Cisco StadiumVision

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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.

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                        12
Saji-2802I-AP                    aaab.bbbb.cccc            0         custom
         -82                      12
Saji-2802I-AP                    aaac.bbbb.cccc            1         custom
         -82                      12
AP4001.7AB2.BEB6                 aaad.bbbb.cccc            0         custom
         -82                      12
AP4001.7AB2.BEB6                 aaae.bbbb.cccc            1         custom
         -82                      0
AP500F.8086.8B56                 aaaf.bbbb.cccc            0         custom
```

```
         -82                          12
AP500F.8086.8B56                  aaag.bbb.cccc            1          custom
         -82                          12
AP70DF.2FA2.72EE                  aaah.bbbb.cccc            1          auto
        0                            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#
```