

Licensing and Scaling Guidelines

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Licensing

This section provides information about the licensing packages for features available on Cisco Catalyst 9000 Series Switches.

License Levels

The software features available on Cisco Catalyst 9600 Series Switches fall under these base or add-on license levels.

Base Licenses

Network Advantage

Add-On Licenses

Add-On Licenses require a Network Essentials or Network Advantage as a pre-requisite. The features available with add-on license levels provide Cisco innovations on the switch, as well as on the Cisco Digital Network Architecture Center (Cisco DNA Center).

• DNA Advantage

To find information about platform support and to know which license levels a feature is available with, use Cisco Feature Navigator. To access Cisco Feature Navigator, go to https://cfnng.cisco.com. An account on cisco.com is not required.

Available Licensing Models and Configuration Information

• Cisco IOS XE Gibraltar 16.11.1 to Cisco IOS XE Amsterdam 17.3.1: Smart Licensing is the default and the only supported method to manage licenses.

In the software configuration guide of the required release, see System Management \rightarrow Configuring Smart Licensing.

Cisco IOS XE Amsterdam 17.3.2a and later: Smart Licensing Using Policy, which is an enhanced version
of Smart Licensing, is the default and the only supported method to manage licenses.

In the software configuration guide of the required release (17.3.x onwards), see System Management \rightarrow Smart Licensing Using Policy.

For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide.

License Levels - Usage Guidelines

• The duration or term for which a purchased license is valid:

Smart Licensing Using Policy	Smart Licensing
• Perpetual: There is no expiration date for such a license.	• Permanent: for a license level, and without an expiration date.
• Subscription: The license is valid only until a certain date (for a three, five, or seven year period).	 Term: for a license level, and for a three, five, or seven year period. Evaluation: a license that is not registered.

• Base licenses (Network-Advantage) are ordered and fulfilled only with a perpetual or permanent license type.

- Add-on licenses (DNA Advantage) are ordered and fulfilled only with a subscription or term license type.
- An add-on license level is included when you choose a network license level. If you use DNA features, renew the license before term expiry, to continue using it, or deactivate the add-on license and then reload the switch to continue operating with the base license capabilities.
- Evaluation licenses cannot be ordered. They are not tracked via Cisco Smart Software Manager and expire after a 90-day period. Evaluation licenses can be used only once on the switch and cannot be regenerated. Warning system messages about an evaluation license expiry are generated only 275 days after expiration and every week thereafter. An expired evaluation license cannot be reactivated after reload. This applies only to *Smart Licensing*. The notion of evaluation licenses does not apply to *Smart Licensing Using Policy*.

Scaling Guidelines

For information about feature scaling guidelines, see the Cisco Catalyst 9600 Series Switches datasheets at: https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9600-series-switches/nb-06-cat9600-series-data-sheet-cte-en.html https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9600-series-switches/nb-06-cat9600-series-line-data-sheet-cte-en.html https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9600-series-switches/nb-06-cat9600-series-line-data-sheet-cte-en.html https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9600-series-switches/nb-06-cat9600-series-line-data-sheet-cte-en.html