RUCKUS ICX Pro AV Switch Quick Setup Guide

Part Number: 53-1005832-04
Publication Date: 1 September 2026

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The *RUCKUS ICX Pro AV Switch Quick Setup Guide* provides instructions for a user to get started with ICX8100-C08PF-V, ICX8100-24P-V, ICX8100-48P-V, ICX8200-C08PFV, ICX8200-C08ZP-V, ICX8200-24PV, ICX8200-24ZP-V, ICX8200-48P-V, ICX8200-48PF-V, ICX8200-48PF2-V, and ICX8200-48ZP2-V (RUCKUS AV Switches).

For more information on advanced configurations and management options, refer to RUCKUS ICX FastIron user documentation available at: https://support.ruckuswireless.com/documents.

About This Document

RUCKUS ICX Pro AV Switch Quick Setup Guide provides instructions for a user to get started with ICX8100-C08PF-V, ICX8100-24P-V, ICX8100-48P-V, ICX8200-C08PFV, ICX8200-C08ZP-V, ICX8200-24PV, ICX8200-24ZP-V, ICX8200-48P-V, ICX8200-48PF-V, ICX8200-48PF2-V, and ICX8200-48ZP2-V (RUCKUS AV Switches).

For more information on advanced configurations and management options, refer to RUCKUS ICX FastIron user documentation available at: https://support.ruckuswireless.com/documents.

New in This Document

The following table includes descriptions of new information added to this version of this guide.

TABLE 1 Summary of Enhancements in This Version of the Guide

Feature	Description	Described in
Documentation Correction	Corrected a minor documentation defect in the copyright section.	Copyright section

Package Contents

The RUCKUS ICX AV device shipping box includes all of the following items:

- The RUCKUS ICX AV device
- An accessory kit containing the following items:
  - One US AC power cord, shielded
  - One USB Type-C to USB Type-A cable
  - One power cord retaining clip
  - Four rubber feet (included only with ICX8100-C08PF-V and ICX8200-C08PF-V)
  - Wall mounting kit containing two wall-mount screws and two plastic anchors (included only with ICX8100-C08PF-V and ICX8200-C08PF-V)
  - Two-post rack kit (ICX7000-RMK) containing four rack-mounting screws and four cage nuts (included only with ICX8200-24P-V)
  - Rack mounting kit containing two L-shaped mounting brackets and two sets of eight sink-head screws (included only with ICX8200-24P-V)
  - Read Me First document
  - Information card (QR code for accessing this document online)
  - Declaration of Conformity/Regulatory flyer
  - China RoHS sheet

Default Switch Credentials

RUCKUS AV switches use the following default credentials:

- Username: **super**
- Password: **sp-admin**

After the first login, you will be prompted to change the default password.

Powering Up the Pro AV Switch

Place the Pro AV switch securely on a flat surface, or mount it on a wall or rack as required for your setup. For detailed installation procedures, refer to the hardware installation guide specific to your device: the RUCKUS ICX 8200 Switch Hardware Installation Guide or the *RUCKUS ICX 8100 Switch Hardware Installation Guide*.

Complete the following steps to power on the Pro AV switch.

1. Connect the US power cable to the 100-240 VAC power source.

   If you require a different power cable, refer to the *RUCKUS Accessory Guide*.
2. After the device has booted, verify that the power and status LEDs are green (blue for ICX8200-C08PFV and ICX8200-24PV).

   The power supply LEDs display amber until the power-on self-test (POST) is complete, and then change to blue. The switch usually requires several minutes to boot and complete POST. For more information on the LED behavior, refer to Understanding LED Behavior on page 5.

Disabling Switch LEDs

Using the **STAT** mode button on your AV switch, you can disable all LEDs.

Complete the following steps to disable all LEDs on your AV switch.

1. Press the **STAT** button repeatedly to cycle through the LED display modes.

   The last mode in the cycle is LED-off mode.
2. (Optional) Re-enable the LEDs. Press the **STAT** button again to cycle through the display modes. The last mode in the cycle is LED-on mode.

Understanding LED Behavior

LED	Status of Hardware
Off (no light)	If the LEDs were not manually disabled, then the system is off or there is no power.
Blinking Blue	Device is initializing.
Steady Blue	The application software is up and running on the AV switch.
Steady amber	The system is in boot mode.
Blinking amber	The system has crashed and the watchdog timer has timed out. Or, the system has failed to boot a valid software image.

For detailed information on LED behavior and patterns, refer to RUCKUS ICX 8200 Switch Hardware Installation Guide and *RUCKUS ICX 8100 Switch Hardware Installation Guide*.

Managing an AV Switch Using the Web Management Interface

The Web Management interface is accessible from a management station using a web browser over an HTTPS connection. Supported web browsers include:

- Google Chrome
- Mozilla Firefox
- Safari
- Chromium

Using the Pre-Configured IP Addresses

Out of the box, if a DHCP server is not available, the ICX Pro AV switch uses the following default IP addresses:

- Out-of-band Ethernet management port: 192.168.1.1/30
- In-band Ethernet ports: 192.168.2.1/30

Complete one of the following steps to access the ICX Pro AV switch.

1. Configure the network interface of your computer with IP address 192.168.1.2/30, and connect it to the out-of-band management port using an Ethernet cable.

   This enables management access.
2. Configure the network interface of your computer with IP address 192.168.2.2/30, and connect it to any in-band Ethernet port using an Ethernet cable.

   This enables management access.

   NOTE
   A /30 subnet corresponds to the subnet mask 255.255.255.252.

Using DHCP Services

If the ICX Pro AV switch is connected to a network with a DHCP server, the default IP addresses are automatically replaced by an IP address assigned by the DHCP server.

Complete one of the following steps to determine the IP address assigned to the ICX Pro AV switch.

1. Check the DHCP lease table on the DHCP server.
2. Connect to the switch using a serial (console) connection and use the **show ip address** command.

   Refer to Connecting to the Serial Port of the ICX Pro AV Switch and Configuring a Static IP Address on page 15 for instructions on how to establish a serial connection.

Logging In to the Web Management Interface

To manage the ICX Pro AV switch using the Web Management Interface, complete the following steps.

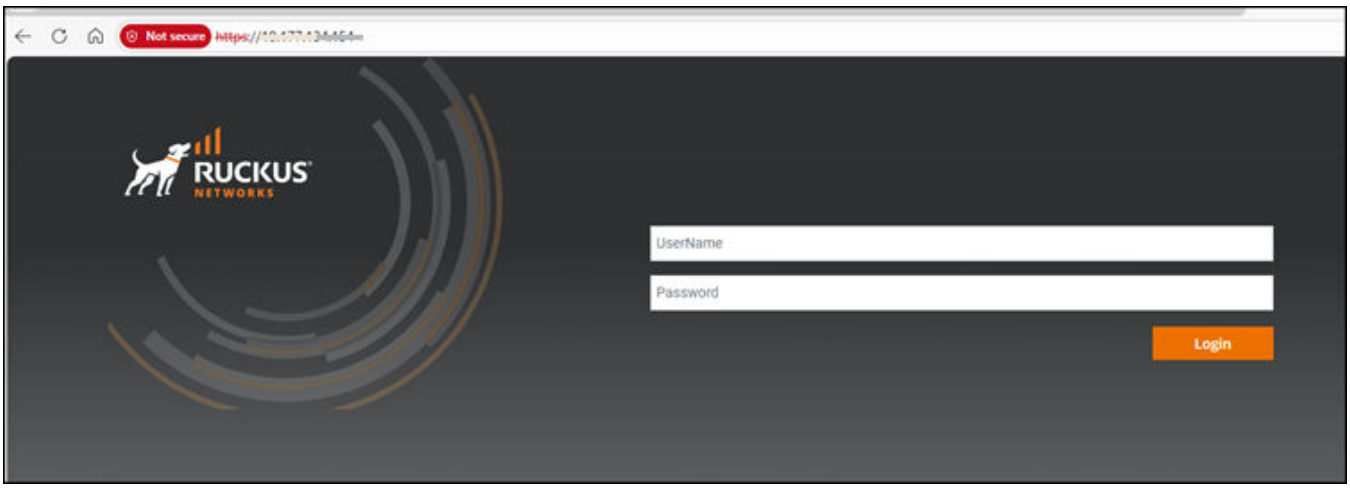
1. Launch a web browser and enter the IP address of the ICX Pro AV switch in the address bar.

   For example, if your computer is connected to an in-band Ethernet port and the switch is not connected to a DHCP server, the switch retains its default IP configuration. In this case, you can access the switch by entering the following IP address in the web browser: https://192.168.2.1.

   NOTE
   You can also access the device using the management IP address, interface IP address, or VE IP address which is connected to the network.

   The **Web Management Interface** login page is displayed.

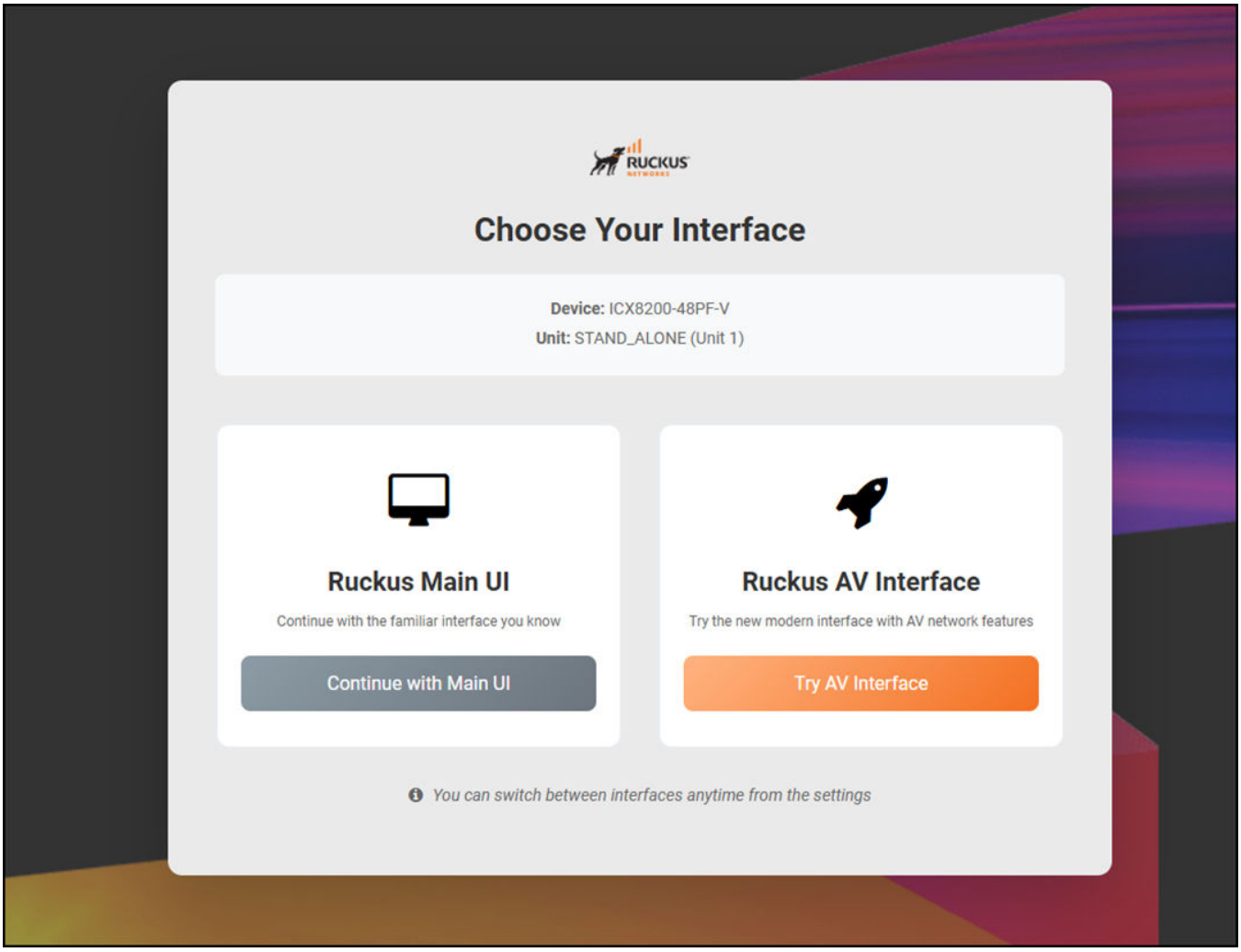
   FIGURE 1 Web Management Interface Login Page



2. Enter the username and password, **super** and **sp-admin**, respectively, then click **Login**.

   You will be prompted to change the default password and then redirected to the **Choose Your Interface** page.

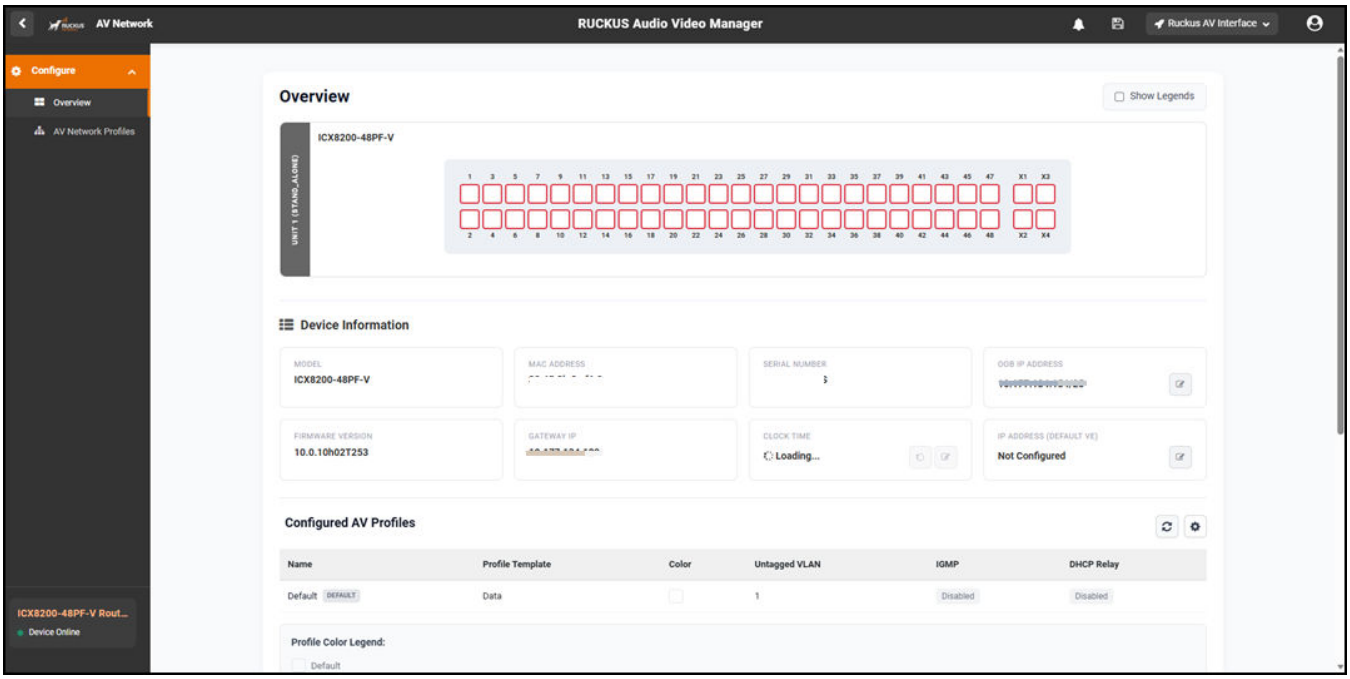
   FIGURE 2 Choosing Your Interface



3. Select **Try AV Interface**.

   The ICX Pro AV switch **Overview** page displays these sections: **Overview**, **Device Information**, **Configured AV Profiles**, and **System Metrics**.

   FIGURE 3 Configuration Overview



You can optionally set the system clock and configure both in-band and out-of-band IP addresses.

Creating a Customized AV Template

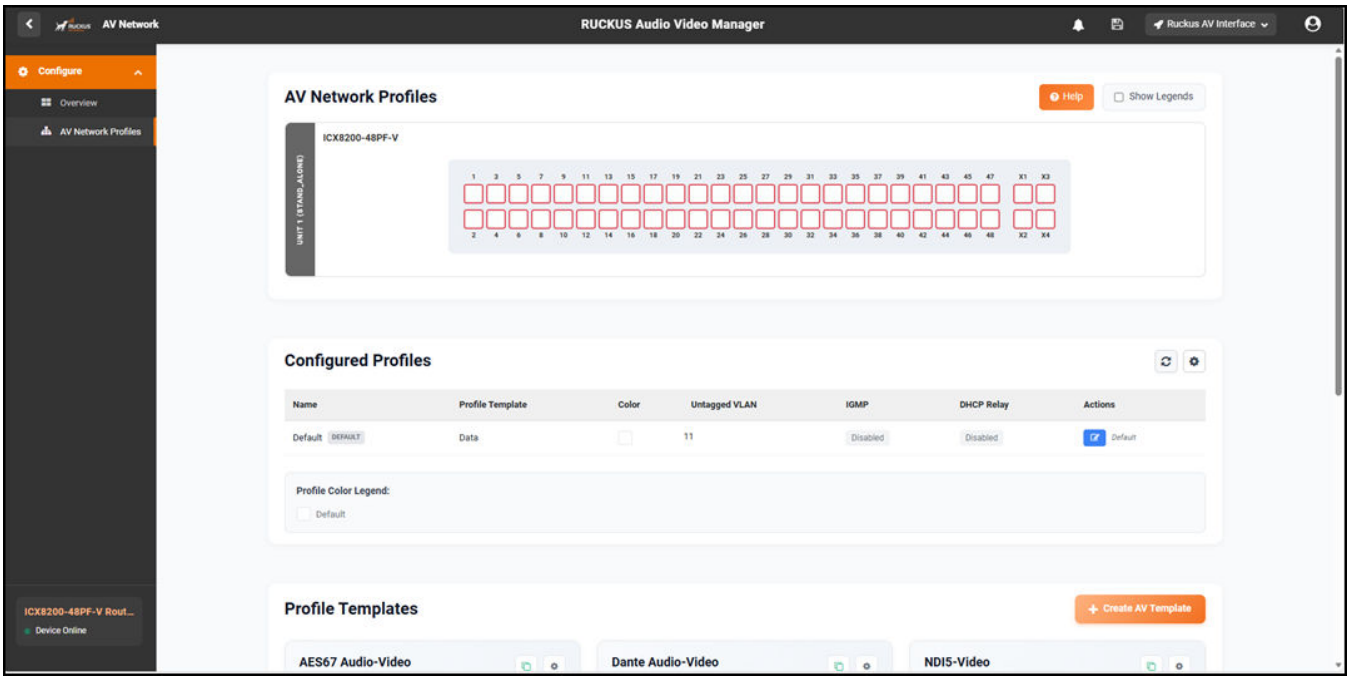
AV profiles enable the AV switch to identify and manage audio-visual (AV) traffic efficiently, reducing management overhead, and reducing the complexity of configurations. A customized AV template allows you to push preconfigured AV profiles to AV switches, optimizing the performance and reliability of AV networks. The switch identifies AV traffic based on multicast addresses and port numbers, and assigns different quality of service (QoS) priorities to the traffic based on either custom or preconfigured preferences that recognize specific types of AV traffic, such as AES67 Audio-Video, Dante Audio-Video, NDI5-Video, Q-Sys_Video, generic Video, and Data. You can create a customized AV template mapping specific Differentiated Services Code Point (DSCP) values to the selected priorities of your preference.

Complete the following steps to create a customized AV profile template.

1. From the navigation bar, select **Configure** > **AV Network Profiles**.

   The **AV Network Profiles** page is displayed. The **AV Network Profiles** page has three sections, **AV Network Profiles**, **Configured Profiles**, and **Profile Templates**.

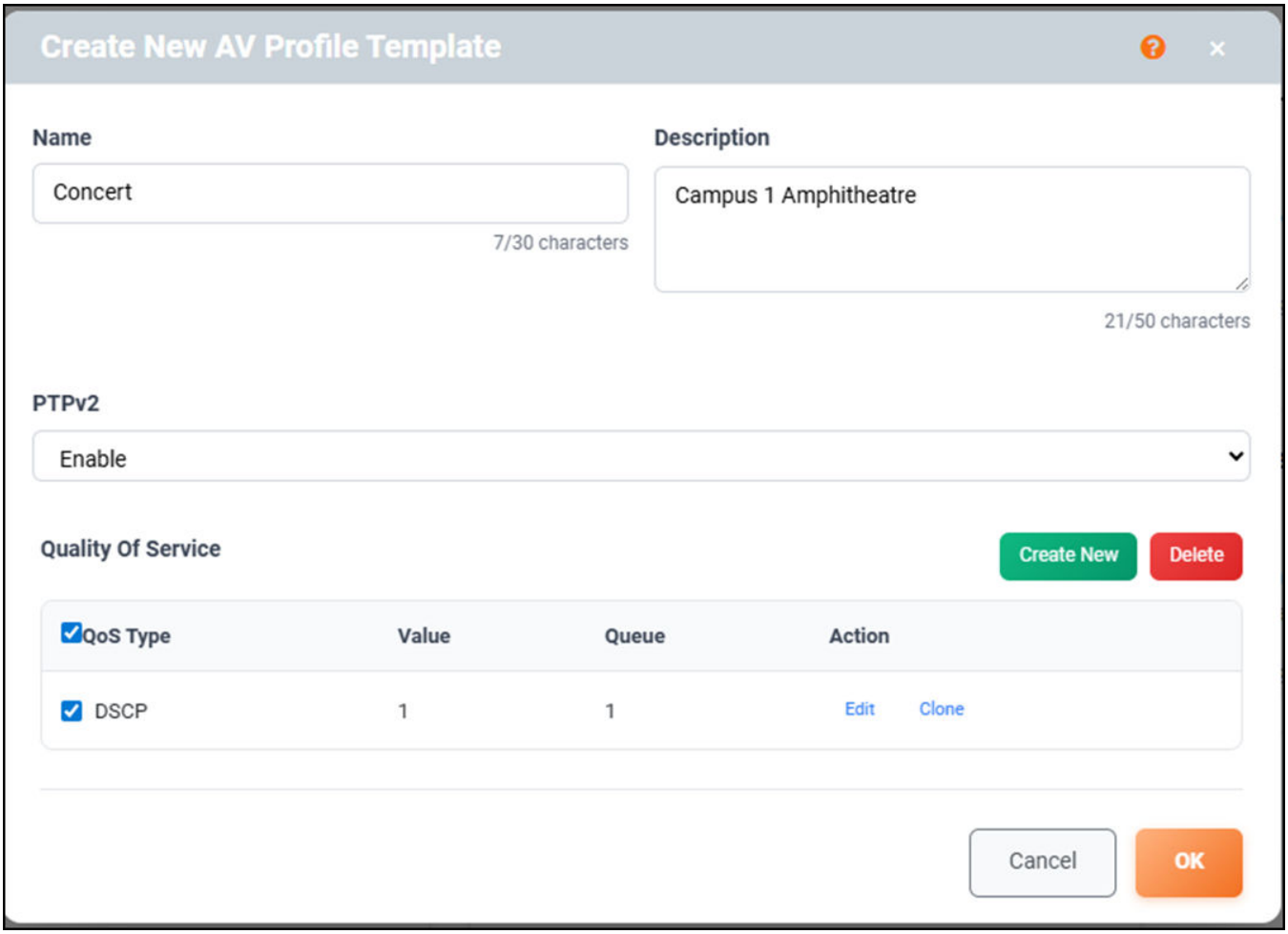
   FIGURE 4 AV Network Profiles



2. In the **Profile Templates** section, click **Create AV Template**.

   The **Create New AV Profile Template** pop-up is displayed.

FIGURE 5 Creating New AV Profile Template



NOTE

Click the icon to access the **AV Template Creation** tutorial.

a) For **Name** and **Description**, add the AV profile template name and a short description.

   A maximum of eight custom templates can be created per switch, and a port can only be bound to one AV profile.

b) (Optional) Enable **PTPv2**. Enable Precision Time Protocol version 2 (PTPv2) to provide time synchronization across endpoints. PTPv2 is commonly required for time-sensitive AV applications where accurate synchronization between devices is critical.

c) In the **Quality Of Service** section, click **Create New** and complete the following.

   - For **QoS Type**, select **DSCP** to classify traffic based on the Differentiated Services Code Point (DSCP) value in the IP header.
   - For **Value**, specify a DSCP value to match. Traffic matching this value is classified by the QoS rule.
   - For **Queue**, select the egress queue to which matching traffic is assigned. Higher-numbered queues receive higher forwarding priority during periods of congestion, helping reduce latency and jitter for time-sensitive traffic. The following queue assignments are commonly used:

- Queues 6 and 7: Real-time audio traffic, such as AES67 and Dante
- Queues 4 and 5: Video traffic
- Queues 2 and 3: Control and management traffic
- Queues 0 and 1: Best-effort data traffic

NOTE
Incorrect DSCP-to-queue assignments can affect traffic prioritization during periods of congestion. Classifying critical AV traffic into higher-priority queues helps maintain predictable performance and minimizes latency and jitter.

3. Click **Save** to save the QoS rule.
4. Create additional DSCP-to-Queue bindings as needed and then click **OK** to save the custom template.

   The new template is listed in the **Profile Templates** section and labeled with the **CUSTOM** tag.

Applying an AV Template to Switch Ports

Complete the following steps to apply a profile template to switch ports.

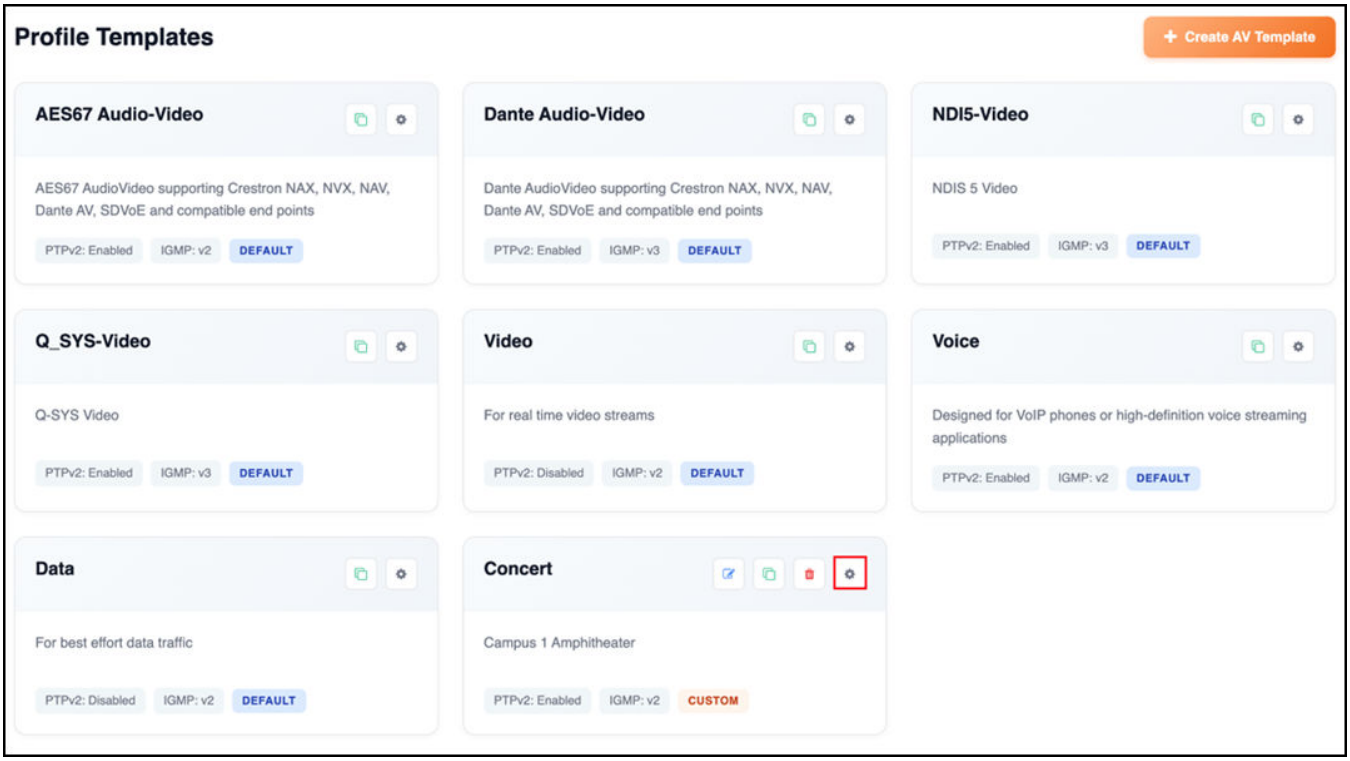
1. From the navigation bar, select **Configure** > **AV Network Profiles** and scroll down to the **Profile Templates** section.

   NOTE
   AV Profiles are not supported on switches configured with a Link Aggregation Group (LAG). Remove all LAG configurations before applying an AV Profile.

2. Click the ⚙ icon in the template you wish to apply. The following figure has selected **Concert**

   The **Configure Profile** pop-up is displayed.

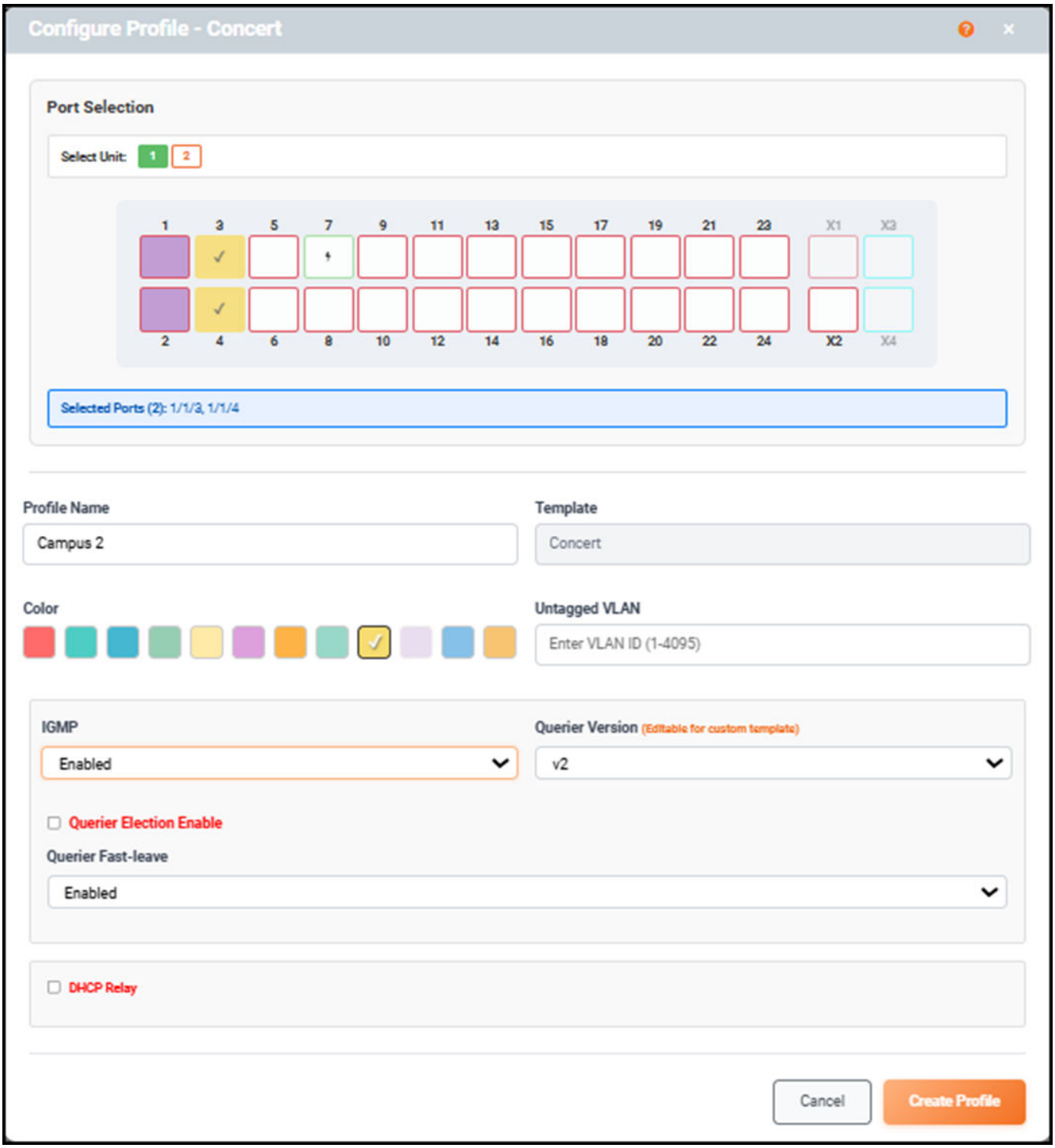
FIGURE 6 Profile Templates Page



3. Click the ports that you want to include in the profile. Each port can be assigned to only one profile.

NOTE
If the switch is part of a stack, select the appropriate stack unit before selecting ports for the profile.

FIGURE 7 Configuring Profile



NOTE

- Ports displayed using a profile color are already assigned to a profile.
- Ports displayed using the selected profile color and a check mark are currently selected for the profile being configured.
- A red border indicates that the port link is down.
- A green border indicates that the port link is up.
- The lightning icon indicates that the port is supplying PoE.

4. For **Profile Name**, enter the name of the profile; select a color for the switch ports; for **Untagged VLAN**, enter the untagged VLAN ID. If required, enable the **Querier Election Enable** and **DHCP Relay** options by selecting the corresponding checkboxes.

   The VLAN ID range is from 1 through 4095. The default VLAN ID is 1. The following VLAN IDs are reserved:

   - 4087
   - 4090
   - 4091
   - 4092
   - 4094

   NOTE
   RUCKUS recommends that you do not use the default VLAN ID or any reserved VLAN IDs.

   NOTE
   If the specified VLAN ID does not exist on the switch, the switch creates the VLAN and applies the selected IGMP and DHCP settings. The ports assigned to the profile are configured as untagged members of the VLAN. All other ports on the switch are configured as tagged members of the VLAN. Deleting the profile also deletes the VLAN from the switch configuration.

5. Click **Create Profile** to complete the configuration.

   The newly created profile is displayed in the **Configured Profiles** section.

   NOTE
   You can use the same custom template to create more profiles in the same switch in case you need to define different VLANs, IGMP, or DHCP relay configuration but maintaining the same AV settings.

Connecting to the Serial Port of the ICX Pro AV Switch and Configuring a Static IP Address

Complete the following steps to log in to the ICX Pro AV switch through the serial port and configure a static IPv4 address.

1. Connect your computer to the serial port of the switch using the USB Type-C to USB Type-A cable.
2. Use a terminal emulator application such as PuTTY or a similar tool to establish a serial connection. Log in to the Pro AV switch using the default credentials (**super/sp-admin**) if the switch is still in its factory-default state, or use the credentials you configured previously.

   NOTE
   Assuming a Windows environment, configure the session parameters as 8 data bits, no parity, 1 stop bit, no flow control, and 9600 baud rate.

   After the first login, you will be prompted to change the default password.

3. Use the following CLI commands to access global configuration mode.

```
device> enable
No password has been assigned yet...
device# configure terminal
device (config)#
```

4. Use the **ip dhcp-client disable** command to disable the DHCP client service.

```
device(config)# ip dhcp-client disable
```

5. Use the **no ip dhcp-client ve default** command to disable the DHCP setting for VE interfaces.

```
device(config)# no ip dhcp-client ve default
```

6. Use the **interface ve 1** command to enter the VE 1 configuration mode and set the IP address using the **ip address** command followed by the IPv4 address and the subnet mask.

```
device(config)# interface ve 1
device(config-vif-1)# ip address 192.168.100.253/24
```

7. Use the **end** command to return to the Privileged EXEC mode and enter the **ping** command followed by the IPv4 address of a known host to test connectivity.

```
device(config-vif-1)# end
device# ping 192.168.31.1
```

8. Use the **write memory** command to save the configuration.

```
device# write memory
Flash Memory Write (8192 bytes per dot)
.
Write startup-config done.
Copy Done.
```

Device Management Options

You can manage the switch using any of the management tools that provide Out-of-Band and In-Band support, as listed in the following table.

Management Tool	Reference Documents
RUCKUS Unleashed	*RUCKUS Unleashed User Guide, Release 200.19*
RUCKUS One	*RUCKUS One User Guide*

Performing a Factory Reset

Complete the following steps to perform a factory reset using the **RESET** button.

1. Remove power from the switch.
2. Press and hold the reset button while applying power to the switch.
3. Release the reset button as soon as all the system LEDs begin to flash amber.

If you do not release the reset button within five seconds of all system LEDs beginning to flash amber, the factory reset will not occur.

When all the system LEDs blink green (blue for ICX8200-C08PFV and ICX8200-24PV), all the configuration data is erased and the switch is returned to its factory configuration. When all the system LEDs are solid green, the erase process is complete and the system reloads. Once reloaded and the SYS LED is steady green, the factory reset is complete.

NOTE
You can also perform the factory reset by using the CLI. For instructions, refer to the **erase system factory-default** command in the *RUCKUS FastIron Command Reference Guide*. Be aware that this command erases the configuration file, the license, and all core dump files. (If you want to keep your license, you can use the **erase startup-config** command, then reload ICX without saving the configuration file when prompted.)

For More Information

For detailed instructions on installing, configuring, and managing the RUCKUS Pro AV switch, refer to the hardware installation guide depending on your device model.

RUCKUS ICX 8100 Switch Hardware Installation Guide	RUCKUS ICX 8200 Switch Hardware Installation Guide

For the product data sheet, refer to the *RUCKUS ICX 8100 Datasheet* and *RUCKUS ICX 8200 Datasheet*.

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