



Cisco StadiumVision

- [Cisco StadiumVision, on page 1](#)
- [Configure Cisco StadiumVision parameters \(GUI\), on page 2](#)
- [Configure Cisco StadiumVision parameters \(CLI\), on page 2](#)
- [Verify StadiumVision configurations, on page 3](#)

Cisco StadiumVision

Cisco StadiumVision is a high-definition IPTV solution that:

- provides advanced digital content management and delivery,
- transforms the appearance and atmosphere of venues, and
- is built on the Cisco Connected Stadium solution.

This technology enables replay of critical moments of a game on Wi-Fi-capable devices.

To enable Cisco StadiumVision on the controller, you need to configure these parameters:

1. On the Wireless Controller :
 - Multicast Data Rate
 - RX Sensitivity SOP
 - Multicast Buffer
2. CAPWAP
3. AP Radio Driver and Firmware:
 - Multicast Data Rate
 - RX Sensitivity SOP
 - Multicast Buffer

Configure Cisco StadiumVision parameters (GUI)

This task describes how to configure parameters for Cisco StadiumVision using the GUI.

Procedure

- Step 1** Choose **Configuration > Wireless > Advanced**.
 - Step 2** Click the **High Density** tab.
 - Step 3** Set the **Multicast Data Rate** for 5 GHz radio or 2.4 GHz radio using the respective drop-down lists.
 - Step 4** Click **Apply** to save the settings.
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Upon completion, the wireless parameters for StadiumVision will be configured successfully.

Configure Cisco StadiumVision parameters (CLI)

This task provides instructions for configuring various parameters in Cisco StadiumVision, including WLAN, enhanced multicast buffer size, and radio receive sensitivity SOP thresholds.

- Multicast buffer and data rate configurations are supported for all AP models.

Procedure

- Step 1** Configure WLAN

Example:

```
Device(config)# wlan wlan1 10
```

Configures a WLAN.

- Step 2** Configure enhanced multicast buffer size

Example:

```
Device(config-wlan)# multicast buffer 45
```

Configures enhanced multicast buffer size between 30 (default) and 60 on a WLAN.

Note

You can enable only two out of the possible 512 WLANs configured on the controller and embedded wireless controller for enhanced multicast buffers.

- Step 3** Configure the radio receive sensitivity SOP threshold

Example:

```
Device(config)# ap dot11 [5ghz| 24ghz] rx-sop threshold custom -70
```

Configures the radio receive sensitivity SOP threshold between -60 to -85 dB, which can also be configured as predefined auto, low, high, medium values specific to 5ghz or 24ghz bands.

By default, the configuration is disabled and its value is set to *auto*. If the RxSOP value of *auto* (0) is pushed, then the AP considers the value burnt-in during manufacturing.

Upon completion of these configurations, the Cisco StadiumVision system will operate with the new settings applied, enhancing performance and compatibility based on the configured parameters.

Verify StadiumVision configurations

- `show ap rf-profile name rf-name detail`
- `show ap dot11 5ghz high-density`

Rx SOP

```
Device#show ap rf-profile name Typical_Client_Density_rf_5gh detail | i SOP
Rx SOP Threshold           : auto
```

Multicast Buffer

```
Device#show wlan id 1 | sec Buffer
Multicast Buffer           : Enabled
Multicast Buffer Size      : 45
```

Device#

```
Device#sh wlan name vwlc-OpenAuth | inc Buffer
Multicast Buffer           : Enabled
Multicast Buffer Size      : 45
Device#
```

Multicast Data Rate

```
Device#sh ap dot11 24ghz high-density
AP Name           Mac Address           Slot           Rxsop
Threshold Type Value (dbm)           Multicast Data Rate(Mbps)
-----
test-1800-AP      aaaa.bbbb.cccc           0           auto
                  0                          54
AP4001.7AB2.BEB6 aaab.bbbb.cccc           2           auto
                  0                          54
AP70DF.2FA2.72EE aaac.bbbb.cccc           0           auto
                  0                          0
```

```
Device#show ap dot11 5ghz high-density
AP Name           Mac Address           Slot           Rxsop
Threshold Type Value (dbm)           Multicast Data Rate(Mbps)
-----
Saji-1800-AP      aaab.bbbb.cccc           1           auto
```

```

0
Saji-2802I-AP 12
-82 aaab.bbbb.cccc 0 custom
Saji-2802I-AP 12
-82 aaac.bbbb.cccc 1 custom
AP4001.7AB2.BEB6 12
-82 aaad.bbbb.cccc 0 custom
AP4001.7AB2.BEB6 12
-82 aaaa.bbbb.cccc 1 custom
AP500F.8086.8B56 0
-82 aaaf.bbbb.cccc 0 custom
AP500F.8086.8B56 12
-82 aaag.bbb.cccc 1 custom
AP70DF.2FA2.72EE 12
0 aaah.bbbb.cccc 1 auto
0

```

Device#

```
Device(config)#ap dot11 5ghz rf-profile test_5ghz_rf
```

```
Device(config-rf-profile)#high-density multicast data-rate RATE_18M
```

```
Device# show ap rf-profile name test_5ghz_rf detail | inc Multicast
```

```
Multicast Data Rate
```

```
: 18 Mbps
```

Device#