How to Deploy WiFi Network Connectivity on the SV-4K

Dynamic Signage Director

Software Release: 5.0.0-123 and Later Releases

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Introduction

WiFi network support is useful when you need to deploy SV-4Ks in areas where there is no existing Ethernet cabling, where it is difficult to run cabling, or simply as an alternative to Ethernet network connectivity.

Note: For initial deployment of an SV-4K with WiFi connectivity, you will need both a POE+ network connection in addition to connection of the SV-4K using the DMP power supply adapter. After the DMP is deployed for WiFi, a POE+ connection is no longer needed for the DMP. In fact, the DMP will not route packets over the WiFi connection while the Ethernet port is connected and operational.

Support for wireless network connectivity to the SV-4K is available over an 802.11a, 802.11b, or 802.11n wireless network in the Cisco Vision Dynamic Signage Director venue beginning in Release 5.0.

The wireless network SSID and passphrase is configured globally for all SV-4Ks in the system. The SV-4K firmware automatically tries to connect with WEP (if the passphrase is of a suitable length), WPA1 or WPA2.

Requirements

- The system is running Cisco Vision Dynamic Signage Director Release 5.0 or later.
- A WiFi access point is set up and configured to receive multicast messages.
- A POE+ connection is available for initial deployment of the SV-4K.
- An SV-4K power adapter is available.

Limitations

- Multicast video is not supported due to bandwidth limitations over a wireless network.
- TV on/off multicast control messages are sent one time only. If the message is lost, then a TV might not power on or off as expected.
- If a data feed using multicast is dropped, the DMP continues to show old data or no data if the first message is lost.

Required Configuration

1. Log in to Cisco Dynamic Signage Director as an administrator.
2. From the Management Dashboard, go to:

   Dynamic Signage Director Configuration > **System Configuration** > **Global DMP Settings** > **SV-4K Settings**
3. Specify the Global SSID and Wifi Passphrase properties:

Figure 1   SV-4K WiFi Global SSID and WiFi Passphrase Configuration
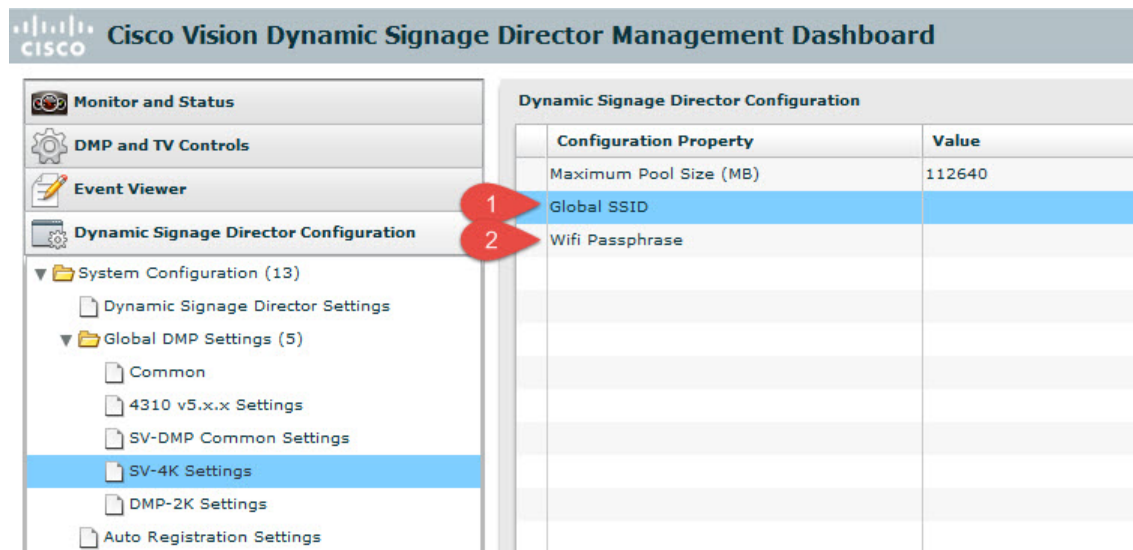
1	Global SSID—Type the network SSID to be used by all SV-4Ks in the system that are using a WiFi connection.	2	Wifi Passphrase—Type the WEP, WPA1, or WPA2 passphrase.

4. Save the configuration.
5. Connect the SV-4K device using a *hard-wired Ethernet PoE+ connection*.

6. Do one of the following:

   Required for Initial Setup of the SV-4K for Operation in Cisco Vision Dynamic Signage Director Release 5.0:

   – Provision the SV-4K according to the normal auto-registration process to download the required firmware and WiFi credentials.

     Note: These steps do not detail firmware configuration. Be sure that you have already specified the required firmware auto-registration settings for Cisco Vision Dynamic Signage Director Release 5.0.

   See Cisco Vision Deployment Guide for SV-4K and DMP-2K Media Players: Dynamic Signage Director (StadiumVision Director) Release 5.0 and Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director (StadiumVision Director) Release 5.0.

   If you have already provisioned the SV-4K for Cisco Vision Dynamic Signage Director Release 5.0:

   – Reboot the SV-4K from the Management Dashboard.

7. Enable wireless connectivity on a per-DMP basis. Go to:

   Control Panel > **Setup** > **Devices** > **DMP+Location**

8. Select the SV-4K device(s) that you want to configure.

9. Beside the "Wifi Enabled" option, click **Yes**. Then, click **Save**.

   Figure 2   WiFi Enabled Option Under SV-4K Device Settings
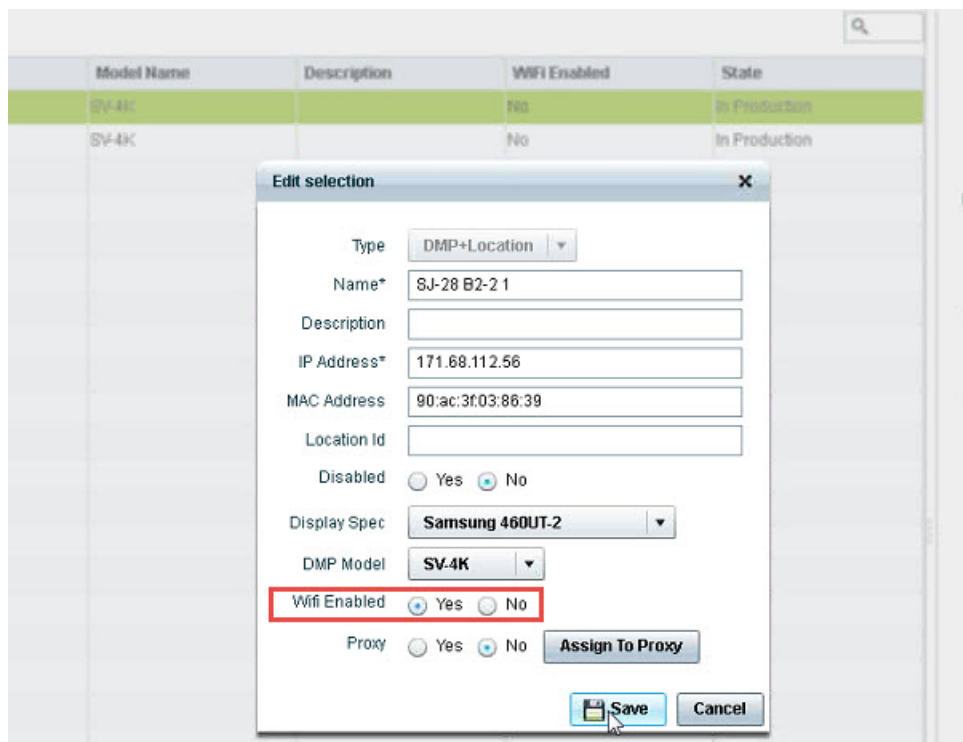
Note: You can also use the BAT tool to set the Wifi Enabled property for SV-4K devices.

10. Reboot the SV-4K.

11. Verify WiFi connectivity is successful when the WiFi LED stays lit.

    12. Remove the Ethernet cable and plug in the SV-4K power adapter.

    13. Reboot the SV-4K.