# Enable License Boot Level and Addon on Catalyst 8000V Edge Software

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## Introduction

This document describes the steps required to enable the license boot level for the Cisco Catalyst 8000V Edge Software.

## Prerequisites

Pre-deployed Catalyst 8000V Edge Software, registered with the Smart Licensing Using Policy.

### Requirements

Cisco recommends that you have knowledge of these topics:

- Catalyst 8000V Edge Software basic configuration
- Smart Licensing Using Policy configuration

### Components Used

The information in this document is based on these software versions:

- Catalyst 8000V Edge Software with Cisco IOS® XE v17.4.1

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Background Information

When you boot a Catalyst 8000V Edge Software instance for the first time, the mode router boots in depends on the release version. You must install the software license or enable an evaluation license to

obtain the supported throughput and features. Based on the release version, you must enable the boot level, or change the maximum throughput level and reboot the device.

In some Cat8000V Edge Software deployments that run Cisco IOS® XE version 17.4.x, the license boot level is not set. This causes problems with the license based features in the virtual router.

Here you have an example from where the boot level is not set:

```
<#root>

Cat8000#

show version

...

License Level:

License Type: Perpetual
Next reload license Level:

Addon License Level:

Addon License Type: Subscription
Next reload addon license Level:
```

You have three options to setup the boot level in the virtual router: Network-Advantage, Network-Essentials, and Network-Premiere.

```
<#root>

Cat8000#configure terminal

Cat8000(config)#license boot level ?

network-advantage License Level Network-Advantage

network-essentials License Level Network-Essentials

network-premier License Level Network-Premier
```

You have three options to configure the addon, based on the boot level that you choose: Cisco DNA-Advantage, Cisco DNA-Essentials and Cisco DNA-Premiere.

<#root>

```
Cat8000(config)#license boot level network-essentials addon ?
```

**Cisco DNA-essentials Add-on option Cisco DNA-Essentials**

```
Cat8000(config)#license boot level network-premier addon ?
```

**Cisco DNA-premier Add-on option Cisco DNA-Premier**

```
Cat8000(config)#license boot level network-advantage addon ?
```

**Cisco DNA-advantage Add-on option Cisco DNA-Advantage**

**Note**: In order to check the features provided by each of the license boot levels and its addon, you can review the next document. Cisco DNA Software Subscription Matrix for Switching

# Configure

The Network-Essentials boot level with the Cisco DNA-Essentials addon is shown in this Catalyst 8000V Edge Software configuration example.

## Configuration Steps

Step 1. In order to configure the Cisco Network-Essentials boot level, get into the router global configuration and apply the next command.

<#root>

```
Cat8000#configure terminal
Cat8000(config)#
```

**license boot level network-essentials**

Step 2. Then, setup the Cisco DNA-essentials addon:

```
<#root>

Cat8000(config)#

license boot level network-essentials addon dna-essentials


% use 'write' command to make license boot config take effect on next boot
```

Step 3. With the **show version** command, you can verify the changes applied, but this takes effect on the next boot.

```
<#root>

Cat8000#

show version


...
License Level:
License Type: Perpetual

Next reload license Level: Cisco network-essentials



Addon License Level:
Addon License Type: Subscription

Next reload addon license Level: Cisco DNA-essentials
```

Step 4. Save the configuration changes.

```
<#root>

Cat8000#

write
```

Step 5. You must reload the device for the changes to take effect.

```
<#root>

Cat8000#

reload
```

# Verify

1. After the reload of the Catalyst 8000V Edge Software, use the **show version** command to verify the setup of the boot level and the addon.

```
<#root>

Cat8000#

show version


...

License Level: Cisco network-essentials


License Type: Perpetual
Next reload license Level: network-essentials


Addon License Level: Cisco DNA-essentials


Addon License Type: Subscription
Next reload addon license Level: dna-essentials
```

2. Use the **show license status** command to check the Catalyst 8000V Edge Software is registered to Smart Licensing Using Policy.

```
<#root>

Cat8000#

show license status


Utility:
Status: DISABLED

Smart Licensing Using Policy:

Status: ENABLED
```

```
Data Privacy:
Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:

Type: Smart


URL: https://smartreceiver.cisco.com/licservice/license


Proxy:
Not Configured
...

Usage Reporting:
Last ACK received:

Apr 13 10:51:45 2021 EST


Next ACK deadline:

Jun 12 10:51:45 2021 EST
```

3. Use the **show license status** command to ensure a trust code is installed for the smart transport method. On the **Trust Code Installed** section, it must be updated with the registration date as follows.

```
<#root>

Cat8000#
```

```
show license status

...

Trust Code Installed: Apr 13 10:51:45 2021 EST
```

# Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

# Related Information

- Technical Support & Documentation - Cisco Systems
- Configure Smart Licensing Using Policy on IOS XE Routers