



Configuring and Validating Smart Licensing

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Overview of Smart Licensing Support

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

- Smart license management provides a seamless experience with the various aspects of licensing.
- Gateway controls the feature based on the license type:
 - Essentials
 - Advantage
 - Premier
- The platform can specify the number of license seats reserved. The system reports the higher value between the reserved license count and the actual licenses consumed. You can specify the number of purchased licenses for a deployment to avoid triggering a reporting event as the number fluctuates, provided that it remains equal to or less than the number of seats reserved.
- 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.
- All radio devices in URWB mode (such as Catalysts IW9167E and IW9165) in the same URWB network require the same license level. This license level is set globally at the Mesh End or Global Mesh end. The license levels for gateways is configured independently on each gateway. It can be configured at a different level than the radio devices in the network.

Table 1: Smart license level for IEC6400 Gateway

License Type	Features
Essentials	<ul style="list-style-type: none"> • 5 Gbps fixed throughput • 5 Gbps gateway mobility throughput • 5 Gbps vehicle mobility throughput
Advantage	<ul style="list-style-type: none"> • 10 Gbps fixed throughput • 10 Gbps gateway mobility throughput • 10 Gbps vehicle mobility throughput
Premier	<ul style="list-style-type: none"> • 40 Gbps fixed throughput • 40 Gbps gateway mobility throughput • 40 Gbps vehicle mobility throughput



Note Industrial protocols support and Titan (High Availability) capabilities are always included in all the license tiers.

Configuring and Validating Smart Licensing Using CLI

To configure a smart license for the IEC6400 gateway, use the following CLI command:

Command or Action	Purpose
To configure a smart license	<pre>Device# license iec-level [advantage essentials premier] advantage Network Advantage for Gateway essentials Network Essentials for Gateway premier Network Premier for Gateway</pre> <p>Note The IEC license must be configured on each IEC6400 gateway in the network.</p>
To configure a smart license for Catalyst IW916x devices	<pre>Device# license iw-level [advantage essentials premier] advantage Network Advantage for Radios essentials Network Essentials for Radios premier Network Premier for Radios</pre>
To configure the smart license Seats number for Catalyst IW916x devices	<pre>Device# license iw-network platform [iw9165 iw9167] seats 6 iw9165 iw9165 Platform iw9167 iw9167 Platform</pre>

Command or Action	Purpose
To configure the smart license online deployment	<pre>Device# license smart transport smart Device# license smart proxy address 192.168.1.1 (Optional) Device# license smart proxy port 3128 (Optional) Device# license smart trust idtoken <id_token_generate_from_SSM> local [force] force Force CSSM to generate new trust code Device# license smart usage interval 50 (Optional)</pre>
To configure smart license offline deployment	<pre>Device# 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</pre>
To configure the reset license configuration as default	<pre>Device# license smart factory reset</pre> <p>Note Do not give CLI command as reload, it clears all the license configuration.</p>
To validate smart license type	<pre>Device# license show usage License Authorization: Status: Not Applicable IEC6400_URWB_NW_E (IEC6400_URWB_NW_E): Description: Cisco URWB Network Essentials for IEC6400 Edge Compute Platform Count: 1 Version: 01 Status: IN USE Export status: NOT RESTRICTED Feature Name: IEC6400_URWB_NW_E Feature Description: Cisco URWB Network Essentials for IEC6400 Edge Compute Platform Enforcement type: NOT ENFORCED License type: Perpetual</pre>
To validate the smart license gateway number	<pre>Device# license show iw seats Platform Configured Current IW9167 0 0 IW9165 0 0</pre>
To validate the smart license usage count	<pre>Device# license show summary Account Information: Smart Account: <none> Virtual Account: <none> License Usage: License Entitlement Tag Count Status</pre> <hr/> <pre>IEC6400_URWB_NW_E (IEC6400_URWB_NW_E) 1 IN USE</pre>

Configuring Smart Licensing using GUI

Before you begin

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

Procedure

- Step 1** In the **ADVANCED SETTINGS**, click **smart license**.
The **SMART LICENSE** window appears.

SMART LICENSE

Smart License Settings

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 usage for particular license level.

License Level: Network Advantage for Radios ▾

Platform IW9167 License Seats: 0

Platform IW9165 License Seats: 0

Reset Save

IEC Smart License Settings

Select the network license level for Cisco URWB stack.
The license level is bound to software features and monitored by the CSSM.

License Level: Network Essentials for IEC ▾

Reset Save

Smart Agent is set to Online Mode

- Step 2** In the **Smart License Settings** section, configure the following parameters:
- Choose license level from the **License Level** drop-down list.
 - Enter the platform iw9167 license seats value in the **Platform IW9167 License Seats** field.
 - Enter the platform iw9165 license seats value in the **Platform IW9165 License Seats** field.

Note

There are no seats defined for the IEC6400 license.

- Step 3** Click **Save**.

- Step 4** In the **IEC Smart License Settings** section, choose license level from the **License Level** drop-down list.

Step 5 Click Save.

Configuring Smart License Seats Management using CLI

To configure a smart license seat, use the following CLI command:

```
Device# license iw-network platform [ iw9165 | iw9167 ] seats
```

Example:

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

Configuring Running License Level using CLI

The license level, for Catalyst IW916x devices, is configured by the primary Mesh End (ME) or GGW gateway (based on network configuration) then the license level applied to all the gateways connected to the network.

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

```
Device# license iw-level [ advantage | essentials | premier ]
      advantage   Network Advantage for Radios
      essentials   Network Essentials for Radios
      premier      Network Premier for Radios
```

The license level for IEC6400 devices needs to be configured on each IEC device.

To configure a license level for an IEC device, use the following CLI command:

```
Device# license iec-level
      advantage   Network Advantage for Gateway
      essentials   Network Essentials for Gateway
      premier      Network Premier for Gateway
```

Verifying License Smart License Seat using CLI

To verify the configured smart license seat, use the following CLI command:

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

Configuring Running License Level for Gateway using CLI

To configure the license level for the gateway, use the following CLI command:

```
Device# license iec-level [ advantage | essentials | premier ]  
advantage: Network Advantage for Radios  
essentials: Network Essentials for Radios  
premier: Network Premier for Radios
```