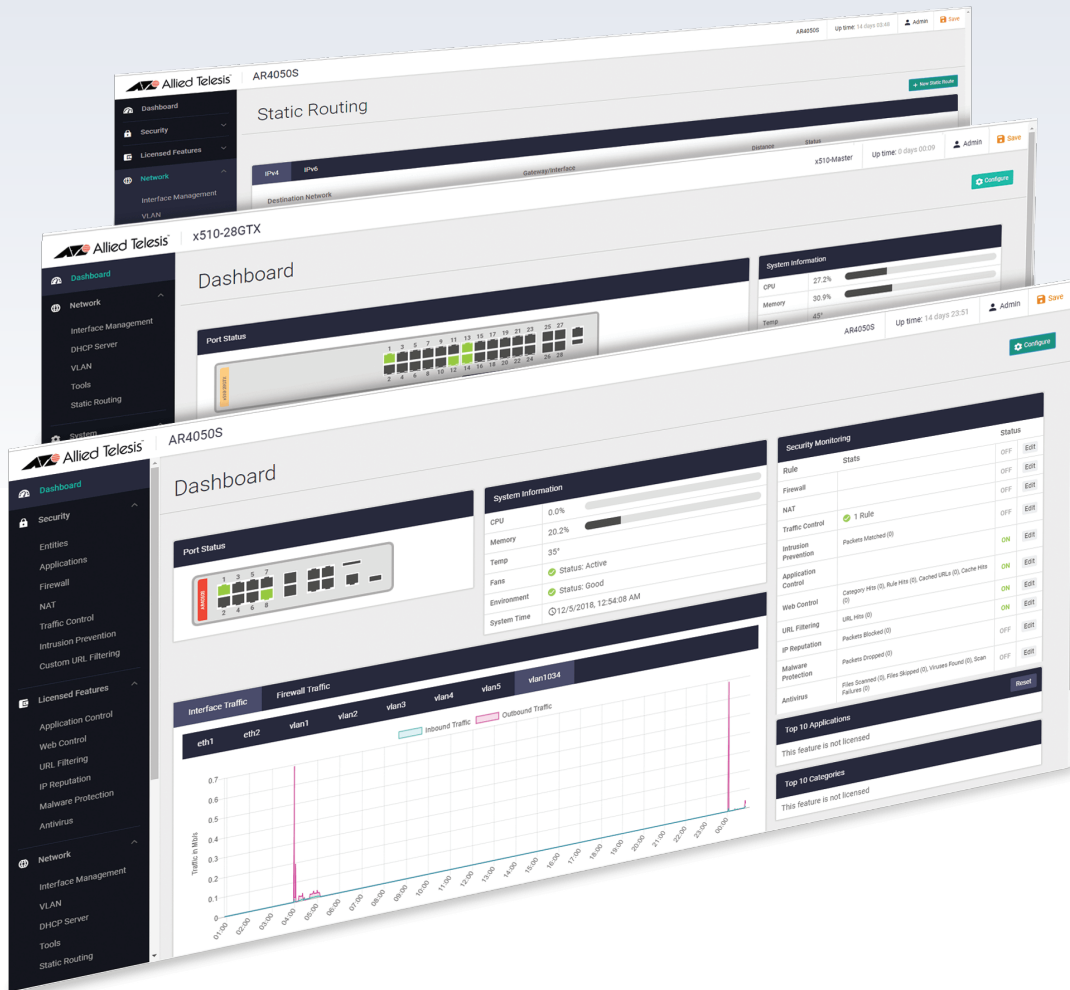


# Release Note for Web-based Device GUI Version 2.4.x



» 2.4.0

**AlliedWare Plus**  
OPERATING SYSTEM

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## Acknowledgments

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# What's New in Version 2.4.0

Product families supported by this version:

SwitchBlade x908 GEN2	IE510-28GSX-80
SwitchBlade x8100 Series	IE300 Series
x950 Series	IE210L Series
x930 Series	IE200 Series
x550 Series	XS900MX Series
x530 Series	GS980M Series
x530L Series	GS970M Series
x510 Series	GS900MX/MPX Series
x510L Series	FS980M Series
IX5-28GPX	AR4050S
x310 Series	AR3050S
x230 Series	AR2050V
x230L Series	AR2010V
x220 Series	AR1050V

## Introduction

This release note describes the new features in the Allied Telesis Web-based Device GUI software version 2.4.0. To use Device GUI version 2.4.0 you must be running AlliedWare Plus 5.4.9-0.1 or later firmware on your device. However some of the new features are only available with 5.4.9-1.x firmware.

You can obtain the Device GUI software file from the [Software Download area of the Allied Telesis website](#). Log in using your assigned email address and password.

For information on accessing and updating the Device GUI, see [“Accessing the Web-based Device GUI” on page 8](#)

The following table lists model names that support this version:

Table 1: Models

Models	Family
SBx908 GEN2	SBx908 GEN2
SBx81CFC960	SBx8100
x950-28XSQ	x950
x930-28GTX x930-28GPX x930-52GTX x930-52GPX x930-28GSTX	x930
x550-18SXQ x550-18XTQ x550-18XSPQm	x550
x530-28GTXm x530-28GPXm x530L-52GPX	x530 and x530L

Table 1: Models (cont.)

Models	Family
x510-28GTX x510-52GTX x510-28GPX x510-52GPX x510-28GSX x510-28GSX-80 x510DP-28GTX x510DP-52GTX x510L-28GT x510L-28GP x510L-52GT x510L-52GP	x510 and x510L
IX5-28GPX	IX5
x310-26FT x310-50FT x310-26FP x310-50FP	x310
x230-10GP x230-10GT x230-18GP x230-18GT x230-28GP x230-28GT x230L-17GT x230L-26GT	x230 and x230L
x220-28GS x220-52GT x220-52GP	x220
IE510-28GSX-80	IE510-28GSX
IE300-12GT IE300-12GP	IE300
IE210L-10GP IE210L-18GP	IE210L
IE200-6FT IE200-6FP IE200-6GT IE200-6GP	IE200
XS916MXT XS916MXS	XS900MX
GS980M/52 GS980M/52PS	GS980M
GS970M/10PS GS970M/10 GS970M/18PS GS970M/18 GS970M/28PS GS970M/28	GS970M

Table 1: Models (cont.)

Models	Family
GS924MX GS924MPX GS948MX GS948MPX	GS900MX/MPX
FS980M/9 FS980M/9PS FS980M/18 FS980M/18PS FS980M/28 FS980M/28PS FS980M/52 FS980M/52PS	FS980M
AR4050S AR3050S	AR-series UTM firewalls
AR2050V AR2010V AR1050V	AR-series VPN routers

## New Features and Enhancements

This section summarizes the new features in the Device GUI software version 2.4.0, on AlliedWare Plus devices running firmware 5.4.9-0.1 or later.

### Local RADIUS Server

*Configure a Local Radius Server and AAA*

From version 2.4.0 onwards, you can use the RADIUS page to configure a Local RADIUS server for authentication, and create your own NAS entries as well as users. You can also enable and disable the server.

A separate AAA configuration tab enables you to specify host servers and create custom AAA groups. You can then add the host servers to the custom groups.

### WAN Configuration: PPPoE

*Create, edit, and delete a PPP interface on a WAN interface, on AR-series firewalls and routers*

From version 2.4.0 onwards, you can use the Interface Management page to create, edit and delete up to five PPP interfaces on an IPv4 WAN interface.

### WAN Configuration: DHCP

*Use DHCP to determine the address of a WAN interface*

From version 2.4.0 onwards, you can use the Interface Management page to use DHCP to determine the address of a WAN interface.

### IPv6 IPoE for the WAN interfaces eth1 and eth2

*Apply a DHCPv6, DHCPv6 PD, SLAAC or fixed configuration to a WAN interface, on AR4050S, AR3050S, AR2050V and AR1050V*

From version 2.4.0 onwards, you can use the Interface Management page to apply a DHCPv6, DHCPv6 PD, SLAAC or fixed configuration to a IPv6 WAN interface. The existing Interface Management page has been split into IPv4 and IPv6 tabs.

Also, IPv6 IPoE is now incorporated into the existing Setup Wizard as another option alongside the existing ones (DHCP, fixed, and PPPoE). As well as the interface configuration, this wizard will configure the DHCPv6 server, DNS and the firewall.

This feature requires AlliedWare Plus version 5.4.9-1.1 or later.

## IPv4 over IPv6

*Transition from IPv4 to IPv6, on AR4050S, AR3050S, AR2050V, and AR1050V*

From version 2.4.0 onwards, you can use the GUI to configure DS-Lite, MAP-E, IP in IP and Lightweight 4 over 6. A new page gives access to both tunnel and softwire configuration.

Also, these IPv4 over IPv6 services are now incorporated into the existing Setup Wizard. As well as the interface configuration, this wizard will configure the DHCP/DHCPv6 server, DNS and the firewall.

This feature requires AlliedWare Plus version 5.4.9-1.1 or later.

## Autonomous Wave Control - Smart Connect (AWC-SC)

*Expand your wireless network without adding data cabling, on SBx908 GEN2, x950, x930 and x530 Series switches, and AR4050S firewalls*

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 from late 2019 on TQ5403 and TQ5403e APs. It will require software version 6.0.1 or later on the APs and software version 5.4.9-1.3 or later on the switch or firewall.

## Wireless management for TQ1402 and TQm1402 Access Points

*Easily manage TQ1402 and TQm1402 APs with SBx908 GEN2, x950, x390 and x530 Series switches, and AR4050S, AR3050S, AR2050V and AR2010V firewalls and routers*

Through Vista Manager mini, the Device GUI enables you to easily control your wireless LAN for TQ-series APs, including radio settings, traffic encryption, user security and access point names. From version 2.4.0 onwards, this includes the new TQ1402 and TQm1402 APs.

This feature requires AlliedWare Plus version 5.4.9-1.3 or later.

## Background Image for Network Map

*Add a background image to the Network Map, on SBx908 GEN2, x950, x930 and x530 Series switches, and AR4050S, AR3050S, AR2050V and AR2010V firewalls and routers*

From version 2.4.0 onwards, you can use an image as a background to the Network Map. This enables you to display a building map behind the Network Map and use icons to show where APs are located on each floor.

To do this, a dialog box lets you upload the background image file (an svg, png, jpg or gif file). The GUI automatically resizes the file, converts it to an .svg file and stores it.

There are no restrictions on the horizontal and vertical length of the image you upload, as long as the file is under 15MB. The GUI will automatically adjust the image to the size of the map area, while preserving your file's aspect ratio.



## Enhancements to Network Map icons

*Control the icons used in the Network Map, on SBx908 GEN2, x950, x930 and x530 Series switches, and AR4050S, AR3050S, AR2050V and AR2010V firewalls and routers*

From version 2.4.0 onwards, you can replace the node icons in the Network Map with your own files, and change the icon titles. To do this, locate the node in the node list on the left-hand side of the Network Map screen, and click the node's icon. A dialog box enables to select a different existing icon or add a new one.

Some of the default icons have also been improved and icon positions stay unchanged after you log out and in again, or use F5 to refresh the screen.

## Summary of nodes managed by AMF and AWC

*Quickly see the number of nodes in the network, on SBx908 GEN2 switches, x950 Series switches, and AR4050S, AR3050S, AR2050V and AR2010V firewalls and routers*

From version 2.4.0 onwards, the top of the Network Map displays a summary of the number of nodes. It displays:

- the total number of nodes
- the number of nodes under management using AMF or AWC
- the number of abnormal nodes
- the number of unmanaged nodes.

## Display of wireless clients on the Heat Map

*See the clients associated with each AP on SBx908 GEN2, x950, x930 and x530 Series switches, and AR4050S, AR3050S, AR2050V and AR2010V firewalls and routers*

From version 2.4.0 onwards, the Heat Map shows how many wireless clients are connected to each AP, and shows when a client disconnects from an AP or is handed over to another AP. Clicking on an AP lists the clients connected to that AP.

## Increase in number of nodes and APs supported by AWC and Vista Manager mini

*New support or increased limits on SBx908 GEN2, x950, x930 and x530 Series switches, and AR4050S firewalls*

AWC features are now supported on more products and for more nodes and APs. The following table shows the maximum number of nodes and APs for each feature and product. The increases are available with AlliedWare Plus version 5.4.9-1.3 or later.

	Vista Manager mini	AWC	AWC-CB	AWC-SC
SBx908 GEN2	300 nodes and 300 APs	300 APs	300 APs	300 APs
x950 Series	180 nodes and 180 APs	180 APs	180 APs	180 APs
x930 Series	120 nodes and 120 APs	120 APs	120 APs	120 APs
x530 Series <sup>1</sup>	20 nodes and 40 APs	40 APs	40 APs	40 APs
AR4050S	20 nodes and 25 APs	25 APs <sup>2</sup>	5 APs	5 APs

1. excludes x530L Series

2. unchanged from previous versions

## Accessing the Web-based Device GUI

This section describes how to access the GUI to manage and monitor your AlliedWare Plus device.

The steps for installing and accessing the GUI depend on whether the latest GUI has been pre-installed on your device in the factory, and if not, whether you are using an AR-Series device or a switch.

### Check if the GUI is installed

To tell if the GUI is installed on your device, simply browse to it, as described below.

### Browse to the GUI

Perform the following steps to browse to the GUI.

**Prerequisite on an AR-series device:** If the firewall is enabled, you need to create a firewall rule to permit traffic generated by the device that is destined for external services. See the “Configuring a Firewall Rule for Required External Services” section in the [Firewall and Network Address Translation \(NAT\) Feature Overview and Configuration Guide](#).

1. If you haven’t already, add an IP address to an interface. For example:

```
awplus#configure terminal
awplus(config)#interface vlan1
awplus(config-if)#ip address 192.168.1.1/24
awplus(config-if)#exit
```

Alternatively, you can use the default address on unconfigured devices:

Device	Address
AR-Series	192.168.1.1
Switches	169.254.42.42

2. Open a web browser and browse to the IP address from step 1.
3. If you do not see a login page, you need to install the GUI, as described in “[Install the GUI if it is not installed](#)” on page 9 . If you see a login page, log in. The default username is *manager* and the default password is *friend*.

### Check the GUI version

To see which version you have, open the About page in the GUI and check the field called **GUI version**.

The latest version is 2.4.0.

If you have an earlier version, update it as described in “[Update the GUI if it is not the latest version](#)” on page 10.

## Install the GUI if it is not installed

### If you have an AR-series device and the GUI is not installed...

Perform the following steps through the command-line interface if your AR-series device does not currently have a GUI installed.

1. If the device's firewall is enabled, create a firewall rule to permit traffic generated by the device that is destined for external services. See the "Configuring a Firewall Rule for Required External Services" section in the [Firewall and Network Address Translation \(NAT\) Feature Overview and Configuration Guide](#).
2. If you haven't already, create one or more IP interfaces and assign them IP addresses, including configuring WAN connectivity. For information about configuring PPP, see the [PPP Feature Overview and Configuration Guide](#). For information about configuring IP, see the [IP Feature Overview and Configuration Guide](#).

3. Use the following command to download and install the GUI:

```
awplus# update webgui now
```

4. Make sure the HTTP service is running:

```
awplus# configure terminal
awplus(config)# service http
```

5. Log into the GUI:

Start a browser and browse to the device's IP address, using HTTPS. You can access the GUI via any reachable IP address on any interface.

The GUI starts up and displays a login screen. Log in with your username and password.

### If you have a switch and the GUI is not installed...

Perform the following steps through the command-line interface if your AlliedWare Plus switch does not currently have a GUI installed.

1. Obtain the GUI file from our Software Download center. The file for 2.4.0 is `awplus-gui_549_13.gui`.  
The file is not device-specific; the same file works on all devices.
2. Copy the file into Flash memory on your switch. You can copy the file into Flash using any of the following methods:

- « TFTP server
- « USB Flash drive
- « SD card

For example, to copy the GUI file from your USB Flash drive, use the following commands:

```
awplus>enable
awplus#copy usb awplus-gui_549_13.gui flash
```

To view all files in Flash and check that the newly installed file is there, use the following command:

```
awplus#dir
```

3. Delete any previous Java switch GUI files.

If you have been using the previous Java switch GUI, we recommend you delete the old GUI file to avoid any conflict. To do this, delete any Java files (.jar) from the switches Flash memory. For example:

```
awplus#del x510-gui_547_02.jar
```

4. If you haven't already, add an IP address to a VLAN on the switch. For example:

```
awplus#configure terminal
awplus(config)#interface vlan1
awplus(config-if)#ip address 192.168.1.1/24
awplus(config-if)#exit
```

5. Make sure the HTTP service is running:

```
awplus# configure terminal
awplus(config)# service http
```

6. Log into the GUI:

Start a browser and browse to the device's IP address, using HTTPS. You can access the GUI via any reachable IP address on any interface.

The GUI starts up and displays a login screen. Log in with your username and password.

The default username is *manager* and the default password is *friend*.

## Update the GUI if it is not the latest version

### If you have an AR-series device and you need to update the GUI...

Perform the following steps through the command-line interface if you have been running an earlier version of the GUI and need to update it.

1. Use the following command to download and install the GUI:

```
awplus# update webgui now
```

2. Stop and restart the HTTP service:

```
awplus# configure terminal
awplus(config)# no service http
awplus(config)# service http
```

3. Log into the GUI:

Start a browser and browse to the device's IP address, using HTTPS. You can access the GUI via any reachable IP address on any interface.

The GUI starts up and displays a login screen. Log in with your username and password.

## If you have a switch and you need to update the GUI...

Perform the following steps through the command-line interface if you have been running an earlier version of the GUI and need to update it.

1. Obtain the GUI file from our Software Download center. The file to use is `awplus-gui_549_13.gui`.

The file is not device-specific; the same file works on all devices.

2. Copy the file into Flash memory on your switch. You can copy the file into Flash using any of the following methods:

- « TFTP server
- « USB Flash drive
- « SD card

For example, to copy the GUI file from your USB Flash drive, use the following commands:

```
awplus>enable
awplus#copy usb awplus-gui_549_13.gui flash
```

To view all files in Flash and check that the newly installed file is there, use the following command:

```
awplus#dir
```

3. Stop and restart the HTTP service:

```
awplus# configure terminal
awplus(config)# no service http
awplus(config)# service http
```

4. Log into the GUI:

Start a browser and browse to the device's IP address, using HTTPS. You can access the GUI via any reachable IP address on any interface.

The GUI starts up and displays a login screen. Log in with your username and password.

The default username is *manager* and the default password is *friend*.