

Configuring and Validating Smart Licensing

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Overview of Smart Licensing Support

Smart licensing for access point running in URWB mode supports the following scenarios:

- Smart license management provides a seamless experience with the various aspects of licensing.
- License level controls the features by essential, advantage, and premier mode.
- IoT specific seats will cache a device list in the mobility scenario and seats reserves some license usage which is the expected maximum number of devices in the managed network.
- Smart transport mode connects to smart software manager (SSM) (formerly it was CSSM) directly to sync license usage.
- Airgap mode uses the downloaded file to sync with SSM manually.
- You should configure same license level on both primary and secondary Layer 2 ME (Mesh End) or Layer 3 Global Gateway (GGW).



Note Ensure you to sync up the device for correct time with NTP server to establish connection with SSM successfully.

From release 17.12.1, the smart licensing supports the following enhancements:

- Seats and license level management for both Catalysts IW9165 and IW9167
- · CLI command to check configured and current seats values
- · CLI command to check running license level

License level and seats configuration are available for the following device roles:

- ME (Mesh End) fixed infrastructure network
- ME Fluidity Layer 2 network
- Global Gateways (GGW) Fluidity Layer 3 network

A Resource Utilisation Measurement (RUM) report counts the number of devices using license seats for a specific feature to configure seats for each entitlement tag.

Smart license level for Catalysts IW9167 and IW9165 control the feature list using the following tables:

Table 1: Smart license level for Catalyst IW9167

License Type	Features
	• Unlimited fixed throughput
Essentials	• Unlimited AP mobility throughput
	• 0.5 Mbps Mobility client throughput
	• Unlimited fixed throughput
	• Unlimited AP mobility throughput
Advantage	• 50 Mbps vehicle mobility throughput
	Multipath Operation (MPO)
	• Unlimited fixed throughput
	• Unlimited AP mobility throughput
Premier	• Unlimited vehicle mobility throughput
	• MPO

Table 2: Smart license level for Catalyst IW9165

License Type	Features
	• Unlimited fixed throughput
Essentials	• 15 Mbps AP mobility throughput
	• 5 Mbps vehicle mobility throughput
Advantage	• Unlimited fixed throughput
	• 50 Mbps AP mobility throughput
	• 50 Mbps vehicle mobility throughput
	• MPO

License Type	Features
	• Unlimited fixed throughput
	• Unlimited AP mobility throughput
Premier	• Unlimited vehicle mobility throughput
	• MPO

Configuring and Validating Smart Licensing from CLI

To configure smart license, use the following CLI command:

Device# configure license iw-level [advantage | essentials | premier]

advantage: Network Advantage for Radios essentials: Network Essentials for Radios premier: Network Premier for Radios

To configure smart license device number, use the following CLI command:

Device# configure license iw-network seats 6

To configure smart license online deployment, use the following CLI command:

Device# configure license smart transport smart Device# configure license Device# configure license smart proxy address 192.168.1.1 (Optional) Device# configure license smart proxy port 3128 (Optional) Device# license smart trust idtoken <id_token_generate_from_SSM> local Device# configure license smart usage interval 50 (Optional)

To configure smart license offline deployment, use the following CLI command:

```
Device# configure license smart transport off
Device# license smart save usage all tftp://192.168.216.201/rum_report_all.xml
Device# license smart import tftp://192.168.216.201/rum report ack.xml
```

To configure reset license configuration as default, use the following CLI command:

Device# license smart factory reset



Note Note: Use reload command to clear all license configurations, do not use the write command.

To validate smart license type, use the following show command:

```
Device# show license usage
License Authorization Status: Not Applicable
IW9167_URWB_NW_A(IW9167_URWB_NW_A);
Description: Network Advantage for Catalyst Industrial Wireless CURWB Radios
Count: 1
Version: 0.1
Status: IN USE
Export Status: NOT RESTRICTED
Feature Name: IW9167_URWB_NW_A
```

To validate smart license device number, use the following show command:

```
Device# show license iw seats 6
```

To validate smart license usage count, use the following show command:

```
Device# show license summary
Account information:
Smart account <none>
Virtual account <none>
License Usage:
License : IW9167_URWB_NW_A
Entitlement Tag : (IW9167_URWB_NW_A)
Count Status : 6 IN USE
```

Note License usage count = max (configured license seats and active devices).

When the device is offline, it's record paging time is two days.

When active devices are more than configured license seats, ME sends the license usage report to SSM once in eight days.

To validate smart license HA (High Availability) role, use the following show command:

```
Primary ME# show license tech support
License Usage
_____
Handle 1
......
Measurements:
ENTITLEMENT:
Interval: 00: 15: 00
Current value: 0
Application Name: UrwbSLP
Application id: UrwbHA
Application Role: Active
Peer info:
Application Name: UrwbSLP
Application id: UrwbHA
Application Role: Standby
PID: 'nullPtr'
UDI: P: IW9167EH-B, S: KWC26330HMR
Smart Account Name: 'nullPtr'
Virtual Account Name: 'nullPtr'
Standy ME# show license tech support
License Usage
_____
Handle 1
......
Measurements:
ENTITLEMENT:
Interval: 00: 15: 00
Current value: 0
Application Name: UrwbSLP
Application id: UrwbHA
Application Role: Standby
Peer info:
Application Name: UrwbSLP
Application id: UrwbHA
Application Role: Active
PID: 'nullPtr'
UDI: P: IW9167EH-B, S: KWC26330HLF
```

Smart Account Name: 'nullPtr' Virtual Account Name: 'nullPtr'

To validate smart license SSM connection, use the following show command:

```
Device# show license status
.....
Account information
Smart Account SA-IOT-Polaris As of Sep 28 2022 11: 04:03 CST
Virtual Account: CURWB
Transport:
Type: Smart
Proxy:
Address: 192.168.216.201
Port: 3128
..... .
Policy
Policy in use: Installed on Sep 28 2022 11: 04:03 CST
Policy name: Test policy
Reporting ACK required: no (Customer Policy)
First report requirement (days): 94 (Customer Policy)
Report on change (days): 100 (Customer Policy)
```

Configuring Smart Licensing from GUI

To configure smart licensing using GUI, follow these steps:

- 1. Select the network license level for the URWB network.
- 2. Verify that the licence level is controlled by SSM and is connected to software features.
- **3.** Set the network seats to consume usage for particular license level (example: Network Essentials for Radios).
- 4. To download a usage, go to **Download Usage** section, choose an option **ALL** from the **Usage range** drop-down list and then click **Download**.
 - Save all RUM reports (license usage information) using an option All.
 - Save RUM report for the last n number of days (excluding the current day) use an option in the **Days** field.
- 5. In the Upload CSSM Ack section, for sync license usage, click BROWSE to import the ACK (Acknowledge) that downloaded from SSM on the production instance when smart agent is in Airgap (Offline) Mode.

The following images are the examples of configuring smart licensing (both online and offline mode):

ULTRA RELIABLE WIRELESS BACKHAUL	5.21.201.88 - MESH END MODE
OTOD IW Offline	SMART LICENSE
W-MONITOR Disabled	Smart License Settings
EM-OUADRO	Select the network license level for Cisco URWB stack.
The QOADICO	The license level is bound to software features and monitored by the CSSM. Set the network seats to consume usage for particular license level.
GENERAL SETTINGS	License Level: Network Essentials for Radios V
- general mode	
- wireless radio	Platform IW9165 License Seats: 0
NETWORK CONTROL	Platform IW9167 License Seats: 0
- advanced tools	
ADVANCED SETTINGS	
- advanced radio settings	Reset
- static routes	
- multicast	Smart Agent is set to Online Mode
- snmp	
- radius	
- ntp - othermet filter	
- I2tp configuration	
- vlan settings	
- Fluidity	
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- remote access	
- firmware upgrade	
- status	
configuration settings reset factory default	
- reboot	
- logout	
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FM-QUADRO	Select the network license level for Cisco URWB stack. The license level is bound to software features and monitored by the CSSM. Set the network seats to consume usame for particular license level	
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Configuring Smart License Seats Management using CLI

To configure a smart license seats, use the following show command:

```
Device# configure license iw-network seats platform
iw9165 iw9167
WORD Select one above platform (case sensitive) to configure seats.
```

Example:

Device# configure license iw-network seats platform iw9165 12 Device# configure license iw-network seats platform iw9167 15

Verifying license iw-seats using CLI

To verify the license seats, use the following show command:

Device# show license iw seats Platform Configured Current IW9167 0 15 IW9165 0 12 Device# write Device# reload Device# show license iw seats Platform Configured Current IW9167 15 15 IW9165 12 12

Configuring Smart License Seats Management using GUI

To select the network license level for URWB stack, follow these steps:

- 1. In the Advanced Settings, click smart license.
- 2. In the Smart License Settings, choose License level.
- 3. Enter Platform IW9165 License Seats value.
- 4. Enter Platform IW9167 License Seats value.
- 5. Click Save.

Configuring Running License Level using CLI

The license level is configured by the primary ME or GGW device (based on network configuration) then the license level is distributed and applied to all the devices connected to the network.

To configure a license level for ME and GGW (license distributor), use the following CLI command:

```
Device# configure license iw-level
Advantage: Network Advantage for Radios
essentials: Network Essentials for Radios
premier: Network Premier for Radios
```

Example:

Device# configure license iw-level [premier | essentials | Advantage]

To verify the license level for ME and GGW, use the following show command:

```
Device# show license iw level
Configured IW Network License: ESSENTIALS
Running IW Network License: PREMIER
Device# write
Device# reload
Device# show license iw level
Configured IW Network License: PREMIER
Running IW Network License: PREMIER
```

To verify the license level for MP (license receiver), use the following show command:

Device# show license iw level Running IW Network License: PREMIER



Note License level configuration is not allowed.