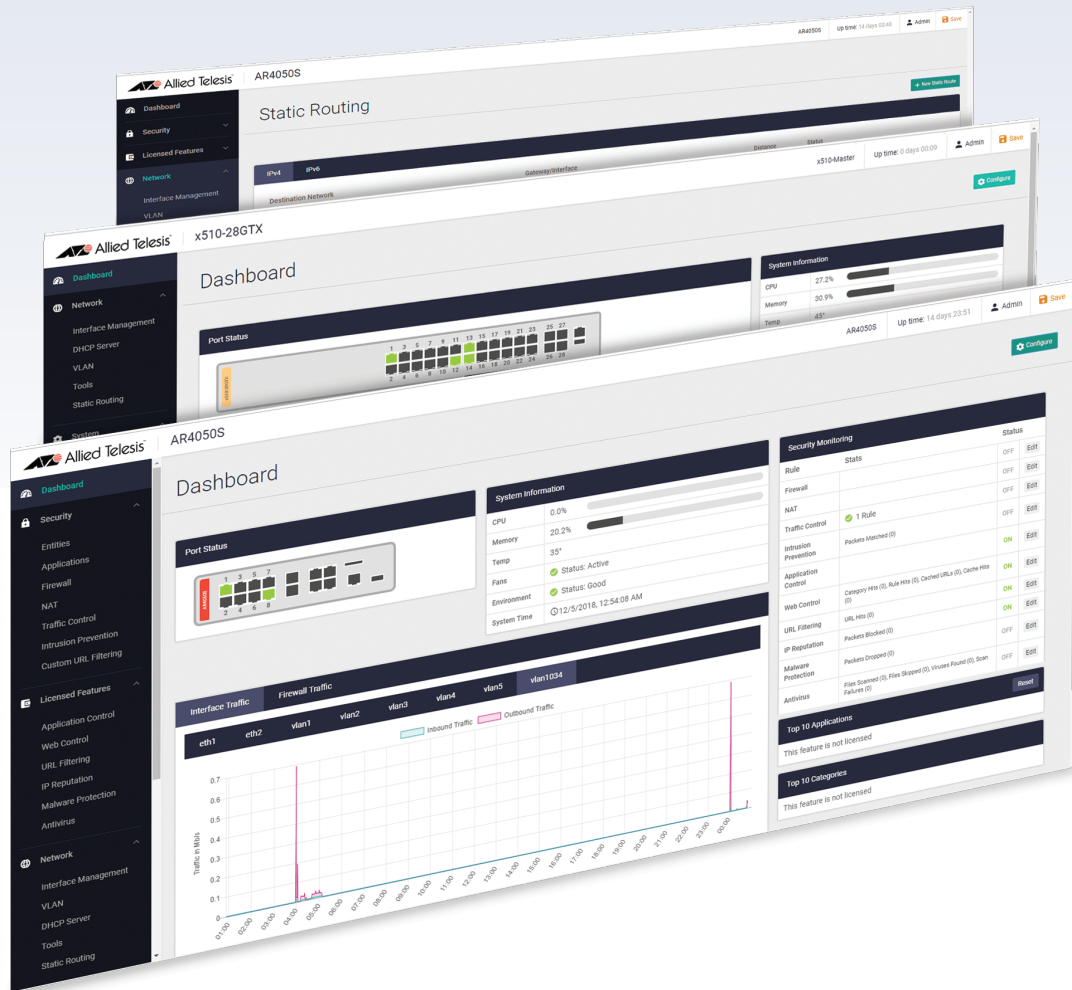# Release Note for Web-based Device GUI Version 2.3.x

» 2.3.0

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 2.3.0

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
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 2.3.0. To use Device GUI version 2.3.0 you must be running AlliedWare Plus 5.4.9-0.1 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 12

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
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 2.3.0, on AlliedWare Plus devices running firmware 5.4.9-0.1 or later.

AWC lite Support for x950

AWC uses wireless intelligence to constantly model (or calculate) AP location and signal strength information. It then automatically optimizes wireless output and channel selection.

By automatically minimizing coverage gaps and reducing Access Point (AP) interference, AWC delivers a high-quality wireless experience that responds to network configuration changes and bandwidth demands from user devices.

From version 2.3.0 onwards, AWC lite is supported on the x950 Series.

From the GUI dashboard, use the menus:

- **Wireless Management** to setup and enable wireless management and configure a management IP address.

- **Monitoring and Configuration** to display the status of wireless APs and connected clients. From here you can also easily monitor APs that may be unauthorized or in a failure state. You can schedule instant or delayed updates, configure firmware updates, or re-boot any device.

- **AWC Management** to change the default AWC calculation times or manually start a new AWC calculation time.

For more information on AWC, see the AWC for Wireless Management on SBx908 GEN2 and x950 Series Switches Feature Overview Guide.

AWC Lite Support for AT-TQ5403e Access Point

Supported on the Device GUI running on SwitchBlade GEN2, x950 Series, AR4050S, AR3050S, AR2050V, AR2010V

From version 2.3.0 onwards, the AT-TQ5403e, an Advanced Enterprise-Class Outdoor 802.11ac Wave 2 Wireless Access Point (AP), can be managed using the integrated AWC Lite wireless management tools.

The TQ5403e is based on IEEE 802.11ac, with two-spatial-stream Multiple Input and Multiple Output (MIMO), which can deliver more than twice the wireless capacity of 802.11n Access Points.

For more information on the AT-TQ5403e, see the datasheet on the Allied Telesis website. You can find the datasheet by going to the TQ wireless Product Series and then selecting **Datasheets** from **More information**.

Figure 1: AT-TQ5403e

AWC Lite is an application that controls various aspects of the wireless LAN for TQ-series access points (APs). As part of the Device GUI, it enables easy visual setup, management, and monitoring of your wireless network.

Floor Maps - Introducing the Heat Map

Supported on the Device GUI running on SwitchBlade GEN2, x950 Series, AR4050S, AR3050S, AR2050V, AR2010V

Floor maps provide visualization of AP deployment and performance monitoring. Previously AP coverage was indicated on a floor map by a simple fixed blue circle radiating out from the AP.

From version 2.3.0 onwards, the fixed blue circle has been replaced with a more realistic looking **heat map**. The heat map uses color to indicate the radio signal strength and range. Red indicates the strongest signal strength and as the signal attenuates the circle color changes to become shades of orange, yellow, green, and then blue at the weakest signal- at the furthest distance from the AP.

You can adjust the position of the APs on the floor map to match the real layout of APs in your building, and then check the heat map to accurately see the wireless signal strength and coverage for each radio that is configured. The new heat maps make it easy to visualize and configure the wireless coverage to best suit your requirements.

Figure 2: Heat map showing AP positions and floor coverage

**Figure 3: Heat map coverage after AP repositioning**

Customized Floor Map Names

Supported on the Device GUI running on SwitchBlade GEN2, x950 Series, AR4050S, AR3050S, AR2050V, AR2010V

From version 2.3.0 onwards, you can customize a floor map name. This means you can add a meaningful name to match the real layout of a building such as Building 1/Floor 2, or Marketing, Customer Service etc.
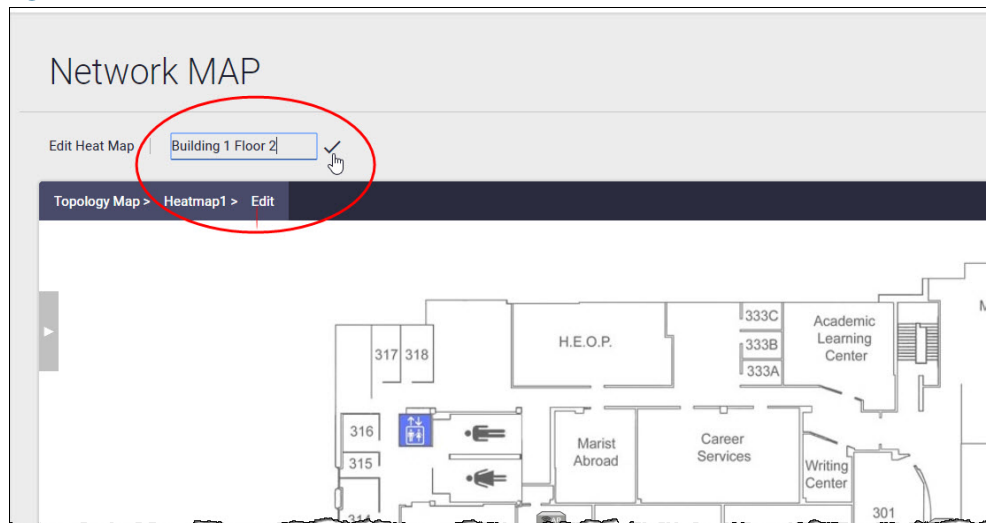
To customize a floor map name:

- From the **Network MAP** menu, **Topology Map** view, click on **edit** to view the floor map.
- From the **Edit Heat Map** window, type in the floor map name.
- Click the 'tick' to **save**.

Figure 4: The location of the edit button
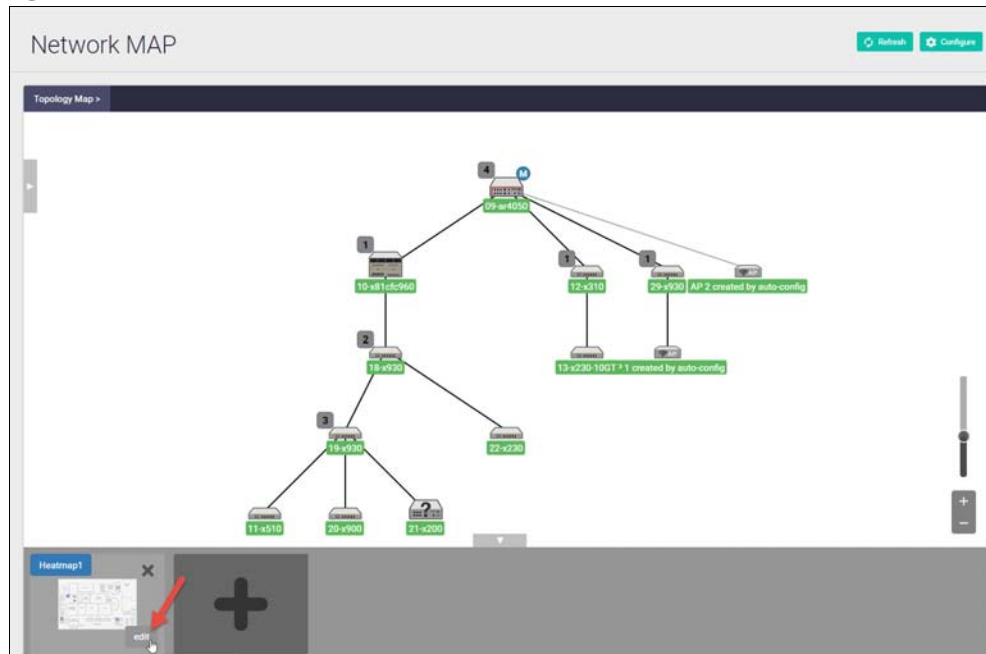
Figure 5: The name field and the tick to click to save the new name

Support for Network Map and Heat Map on the SBx908GEN2 and x950 Series

From version 2.3.0 onwards, the network and heat map features are supported on the SBx980GEN2 and x950 Series switches, as well as the AR4050S, AR3050S, AR2050V, and AR2010V firewalls and routers.

From the Device GUI window, select **Network MAP** to view wired and wireless devices in the network. In the Network MAP window, click the:

- left-hand slide menu to see a list of APs.

- device to see details such as its host name, model, and IP or MAC address.

- number above the device to show or hide the topology below.

From the Network MAP window, you can also add floor and heat maps to provide visualization of AP deployment and performance monitoring. For more information, see "Floor Maps - Introducing the Heat Map" on page 7.

Figure 6: Network map
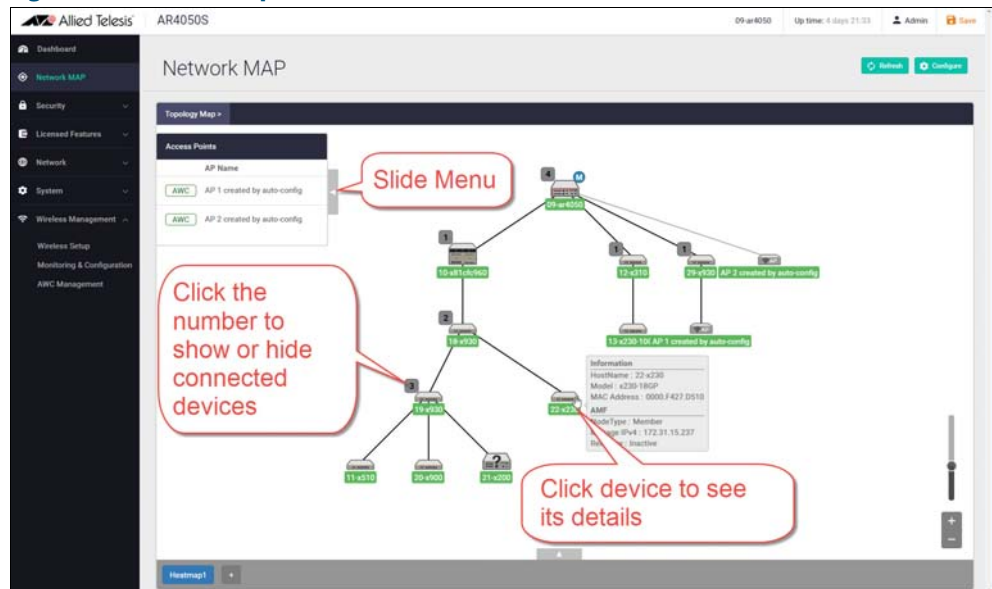
Figure 7: Floor and heat maps
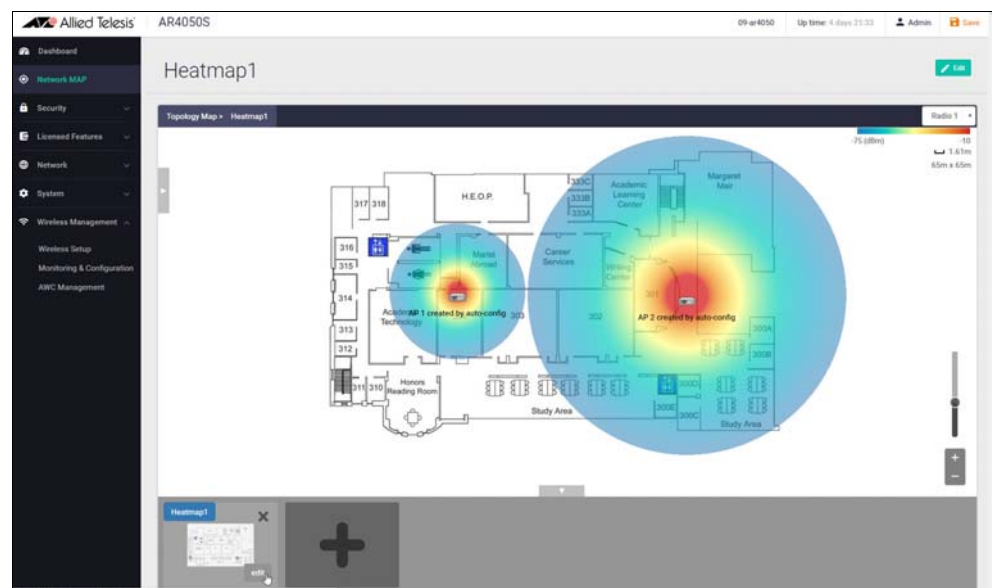
Hybrid Wireless APs - AWC Channel Blanket

Supported on the Device GUI running on SwitchBlade GEN2 and x950 Series switches.

From version 2.3.0 onwards, the management of AWC Channel Blanket (AWC-CB) is supported on the Device GUI.

There are two main types of Wi-Fi architecture in use today:

- **Multi-channel Wi-Fi** - the most commonly deployed type of Wi-Fi architecture, where each AP operates on a different radio channel and connects to a number of devices. This is suitable for fixed devices that require high-speed access and high throughput wireless communication.

- **Single-channel Wi-Fi** - where all APs in the network operate on the same channel. Allied Telesis use the name "AWC Channel Blanket" for the single-channel Wi-Fi architecture. AWC-CB is suitable for highly mobile devices.

The TQ5403 and TQ5403e Hybrid Wireless APs enable both single and multi-channel wireless operation at the same time. This is useful when you need to provide both multi-channel coverage for high performance and AWC Channel Blanket for seamless roaming. The Device GUI now supports enabling and configuring AWC Channel Blanket operation, as well as the default multi-channel operation, when running on SwitchBlade x908 and x950 Series switches.

For more information on AWC Channel Blanket, see the Allied Telesis website.

General improvements

Applies to all devices.

This version makes a number of improvements, including improvements to the display of several pages and to error handling.

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 a 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 13 . 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 2.3.0.

If you have an earlier version, update it as described in "Update the GUI if it is not the latest version" on page 14.

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 2.3.0 is awplus-gui_549_11.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_11.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 with 5.4.9-0.x is awplus-gui_549_11.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_11.gui flash
    ```

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

    ```
    awplus#dir
    ```

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    ```
    awplus# configure terminal

    awplus(config)# no service http

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    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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