a user creates a rule with the same name in the event log or syslog table, an error message will display: "Duplicate rule name used. Note may be a duplicate of a hidden system rule name."

Alarms on the integrated map

Vista Manager EX will convert only specific actions that match AMF-Sec syslog messages into alarms (high severity event logs) and display them on the map. These specific actions are:

- Blacklist
 - Security Block
 - K LinkDown
 - « Quarantine VLAN
 - Security Logging (no-action, reporting only)
- Whitelist
 - « Auth Failed (deny)

Any other syslog messages from the AMF-Sec server not mentioned above will not be converted. This means the user will not be able to see successful authentication events in the Vista Manager event log table, but those events are present in the Syslog tab page.

The alarms will be associated with devices based on IP addresses and hostnames from the AMF-Sec syslog message. If one AMF-Sec syslog message can be associated with multiple devices, all devices will have their own alarm. If an alarm cannot be associated with any device on the map, it will not be visible on the map.

Note: Unmanaged devices are not always visible on the map, such as TQ devices without the AWC plug-in. In this case, alarms will still be associated to the TQ device, but can only be viewed by the zooming into the map. Alternatively, add the AWC plug-in to manage the TQ which then makes it visible by default.

The alarms will keep showing on the map until either

- a user dismisses them proactively, or
- a recovery AMF-Sec syslog message dismisses them automatically.

Users with read/write permissions to the associated device can dismiss the alarms in 2 ways:

ଚ		2								
6	Q Key	word		All	Alarm	Critical	Abnorma			
•		Timestamp 👻	Device		No	tes	Messag		Actio	on
0		11:40:00 2017-11-07	Simulated g	juest 1		1	Device	:t port1.0.1 🏮 🛕	Dismiss	:
÷.		11:40:00 2017-11-07	Simulated g	guest 1		1	Device(Jort1.0.1 🕕 🋕	Dismiss	:
		11:35:00 2017-11-07	Simulated g	juest 1		1	Device	t1.0.1 🚯 🏨	Dismiss	:
		11:30:00 2017-11-07	Simulated g	juest 1		1	Device	ئى VLAN10 👔 🌲	Dismiss	:
		11:30:00 2017-11-07	Simulated g	juest 1		1	Device(c	VLAN10 🚺 🌲	Dismiss	:
		11:25:00 2017-11-07	Simulated g	juest 1		1	Device	Jrt1.0.1 👔 🌲	Dismiss	:
		11:25:00 2017-11-07	Simulated g	juest 1		1	Device	rt1.0.1 😗 🏚	Dismiss	:

from the event log table, or

• from the side panel of the map.



Alarm recovery

When a user performs an action in the AMF-Sec server, the AMF-Sec server will send syslog messages to Vista Manager EX to indicate a status change on the alarm.

Vista Manager EX automatically dismisses an alarm and removes it from the map, if they are event recovery types such as:

- DISCONNECT
- ACCEPT

A "recovered" event log will then be generated with detailed information.

Feature limitations

There are some feature limitations to take note of:

- As syslog messages are based on UDP protocol, this functionality can be unreliable at times, meaning messages could sometimes go missing.
- In the event that the Vista Manager EX syslog server goes down, syslog messages lost during the downtime will not be recoverable.
- If the AMF-Sec server changes its syslog format, this feature will fail to work as there is no way to detect such failures.
- AMF-Sec alarms that depend on the DISCONNECT action will not be removed when the parent device reboots or leaves the network. This is because the AMF-Sec server does not send a corresponding disconnect message with a device reboot, therefore causing the alarms to remain on the map.
- AMF-Sec will not send syslog messages for the IP-FILTER action. If sourced from a non-AMF device, Vista Manager EX will not be able to detect this action.
- Some changes have been applied to the event messages from the original blacklist feature. Therefore for any event filtering relying on event messages, the existing event filter may appear broken after upgrading to version 3.7.0.

DPI learning and application sharing support

Applicable to all Vista Manager installations with the AIO license.

From Vista Manager EX version 3.7.0 onwards, DPI learning and application sharing will allow branch office routers (clients) to gain access to applications on a head office router (server). Applications learned on the servers can be distributed to the clients, thus allowing features like Internet Breakout to be enabled on a client.

- AR3050S and AR4050S can be used as server devices that have advanced DPI engines available. This means that they can share their applications with other devices.
- AR2010V and AR2050V can be client devices. They will use a server device to send them the application data.
- This functionality requires AR-series devices to run AlliedWare Plus 5.5.1-1 or later.

Configure application sharing via 3 options:

- Traffic map context menu
- Traffic side panel
- Asset Management > Applications tab of individual devices

Option 1: via Traffic map context menu



- 1. Navigate to the traffic map.
- 2. Select at least one client router.
- 3. Right-click on the selected router(s) and select **Application Sharing** from the menu.

4. This opens up the Application Sharing side panel. You may remove or add more client devices here.



5. Next, select a server device from the dropdown list. Take note of the current DPI state of the server.

×	ing	Application Sha	C	Ж	ð	~	Traffic	•4
eatures that use applications , NAT rules, SD-WAN rules. area.	onfiguration may affect fea Breakout, Firewall rules, M devices must share AMF a	G Changes to DPI c including Internet Server and client						
		Select Server Device			5			
8	rer 5	1_s50-3050-SER\				\$50.3		
	lishing is disabled	Server application pub						
6	ed: Standalone	Device DPI Disabl						
Configure Device DPI		Client Devices (1)	_					
Action	Server	Client Device	11-2010	3_s	Г	LIEN	L-2050-C	2_s31
i	None	2_s31-2050						
9_								

- 6. Click on the **Configure Device DPI** gear icon button if device DPI is disabled or to configure its settings.
- 7. Turn on all settings to ensure a successful application sharing setup.

8. Click Apply Changes.



9. Finally, click **Save** on the side panel.

Option 2: via Traffic side panel



- 1. Navigate to the traffic map.
- 2. Select a supported server/client device. This opens up the Traffic side panel.

- 3. Click on the **Device DPI** gear icon button if device DPI is disabled or to configure its settings.
- 4. If a server device was selected, carry out Steps 7-8 in Option 1.
- 5. If a client device was selected, fewer DPI settings will be displayed. Select a **Remote** provider to choose a server next.
- 6. Select a server from the dropdown list.
- 7. Click Apply Changes.



Option 3: via Asset Management > Applications tab



- 1. Navigate to Asset Management. Select a supported device from the list.
- 2. Next, go to the **Applications** tab of that device.

- 3. Click on the **Configure Device DPI** gear icon button if device DPI is disabled or to configure its settings.
- 4. If a server device was selected, carry out Steps 7-8 in Option 1.
- 5. If a client device was selected, fewer DPI settings will be displayed. Carry out **Steps 5-7 in Option 2**.

With DPI learning and application sharing configured and running successfully, you can then enable Internet Breakout for specific applications on clients from the Traffic side panel. Here, you can also see what applications have been learned from the server.

- 1. Navigate to the network map.
- 2. Select traffic map mode.
- 3. Select a client device that you wish to enable Internet Breakout for.

4. On the Traffic side panel that launches, enable Internet Breakout accordingly.



Note: Application sharing (between a server and clients) will only be functional within an AMF area. It is possible to have multiple servers in different areas, but the clients of each server must be located in the same area as the server.

Plug-in certificate fingerprint verification

Applicable to all Vista Manager installations.

From Vista Manager EX version 3.7.0 onwards, when setting up or changing the network master or controller IP address, it is now a mandatory step to verify that the certificate fingerprints match those found in the **show http** command on the CLI.

Note: The master is required to have a version of AlliedWare Plus running to check the fingerprints.

Chan 2: Cat I	In Veux Metwork		
Step 3: Set u	IP YOUR NETWORK		
Network Mast	er or Controller		
10.3			
Please verify t of this AMF Ne	hese certificate fingerprints r etwork Master or Controller	natch those found in 'show ht	tp' at CLI
SHA1			
A9:99:60:F2:0	2:CE:C2:2B:04:82:91:14:28	:B9:57:E6:B2:7A:07:CE	
SHA256			
48:76:FB:FF:0	8:25:EA:2A:E4:21:08:6F:FF	DD:BB:DE:3C:A6:9C:41:20:8	87:01:CE
E7:55:8D:CE:4	43:D8:0F:05		
Confirm t	ingerprints match		
	able as break as the	Unload backup file	Mart

New AWC Plug-in functionalities and settings

Automatic radio optimization

Applicable to all Vista Manager installations with the AWC plug-in

From Vista Manager EX version 3.7.0 onwards, the AWC plug-in will have a new page **Wireless Concierge** added to the wireless configuration submenu. This feature promotes channel blanket (CB) optimization by allowing users to suggest:

AP channel that reduces the interference between CBs. Here, it uses rogue APs' RSSI data for the last 3 hours. You will be able to suggest a CB channel even if the same CB is used on two or more floor maps.



• **AP power level** that minimizes the number of beacons received by clients to retain the coverage area as much as possible.



The Wireless Concierge page also lets you to display multiple floor maps of selected management groups. We recommend that you use browsers other than Internet Explorer for multiple floor maps display mode to be fully functional.

AMF application proxy support

Applicable to the AWC plug-in - Access Point: TQ6602

From Vista Manager EX version 3.7.0 onwards, the AWC plug-in will support AMF Application Proxy on TQ6602 devices. This feature requires the AP to be running firmware version 7.0.1-1.1 or later.

Similar to the TQ5k series, the AMF Application Proxy specifications will be displayed in the MAC Access Control form when selected on the edit page.

Note: The secondary radius server setting is displayed here, but not currently supported.

02				Edi
^o (Multiple SSID) Configuration			
🛜 Radio	o 1 VAP List		S VAP	
VAP 1	✓ Enable	VAP Status	✓ Enable	
VLAN ID	1	VLAN ID	1	
SSID	Default-1	SSID	Default-1	
Security	None	Broadcast SSID	✓ Enable	
		Security	None	
		MAC Access Control	AMF Application Proxy	
		AMF Application Proxy Server Primary IP Address	1.1.1.1	
		AMF Application Proxy Server Primary Secret	******* 💿	
		AMF Application Proxy Server Port Number	1812	
		Critical Mode	🗙 Disable	
		Inactivity Timer	300 [sec]	
		DTIM Period	1 [time]	

Proxy ARP support

Applicable to the AWC plug-in - Access Point: TQ6602

From Vista Manager EX version 3.7.0 onwards, the AWC plug-in will support proxy ARP on TQ6602 devices. This feature requires the AP to be running firmware version 7.0.1-1.1 or later.



Proxy ARP will be displayed (disabled by default) when you select:

- Dual[11ax] in the AP profile type
- TQ6602 model in the CB profile

DFS channel support

Applicable to the AWC plug-in - Access Point: TQ6602

FCC country codes have been added for Dual[11ax] AP profile types from version 3.7.0 onwards. As DFS channels vary from country to country, DFS channels corresponding to the selected country will then become available in the Auto Channel Selection setting. The following country codes are:

- BR Brazil
- ID Indonesian
- MX Mexico
- US United States

Channel Bandwidth

	Allied Telesis Vista Manage	er EX	Q Search network	e manager
		Radio 1 Radio	2 Add	Cancel
Pro	file Configuration			
	AP Profile Name*			
	Profile Type	Dual[11ax] This is for a dual-band 802.11ax model. (AT-TQ6602)		
	Country	BR - Brazil		
	Series	TQ Series	and a second a	~
Rad	dio Configuration			
		🛜 Radio 1		
	Radio Transmission*	Enable O Disable		
	Mode			

							-	
	1ch	2ch	3ch	4ch	5ch	6ch	7ch	8ch
Auto Channel Selection	9ch	10ch	11ch					
Maximum Wireless Clients	200							

Increased VAPs for channel blanket

20MHz O 40MHz

Applicable to the AWC plug-in - Access Point: TQ6602

The AWC plug-in now lets you create up to sixteen channel blanket virtual access points (VAPs) for each radio, for a total of two.

AWC Client Filter - Extended MAC address registration

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

From version 3.7.0 onwards, Vista Manager EX will be able to detect MAC addresses of all Bring Your Own Device users in the GIGA school networks. The AWC Client Filter utility has been developed for this purpose. With permission granted by the AWC administrators, teachers can login to the AWC Client Filter with a user ID and password. They can easily collect MAC addresses of their students' devices and monitor their connection status. Allow/deny connection to the AP can then be set for the collected MAC addresses.

MIB browser support

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

From version 3.7.0 onwards, the SNMP plug-in will support MIB browser functions to see values of the registered MIB variables. Supported functionalities are **device details page**, **MIB monitor**, **MIB browser**, and **select index**. MIB walk is currently not supported. The basic user interface of the MIB browser page will look similar to the network tree page.

As a user, this feature offers you a range of functionalities:

- access the MIB browser page
- see the compiled and available MIB variables in a tree format
- select MIB variables that you want to monitor
- check MIB variables in the MIB browser page
- check MIB variable contents on the device details page

Device detail page

Click on the gear icon and select the **MIB monitor** menu to open the MIB monitor. This page displays the monitored MIB variables and their current values. Click on the **MIB variable** button to display the MIB variable page. Here, you can configure the MIB variables that you wish to monitor.

Name : Host Name : Description : Network Address :		Show	10 v entries Search	n: C MIB Value値 👙	e Unit
Trap Addresses :	UUTAEB A00301		hrMemorySize 0	1864528	KBvte
Vendor Name	Allied Telesis R&D Center K.K.	0	aval InTime 0	6-60-60-60	
Polling Interval :	10minutes 00seconds (Auto)	0	sysoprime.o	0.53.53.53	
NMP parameter nam	public	0	sysObjectID.0	atAR4050SRouter	
NMP parameter nam	private	O	sysName.0	amf134	
Status :	Responded		sysDescr.0	Allied Telesis router/switch, AW+ v5.4.5-0.1	
		0	ifOutOctets.5005	1110391912	
			ifOutOctets.5004	2067488404	
		0	ifOperStatus.5001	down(2)	
		Ο	ifInUnknownProtos.5003	3471546512	
		O	ifInOctets.0	NO SUCH OBJECT	
		Show	1 to 10 of 21 entries		
			Previou	ıs 1 2 3	Ne

MIB monitor

Add or delete any MIB variables that you wish to monitor. There is no editing functionality. Only leaf nodes can be monitored, up to a maximum of 25 MIB variables. Leaf nodes are MIB variables without children.

Show	10 v entries Search		₽
	MIB Variable	MIB Value値 🍦	Units
Ο	hrMemorySize.0	1864528	KBytes
0	sysUpTime.0	6:59:59.59	
\mathbf{v}	sysObjectID.0	atAR4050SRouter	
Ο	sysName.0	amf134	
0	sysDescr.0	Allied Telesis router/switch, AW+ v5.4.5-0.1	
Ο	ifOutOctets.5005	1110391912	
Ο	ifOutOctets.5004	2067488404	
Ο	ifOperStatus.5001	down(2)	
0	ifInUnknownProtos.5003	3471546512	
0	ifInOctets.0	NO SUCH OBJECT	
4			•
Show 1	1 to 10 of 21 entries Select Previou	ed 1 row Is 1 2 3	Next

MIB variables are selected in the MIB browser and displayed as they are. If the MIB variable does not exist on the actual device, it is not supported. However, it is possible to set them even if they are not supported.

Table display is not supported. Please individually number the MIB variables that you wish to display.

The monitor has four buttons:



- Select All selects all MIB variables that are being monitored.
- Clear All deselects all selected MIB variables.
- Add adds selected MIB variable(s) you want to monitor in the MIB browser.
- Delete deletes selected MIB variable(s). Please note that there is no confirmation of deletion.

MIB browser

On the MIB browser, the MIB node tree displays compiled and available MIB variables hierarchically by its object ID. Each node is represented by a single icon and a node name. The node icon is a smaller icon appearing on the left side of the node row and indicates the type of node. The node name, also known as the MIB variable name, is the administrative name of the node.



MIB node attributes display basic information about the selected MIB node in the tree view. They are detailed as follows:

- Node name displays the MIB variable name.
- Access displays the access rights of the MIB object. Currently, ACCESS of OBJECT-TYPE for SMIv1 and MAX-ACCESS of OBJECT-TYPE for SMIv2 are applicable.
- Status displays the implementation support status of MIB objects, ie. mandatory, optional, etc.
- **Syntax** displays the data type of the MIB object.
- Value list lists the names described when numeric name values are used. For example, "syntax" is used for integer, bits, etc.
- Units displays the unit of the MIB value when the units clause is present.
- OID(dot notation) displays the object ID that uniquely identifies the MIB object.
- OID(ASN.1 notation) displays the full path of the MIB object.
- Module name indicates the name of the MIB module that contains the MIB object.
- **Description** displays descriptions and comments about the MIB object.

The information of a MIB node is described in the MIB file before compilation. Please refer to SMIv1 and SMIv2 for the description of the MIB file.

Select index page

Acquire the value of the MIB variable selected in the MIB browser from the actual device and list it. Select the MIB variable of the index that you wish to monitor with reference to the displayed MIB value.

Select	t Index			×
	MIB Variable	MIB Value		\$
0	ifOperStatus.1	up(1)		
0	ifOperStatus.8	down(2)		
0	ifOperStatus.9	down(2)		
0	ifOperStatus.301	up(1)		
۰	ifOperStatus.5001	down(2)		
0	ifOperStatus.5002	up(1)		
0	ifOperStatus.5003	down(2)		
0	ifOperStatus.5004	down(2)		
0	ifOperStatus.5005	up(1)		
0	ifOperStatus.5006	down(2)		
0	ifOperStatus.5007	up(1)		
0	ifOperStatus.5008	down(2)		
			Cancel	ОК

In scalar type variables, the index is always ".0". Just click **OK** as it is.

Select Index				×	
	MIB Variable		MIB Value		¢
•	hrMemorySize.0		1864528		
				Cancel	ОК

Important Considerations Before Upgrading

This section describes changes that may affect Vista Manager EX or your network's behavior if you upgrade. Please read it carefully before upgrading.

AMF software version compatibility

- All AMF nodes must run version 5.4.9-0.1 or later.
- Some of the latest functionality is only available on AMF nodes running version 5.5.1-1.1 or later.

Wireless AP software version compatibility

- TQ6602 APs with firmware version 7.0.0-1.3 or later. Some of the latest functionality is only available on APs running version 7.0.1-0.1 or later.
- TQ5403 series APs with firmware version 5.0.x or later. Some of the latest functionality is only available on APs running version 6.0.1-6.1 or later.
- TQ4x00/3x00/2450 APs with firmware version 4.2.x

Internet Explorer 11 compatibility

When using the Vista Manager EX 3.7.0 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 EX 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 not available on the standalone Vista Manager appliance. They are available on all other Vista Manager implementations.

Disabling Internet Breakout disables all PBR rules

Internet Breakout uses policy-based routing (PBR) rules. When you use Vista Manager EX to disable Internet Breakout, it disables all PBR rules, including:

- rules created by SDWAN, and
- rules created by Internet Breakout, and
- rules created manually through the CLI.

Integrated map won't display some links from earlier versions

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 SBx908 GEN1 and x200 devices will not be shown on the integrated map.

Traffic map data not restored

When you are upgrading to Vista Manager EX 3.7.0, traffic map data from earlier versions will not be imported.

Obtaining User Documentation

Vista Manager documentation Installation Guides, User Guides and Release Notes for Vista Manager EX are available on our website, alliedtelesis.com.

AMF documentation

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

- the AMF Feature Overview and Configuration Guide
- the AMF Datasheet
- the AMF Cloud (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.

Backup	
Backing up will save a copy of the Vista Manager EX database of user, system, and network information.	
Backup	

- 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 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.

upload existing profile backup

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

Upload existing backup file



- 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 Windowsbased 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 'atvmexXXXbXXw.exe', with the Xs denoting the version and build numbers.
 - The AWC plug-in is called 'atawcXXXbXXw.exe'.
 - The SNMP plug-in is called 'atsnmpXXXbXXw.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.

Backup Vista Manager EX		×
Are you sure you want to backup Vista Manager EX?		
	Cancel Bac	kup

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

Backup the6.If you have the SNMP plug-in installed then log on locally to the Vista Manager EXSNMP plug-inserver.

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

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"

	Backup and Restore Utility —		\times		
File Configuration					
Backup Restore					
You can backup all (Loading may take ti It may take a few n	data in AT-AWC Plug-in. me on the server during backup. ooments depending on amount of logs.				
Destination path	C:\Users\Administrator\Documents	Browse			
Password					
Password (Confirmation)					
Comment	Input comments to be displayed at restore.				
(* Attention: Comments can be viewed by anyone.)					
Save logs separately					
	Execute				

- 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.
- If a dialogue box prompting you to restart the system is displayed, select Restart the system or Restart later and click the Finish button.
- 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 'atvmexXXXbXXw.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:

🛎 AT-Vista Manager EX	
	Registration Server IP Address
 Introduction License Agreement Choose Install Folder Choose Install Set Plug-in Configuration Registration Server IP Ad Pre-Installation Summary Installing Install Complete 	 Please select IP address to be used for the server. 10.33.22.11 192.168.56.1 User Input
Cancel	Previous Next

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:

🛎 AT-Vista Manager EX	
	Pre-Installation Summary
 Introduction License Agreement Choose Install Folder Choose Install Set Plug-in Configuration Registration Server IP Ad Pre-Installation Summary Installing Install Complete 	Please Review the Following Before Continuing: Product Name: AT-Vista Manager EX Install Folder: C:\Program Files (x86)\Allied Telesis\AT-Vista Manager EX Shortcut Folder: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\AT-Vista Manage Product Features: AT-Vista Manager EX AT-AWC Plug-in Installer Name: atawc220b14w.exe Registration Server IP Address: 10.33.22.11
InstallAnywhere Cancel	Previous

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 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.

Allieo	d Telesis" Vista Manager™ EX		
Vista Manager EX Login			
Username:			
• Password.	Login		
Remember me			

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

32. Click on upload backup file.

Allied Telesis Vista Manager™ EX Step 1: Set Up Your Vista Manager EX account			
Create your Vista Manager	EX account details:		
Lusername:	manager		
Password:			
Confirm Password:			
🗹 Email:	If you forget your login details we will contact you via this email.		
	upload backup file Next		

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.

Allied Telesis Vista Manager™ E	Х
Bypass registration	
upload backup file Choose File No file chosen	
< Back	Next >

Restore the34. If you have the SNMP plug-in installed then log on locally to the Vista Manager EXSNMP plug-inserver.

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

- 1e 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.

€ AT- File C	AWC Plu	g-in Backup and Restore Utility —			×
Backup	Restore				
You can restore all data except logs in AT-AWC Plug-in. While restoring, all function of AT-AWC Plug-in are stopped.					
Backup file				Browse	
Pass	Password				
		Restore System Configuration			
Comr	nent				
Execute					

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

Upgrading Vista Manager on VST-APL

See the Vista Manager Network Appliance (VST-APL) User Guide.

Troubleshooting

See the Troubleshooting chapter in the Vista Manager EX User Guide.

Allied Telesis

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