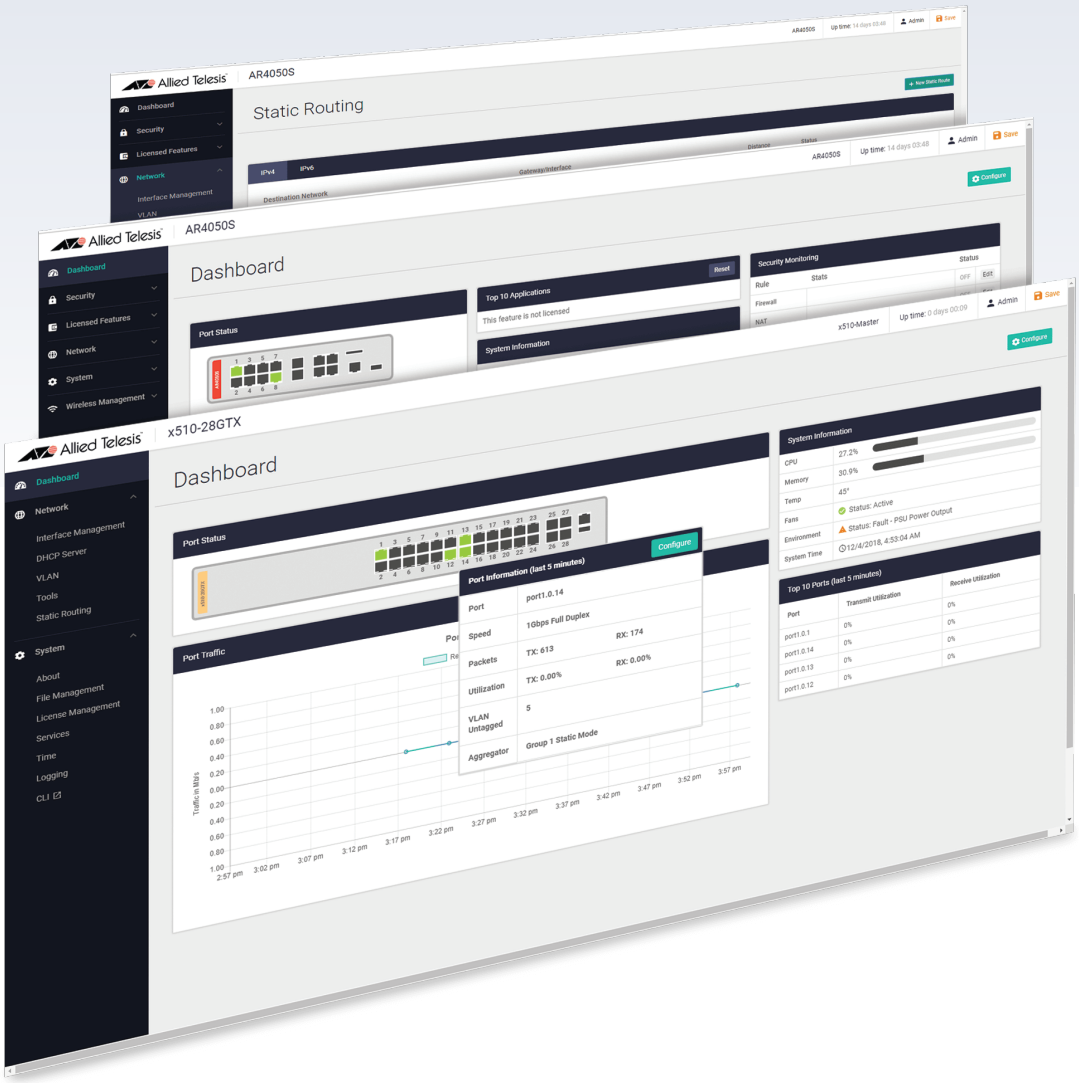
Release Note for Web-based Device GUI v2.2.x



» 2.2.0

AlliedWare Plus
OPERATING SYSTEM

Acknowledgments

Getting the most from this Release Note

To get the best from this release note, we recommend using Adobe Acrobat Reader version 8 or later. You can download Acrobat free from **www.adobe.com/**

Content

What's New in Version 2.2.0

Product families supported by this version:

SwitchBlade x908 GEN2
SwitchBlade x8100 Series
x950 Series
x930 Series
x550 Series
x530 Series
x510 Series
IX5-28GPX
x310 Series
x230 Series
x220 Series
IE510-28GSX-80
IE300 Series
IE210L Series
IE200 Series
XS900MX Series
GS980MX Series
GS980M Series
GS970M Series
GS900MX/MPX Series
FS980M Series
AR4050S
AR3050S
AR2050V
AR2010V

Introduction

This release note describes the new features in the Allied Telesis Web-based Device GUI software version 2.2.0. To use Device GUI version 2.0.0 you must be running AlliedWare Plus 5.4.8-2.3 or later firmware on your device.

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 13

The following table lists model names that support this version:

Table 1: Models and software file names

Models	Family
SBx908 GEN2	SBx908 GEN2
SBx81CFC400 SBx81CFC960	SBx8100
x950-28XSQ	x950
x930-28GTX x930-28GPX x930-52GTX x930-52GPX x930-28GSTX	x930
x550-18SXQ x550-18XTQ x550-18XSPQm	x550

Table 1: Models and software file names(cont.)

Models	Family
x530-28GTXm x530-28GPXm	x530
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	IE500
IE300-12GT IE300-12GP	IE300
IE210L-10GP IE210L-18GP	IE210L
IE200-6FT IE200-6FP IE200-6GT IE200-6GP	IE200
XS916MXT XS916MXS	XS900MX
GS980MX-28 GS980MX-28PS	GS980MX
GS980M/52 GS980M/52PS	GS980M
GS970M/10PS GS970M/10 GS970M/18PS GS970M/18 GS970M/28PS GS970M/28	GS970M

Table 1: Models and software file names(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	AR-series VPN routers

New Features and Enhancements

This section summarizes the new features in the Device GUI software version 2.2.0, on AlliedWare Plus devices running firmware 5.4.8-2.3 or later.

Configurable Dashboard

Available on firewalls/routers and switches

The Device GUI dashboard let's you monitor your firewall/router or switch, and provides a centralized overview of status and performance, with actionable reporting.

From version 2.2.0 you can configure which widgets you would like to view on the dashboard, as well as drag-and-drop widgets to order the dashboard in any way you'd like to best support your network.

Figure 1: Drag and drop widgets to create your preferred dashboard layout

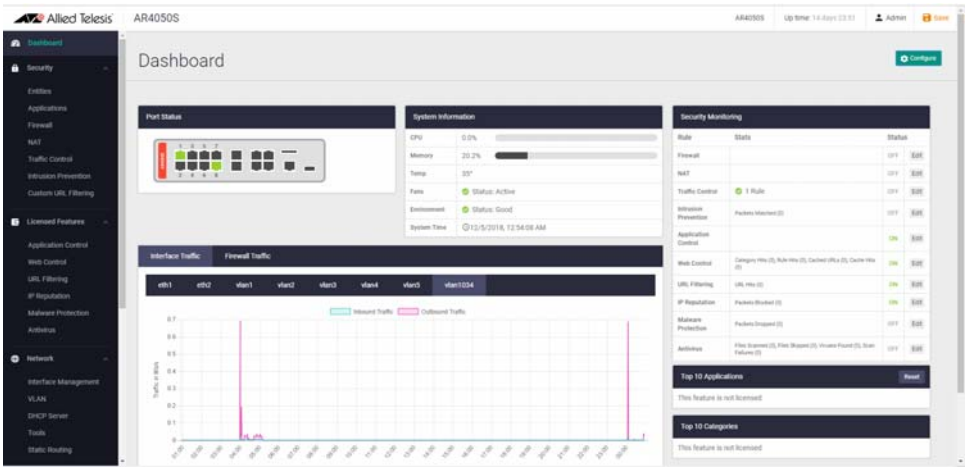
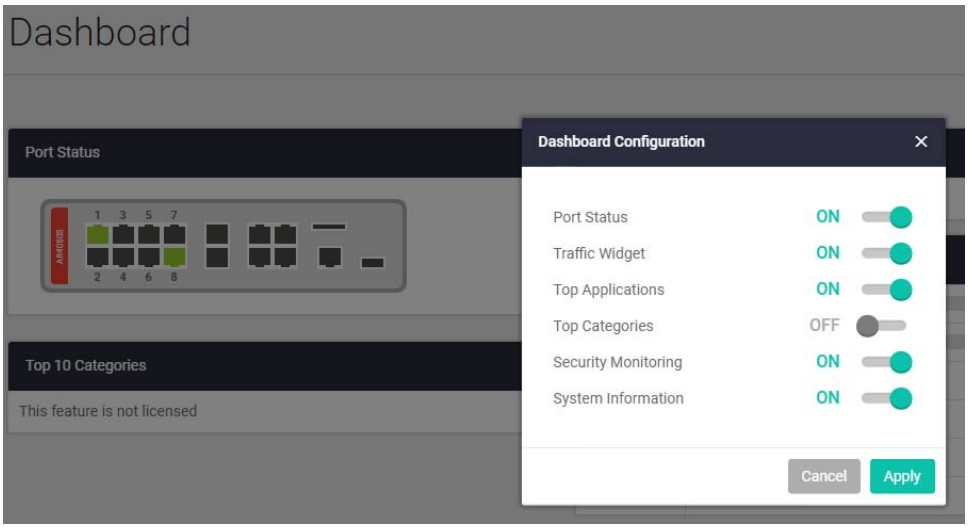


Figure 2: Select the widget(s) to display in the dashboard

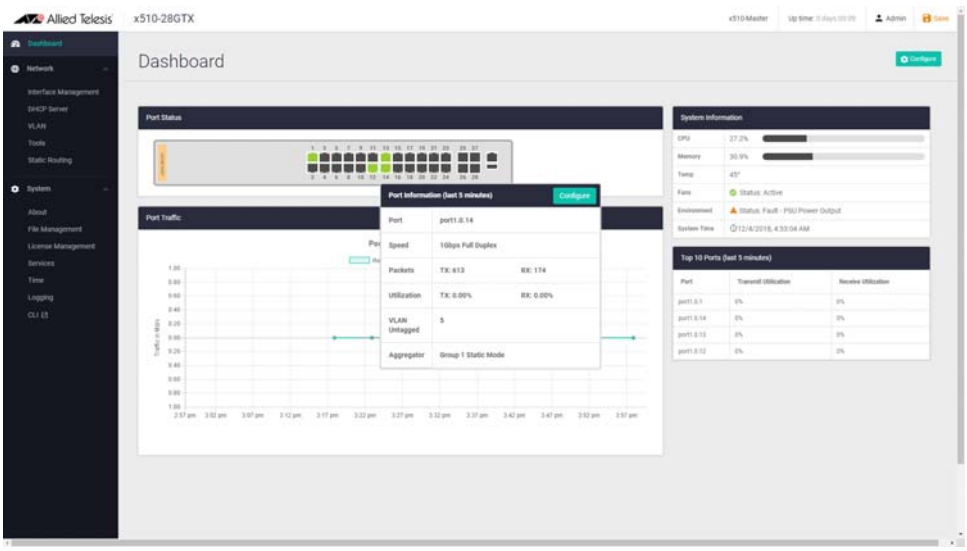


Port Configuration

Available on firewalls/routers and switches

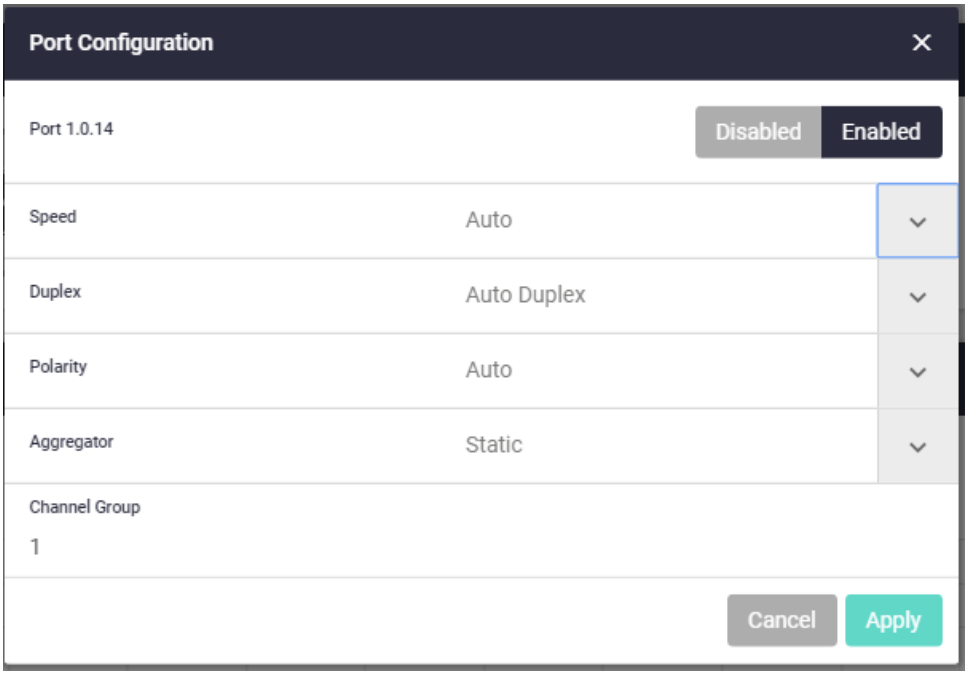
The port status dashboard widget shows the status of ports. Hover-over details include port speed, duplex, packets sent and received, port utilization, VLAN association and more.

Figure 3: Port status dashboard



From version 2.2.0, you can now configure any port with options such as enable/disable, set speed, duplex, and polarity.

Figure 4: Port configuration



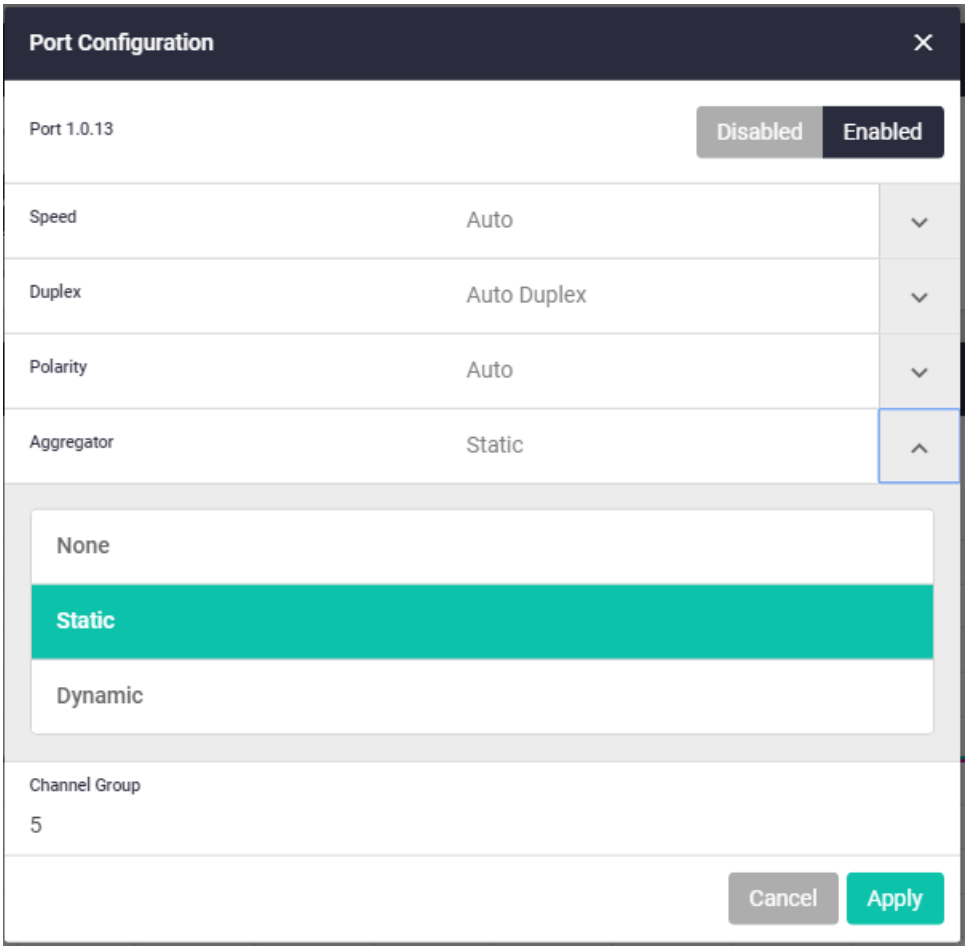
Link Aggregation Groups (LAGs)

Available on firewalls/routers and switches

In addition to the port configuration options described above, you can also use the port configuration menu to manage LAGs.

Ports can be added to static or dynamic (LACP) channel groups.

Figure 5: Configure static and dynamic LAGs

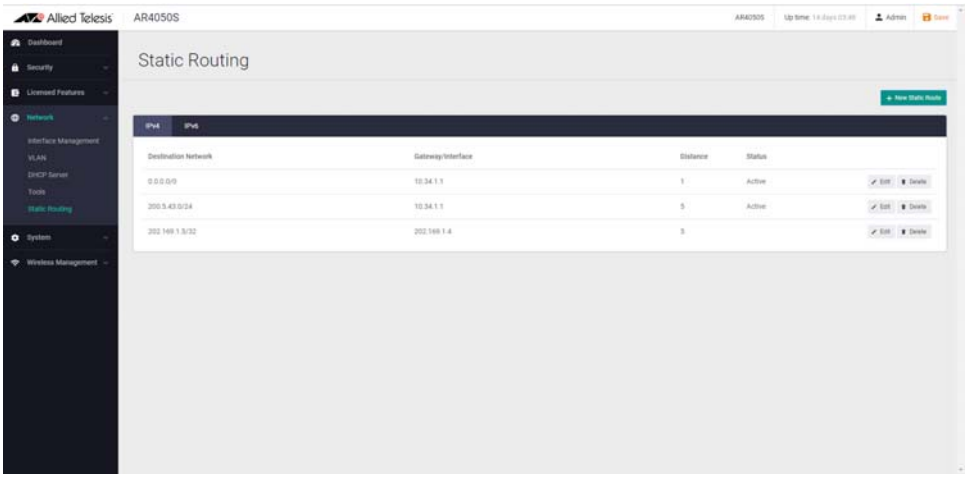


Static Routing

Available on firewalls/routers and switches

The new static routing page allows you to create, edit, and delete static routes to manage traffic flow in your network.

Figure 6: Static routing



Network Time Protocol (NTP)

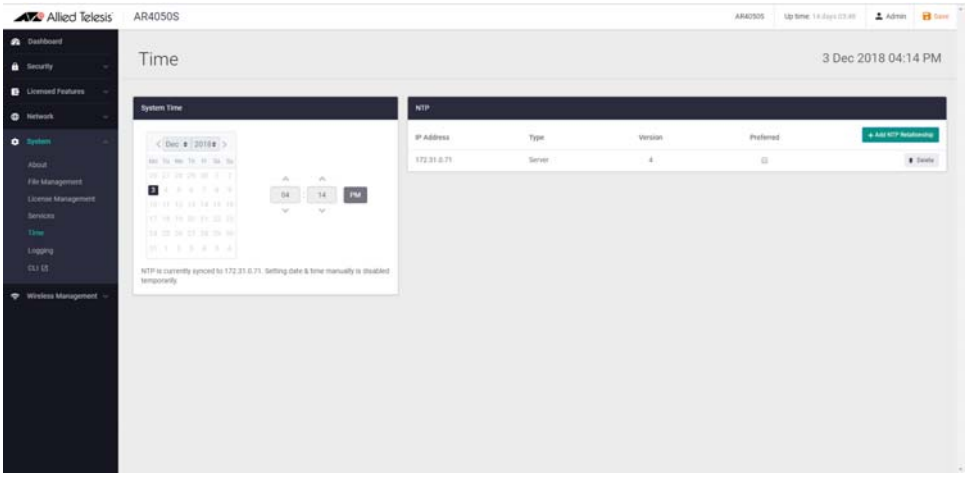
Available on firewalls/routers and switches

NTP is a protocol designed to synchronize the clocks of computers and network devices over a network. The objective of NTP is simple: to allow a client to synchronize its clock with Coordinated Universal Time (UTC), and to do so with a high degree of accuracy and stability.

For network administrators, NTP is important because managing, securing, planning, and debugging a network involves determining when events happen.

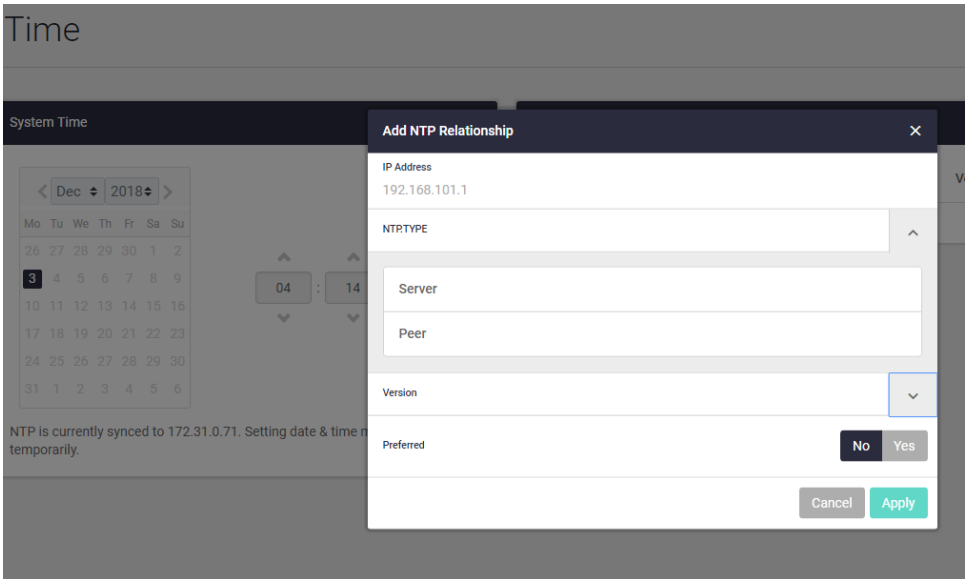
The Device GUI lets you set and edit the system time:

Figure 7: Configure NTP



From version 2.2.0 you can now also manage NTP, and configure the device to operate as the NTP server, or a peer:

Figure 8: Manage NTP



Free nDPI Application List

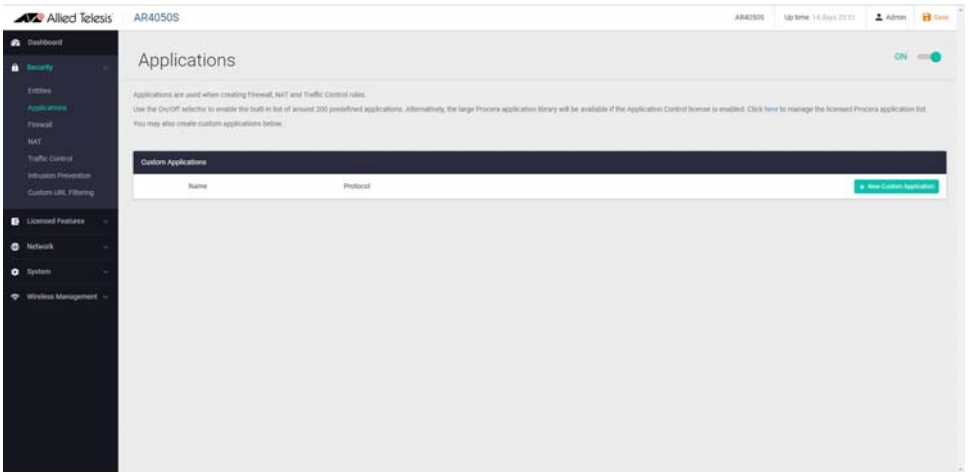
Available on firewalls/routers

Allied Telesis AR Series firewalls and routers are application aware, and can manage traffic in line with business policies. For example, Facebook may be blocked company-wide, while YouTube is bandwidth limited.

The Device GUI now lets you select and use the free nDPI application list of around 200 applications. This functionality is available on the AR4050S, AR3050S, and AR2050V.

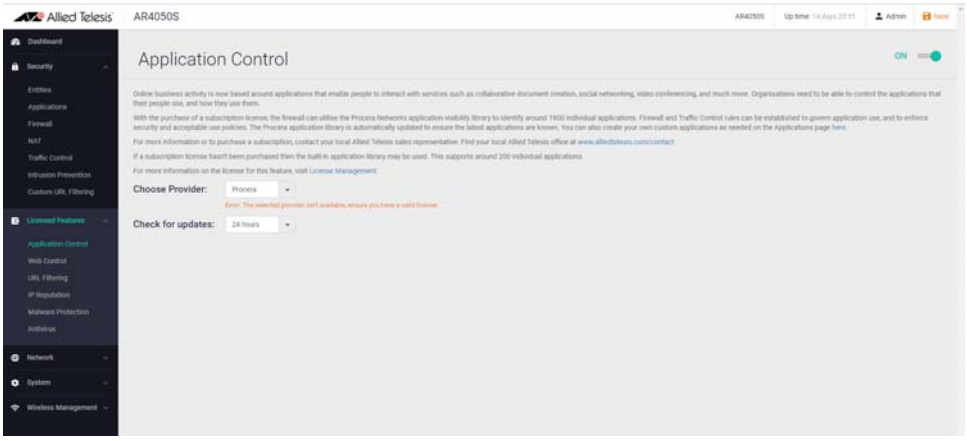
On the Applications page, simply use the on/off selector to enable the free nDPI application list.

Figure 9: Configure application access



On an AR4050S or AR3050S, you may also use the Procera list of around 1400 applications (if licensed). This can be configured from the Application Control page, under licensed features.

Figure 10: Application control



MAC Filtering for Wireless Clients

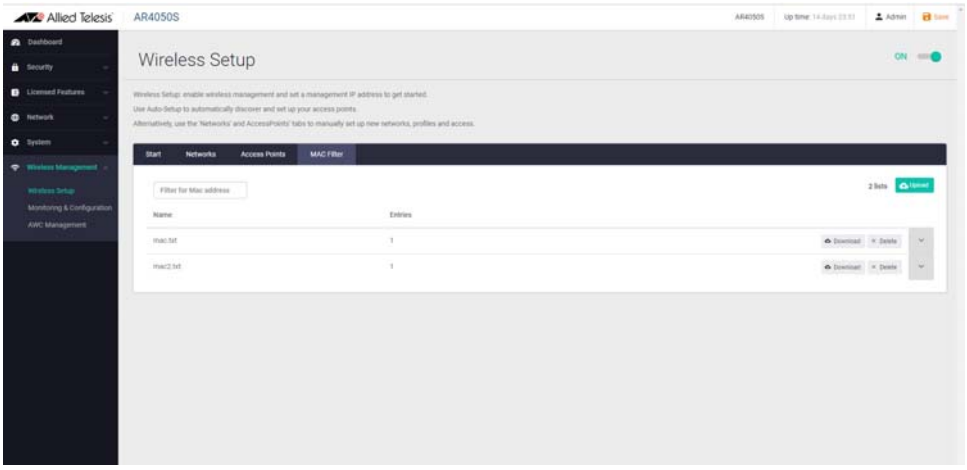
Available on firewalls/routers, and the SwitchBlade x908Gen2

The Device GUI on firewalls/routers, and the SwitchBlade x908Gen2, provides management of wireless networks.

From version 2.2.0, MAC address filtering can be configured. This enables specified wireless access points to use lists of MAC addresses as either a whitelist or blacklist, to allow or block network access to wireless clients.

On the wireless setup page, upload a MAC address list from the MAC filter tab.

Figure 11: MAC filtering for wireless clients



These MAC address lists can then be added to the profile of wireless access points as a whitelist or blacklist, to allow or block access from wireless clients which have the MAC addresses on the list.

Integrated Network Map

Available on the AR4050S UTM Firewall

The Device GUI running on the AT4050S UTM Firewall now includes a network map, if the AR4050S is acting as the AMF master of the network. The map shows both wired devices (AMF master and members) and wireless devices (AWC managed access points).

Figure 12: Network map showing an AR4050S acting as the AMF master

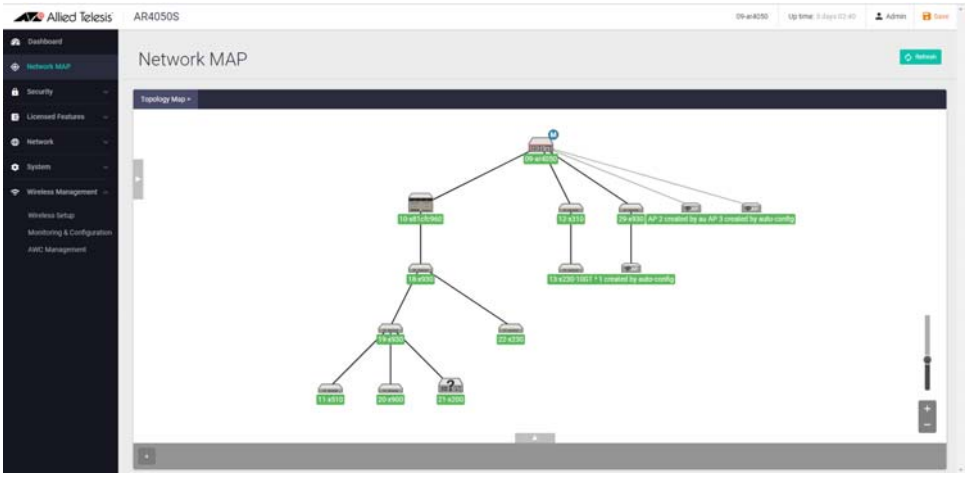
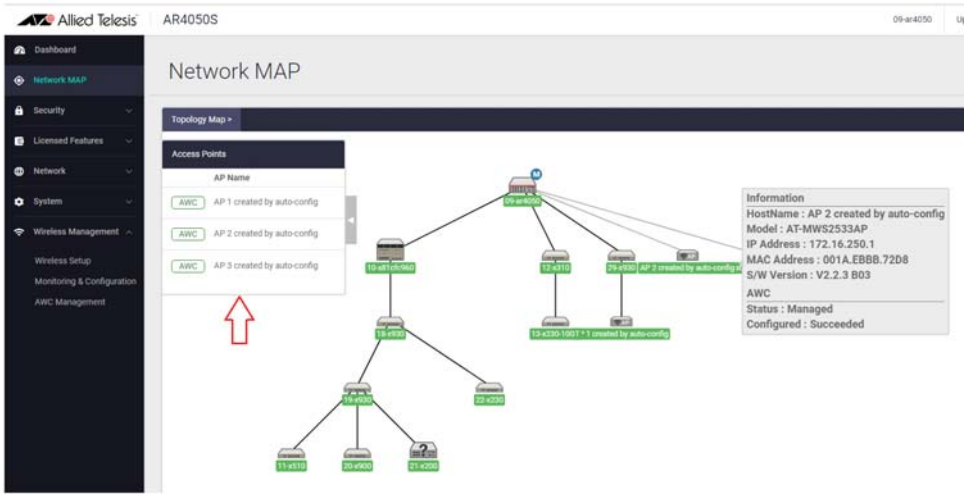
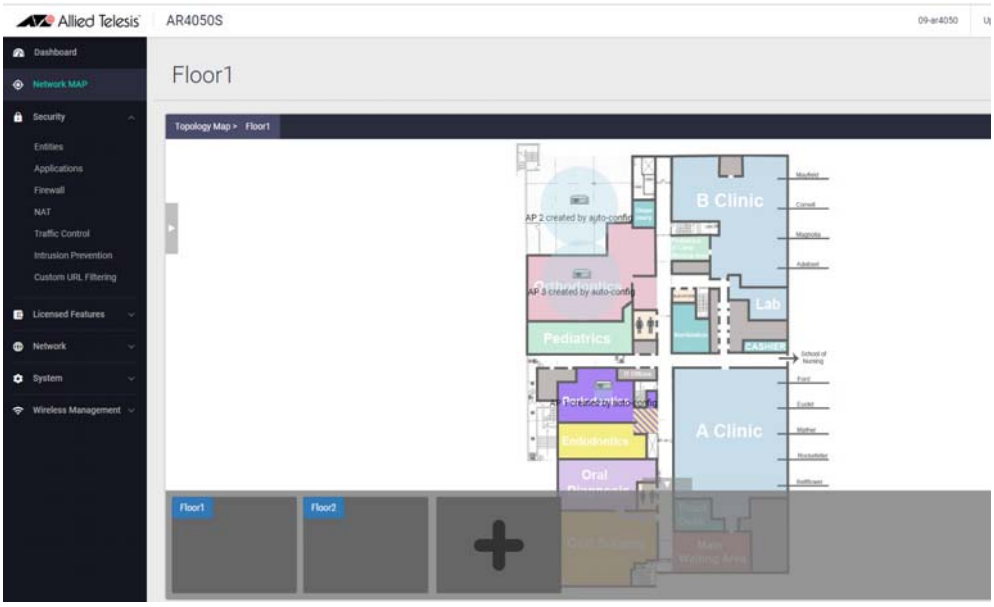


Figure 13: The map provides details on all the devices



- The left slide-out menu lists all access points.
- Click on any access point (AP) in the list or device on the map to see its details.

Figure 14: Floor maps provide visualization and monitoring of wireless APs



- The bottom slide-up menu allows you to add floor maps.
- You can place access points on the floor map to help with visualization and monitoring.

Allied Telesis wireless access points have multiple radios for maximum performance. For example, the TQ5403 has a single 2.4Ghz radio and two 5Ghz radios.

The wireless coverage provided by each radio on any chosen APs can be selected to view – for example, radio 1 coverage is shown for AP2 and AP3 below.

Figure 15: Map showing radio 1 coverage for AP2 and AP3

Accessing the Web-based Device GUI

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

The GUI is a convenient tool for monitoring your device's status and performing management tasks. Its dashboard provides at-a-glance monitoring of traffic and other key metrics.

On AR3050S and AR4050S firewalls, you can use the GUI to create an advanced application-aware firewall with features such as Application control and Web control. Alternatively, you can configure real-time threat protection with URL filtering, Intrusion Prevention and Malware protection.

On SBx908 GEN 2 switches and AR-Series devices, you can also optimize the performance of your Allied Telesis APs through the Autonomous Wave Control wireless manager.

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

- All devices: GUI pre-installed at factory
- AR-Series devices: GUI not pre-installed or updating the GUI
- Switches: GUI not pre-installed or updating the GUI

All devices: GUI pre-installed at factory

Perform the following steps to browse to the GUI if your device came with the GUI pre-installed.

1. Connect to any of the LAN switch ports.

2. Open a web browser and browse to the default IP address for VLAN1. The default address is:

Device	Address
AR-Series	192.168.1.1
Switches	169.254.42.42

   Alternatively, give VLAN1 an IP address of your choice and browse to that address.

3. Log in with the default username of *manager* and the default password of *friend*.

AR-Series devices: GUI not pre-installed *or* updating the GUI

Perform the following steps through the command-line interface if:

- your AR-series device did not come with the GUI pre-installed, or
- you have been running an earlier version of the GUI and need to update it (steps 3 onwards).

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. 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. If you are updating the GUI, stop and restart the HTTP service:

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

5. If you are installing the GUI for the first time, 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.

Switches: GUI not pre-installed *or* updating the GUI

Perform the following steps through the command-line interface if:

- your AlliedWare Plus switch did not come with the GUI pre-installed, or
- 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_548_10.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_548_10.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, it is advisable to 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. 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. If you are updating the GUI, stop and restart the HTTP service:

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

6. If you are installing the GUI for the first time, make sure the HTTP service is running:

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

7. 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*.

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