

### **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	• 5 Gbps fixed throughput
	• 5 Gbps gateway mobility throughput
	• 5 Gbps vehicle mobility throughput
Advantage	• 10 Gbps fixed throughput
	• 10 Gbps gateway mobility throughput
	• 10 Gbps vehicle mobility throughput
Premier	• 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	Device# license iec-level [advantage   essentials   premier] advantage Network Advantage for Gateway essentials Network Essentials for Gateway premier Network Premier for Gateway
	Note The IEC license must be configured on each IEC6400 gateway in the network.
To configure a smart license for Catalyst IW916x devices	Device# license iw-level [advantage   essentials   premier] advantage Network Advantage for Radios essentials Network Essentials for Radios premier Network Premier for Radios
To configure the smart license Seats number for Catalyst IW916x devices	Device# license iw-network platform [iw9165   iw9167] seats 6 iw9165 iw9165 Platform iw9167 iw9167 Platform

Command or Action	Purpose
To configure the smart license online deployment	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</id_token_generate_from_ssm>
To configure smart license offline deployment	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
To configure the reset license configuration as default	Note Do not give CLI command as reload, it clears all the license configuration.
To validate smart license type	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
To validate the smart license gateway number	Device# license show iw seats Platform Configured Current IW9167 0 0 IW9165 0 0
To validate the smart license usage count	Device# license show summary Account Information:    Smart Account: <none></none>

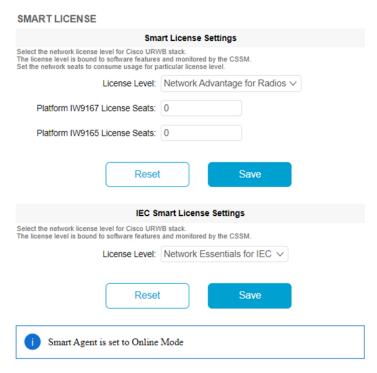
## **Configuring Smart Licensing using GUI**

### 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.



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