



Cisco APIC Forwarding Scale Profiles

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New and Changed Information

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New and Changed Information

The following table provides an overview of the significant changes to the organization and features in this guide from the release the guide was first published to the current release. The table does not provide an exhaustive list of all changes made to the guide. Specific details about each change are available in the following sections.



Note

If a release is not listed in this document, there are no changes from the prior release and the same scale numbers and profiles apply. For example, the information listed for Release 4.2(31) applies to all 4.2(4) and later releases until 5.0(1).

Table 1: New and Changed Information

Release	New Feature or Update
6.0(3)	For Maximum LPM , added: • N9K-C93180YC-FX with 32GB of RAM • N9K-C93180YC-FX3 with 32GB of RAM
	N9K-C93108TC-FX3P with 32GB of RAM
6.0(2)	 Added support for forwarding scale profiles on Cisco Nexus N9K-C9400-SW-GX2A, N9K-C93180YC-FX3H, and N9K-C93108TC-FX3H switches. Introduced Maximum LPM profile.
5.2(5) and 6.0(1)	Added support for forwarding scale profiles on Cisco Nexus N9K-C9364D-GX2A and N9K-C9348D-GX2A switches.

Release	New Feature or Update
5.2(4)	Added support for forwarding scale profiles on Cisco Nexus N9K-C9336C-FX2-E switches.
5.2(3)	Added support for forwarding scale profiles on Cisco Nexus N9K-C9332D-GX2B switches.
5.2(1)	Added support for High Policy profile on Cisco Nexus C93180YC-FX3 and C93108TC-FX3P switches.
5.1(3)	Added support for forwarding scale profiles on Cisco Nexus C93180YC-FX3 and C93108TC-FX3P switches.
5.1(1)	Introduced High IPv4 EP and Multicast Heavy profiles on Cisco N9K-C93180YC-FX and Cisco N9K-C93600CD-GX switches with 32 GB RAM.
5.0(1)	Added support for High Policy profile on Cisco Nexus 93180YC-EX, Cisco Nexus 9336C-FX2, and Cisco Nexus 93360YC-FX2 switches.
4.2(31)	Added support for all forwarding scale profiles on Cisco Nexus 9364C-GX switches.
4.2(2)	Added support for all forwarding scale profiles on Cisco Nexus 93600CD-GX switches.
4.2(1)	Introduced High Policy profile supported on Cisco Nexus 93180YC-FX switches with 32 GB of RAM.
4.0(1)	Increased the multicast scale on High Dual Stack profile.
3.2(1)	Introduced High LPM profile.
3.1(1)	Introduced High Dual Stack profile.
3.0(1)	Introduced IPv4 Scale profile.



Overview and Guidelines

- Forwarding Scale Profiles Overview, on page 3
- Switch Behavior When Changing Forwarding Scale Profiles, on page 4
- Guidelines and Limitations, on page 4
- Switch Operations and Their Effect on Forwarding Scale Profiles, on page 6

Forwarding Scale Profiles Overview

Cisco ACI and APIC allow you to configure different Forwarding Scale Profiles to suit your topology and deployment use cases. This section describes all Forwarding Scale Profiles and their purpose. Keep in mind, specific profiles may be unavailable in earlier releases or restricted to specific hardware platforms. For detailed information on hardware support and scalability numbers of each profile, see the release-specific chapters.

- **Dual Stack**—The default profile for all new supported switches that allows both IPv4 and IPv6 configurations.
- **High Dual Stack**—Provides increased IPv4, IPv6, and policy scale numbers compared to the default Dual Stack profile. This profile supports different scalability limits based on the specific switch platforms.
- **High LPM**—Provides scalability similar to the Dual Stack profile, but for deployments that require higher scale for longest prefix match (LPM) and lower policy scale.
- **High Policy**—This profile is similar to the Dual Stack profile but with higher policy scale. This profile has specific hardware requirements.
- **IPv4 Scale**—This profile is designed for IPv4-only deployments and allows you to configure higher IPv4 scale where no IPv6 configurations are needed.
- **High IPv4 EP Scale**—This profile is recommended to be used only for the ACI border leaf (BL) switches in Multi-Domain (ACI-SDA) Integration. It provides enhanced IPv4 EP and LPM scales specifically for these BLs and has specific hardware requirements.
- Multicast Heavy—This profiles provides an enhanced multicast scale and has specific hardware requirements.

Switch Behavior When Changing Forwarding Scale Profiles

Each ACI switch has a managed object (MO) called topoctrlFwdScaleProf which describes the existing and configured forward scale profiles on the switch using the following attributes:

- currentProfile, available starting with Release 4.1(1), indicates the forwarding scale profile that is currently running on the switch.
- profType indicates the forwarding scale profile that you configured for the switch.

The following table summarizes the expected behavior when changing the forwarding scale profile on a switch.

Action	Effect
Configured a supported FSP on the	The switch accepts the new forwarding scale profile.
switch	The following specific events occur:
	The profType field changes to the newly configured profile
	APIC prompts you to reload the switch for the change to take effect
	• After you reload the switch, the currentProfile field is updated to the new profile and the new profile takes effect
Configured an unsupported FSP on the switch	The switch does not accept the unsupported FSP and retains its original existing FSP.
	The following specific events occur:
	The profType field changes to the newly configured profile
	The currentProfile field and the currently enabled forwarding scale profile remain unchanged
	APIC does not show the notification to reload that switch
	Whether you reload the switch or not, it will continue to use its existing profile without change.
	Whether you reload the switch or not, the profType field will continue to display the profile you attempted to configure until you manually change it again.

Guidelines and Limitations

- When downgrading to a release that does not support one or more switches in your current fabric, keep the following in mind:
 - If you downgrade your fabric to a release where one or more of your current switches are not supported, those switches will become inactive in the fabric.

- If you later upgrade the fabric to a release where the switch is supported again, the APIC will not regain complete details about the switch. In this case, you will need to explicitly remove the switch from the APIC and then re-add it to the fabric.
- When downgrading to a release that does not support one or more of your current forwarding scale
 profiles, the default forwarding scale profile will be configured on the switch. You must reduce the
 configurations on the switch to fit the default profile before the upgrade.
- Because the IPv4 Scale forwarding scale profile does not support IPv6 configurations, you must remove all IPv6 configurations from the switches that need to be configured with the IPv4 Scale profile.
- Before switching between forwarding scale profiles, the configurations on the switch must be reduced appropriately and thoroughly verified so that scale parameters of the target profile are not exceeded.
- For example, for switch models with EX at the end of the switch name, because the High Dual Stack profile has reduced scale support for contract policies, you must reduce the contracts scale accordingly before deploying that profile.
- Before migrating to minimal tenant multicast scale leaf profiles, such as High Dual Stack, we recommend
 that you first disable Layer 2 IGMP snooping, Layer 3 IGMP, and PIM-related configurations to prevent
 having a stale multicast state in your hardware.
- Applying a forwarding scale profile to a node requires a manual reload of that node. Any unsupported switches are ignored.
- We recommend using switch models of same capacity in a VPC pair when enabling scale profiles.
 Otherwise, the maximum scale will be defined by the member with lower capacity.
- Members of a VPC must be configured with the same scale profile, however the reload required to enable the configured scale profile can be performed for each member one at a time to avoid traffic loss.
- With the default deny model in Cisco ACI, the configured tenant or VRFs have implicit rules that consume several TCAM entries for each VRF. With an increase in the number of VRFs configured on a single switch, these TCAM entries that are used per VRF also count toward the overall policy TCAM usage.
- Reporting of contract rule statistics is subject to the following limitations, depending on the configured scale profile:
 - Contract rule statistics are not reported by switches configured with High Policy scale profiles.
 - Beginning with Release 4.1(1), contract rule statistics are not reported by switches configured with High Dual Stack scale profiles.
 - For all other scale profiles, the maximum number of rules for which statistics are reported is 25,000
- If you need to clear the configurations on the switch, we recommend using the setup-clean-config.sh -k command. The command will clear all configurations on the switch, except the forwarding scale profile and port profile configurations.

Switch Operations and Their Effect on Forwarding Scale Profiles

This section lists various operations on the switch and their effect on the forward scale profile configuration in releases 4.1(1) and later. We recommend that the following operations are performed during a maintenance window.

Operation	Is Forwarding Scale Profile (FSP) Preserved	Additional Details
Upgrade or Downgrade	Yes, if the particular FSP is supported in target version	The switch will retain its forwarding scale profile if the switch model and the deployed forwarding scale profile are supported on both the current and target image versions except in Release 3.2(4d). In Release 3.2(4d), where the scale profile is not preserved with the upgrade, you will need to reload the switch for the original scale profile to take effect.
		If the forwarding scale profile is not supported on the target release, the switch reverts to the default Dual Stack profile.
		If the switch itself is not supported on the target release, the switch will become inactive in the fabric.
Reload the switch	Yes	The switch will retain its forwarding scale profile
Clean reboot with -k option	Yes	The switch will retain its forwarding scale profile and port profile configurations, but erase all other configurations.
Enable maintenance mode	Yes	The switch will retain its forwarding scale profile
Commission the switch from maintenance mode	Yes, from Release 4.1(1) and later	For release 4.1(1) and later, the switch will reload with the original forwarding scale profile
		For releases prior to Release 4.1(1), the switch will join the switch fabric with default Dual Stack forwarding scale profile. You can then reload the switch for any previously configured forwarding scale profile to take effect

Operation	Is Forwarding Scale Profile (FSP) Preserved	Additional Details
Decommission the switch	No	The switch will erase all configuration, including the forwarding scale profile, and will show up with factory default configuration.
		The node serial number and other configurations will still be available on the APIC.
Commission a decommissioned switch	No	The switch will join the switch fabric with default Dual Stack forwarding scale profile. You can reload the switch for any previously configured forwarding scale profile to take effect.
Remove the switch from APIC	No	All configurations are erased on the switch. The switch serial number and all other details are also removed from the APIC

Switch Operations and Their Effect on Forwarding Scale Profiles



Forwarding Scale Profile Configuration

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- Configuring Forwarding Scale Profiles Using CLI, on page 10
- Configuring Forwarding Scale Profiles Using REST API, on page 12
- Verifying Forwarding Scale Profiles on the Switch, on page 13

Configuring Forwarding Scale Profiles Using GUI

The Forwarding Scale Profile policy provides different scalability options. For more information on the scalability options, see the *Forwarding Scale Profile Policy Overview* section in the chapter for your Cisco APIC release.

This section explains how to configure forwarding scale profiles using the APIC GUI.

Before you begin

- Read through and follow the Guidelines and Limitations, on page 4 section.
- Ensure you have access to the APIC GUI
- Ensure that your switches support the profile you want to configure. For the list of supported switches, see the release-specific chapter.
- Changing the scale profile for individual members of a VPC is not allowed. If members of the same VPC are associated with different leaf profiles, then a new leaf profile should be created with both members and the scale profile applied to it.
- **Step 1** To create the policy, perform the following steps:
 - a) From the top navigation menu, choose **Fabric** > **Access Policies**.
 - b) In the left navigation pane, expand **Policies** > **Switch**.
 - c) Right-click Forwarding Scale Profile and choose Create Forwarding Scale Profile Policy.
 - d) In the **Create Forwarding Scale Profile Policy** dialog, provide a **Name**, optional **Description**, and the **Type** for the policy.
 - e) Click Submit.
- **Step 2** To add the policy to a policy group to enable it to be associated with fabric nodes, perform the following steps:
 - a) From the top navigation menu, choose **Fabric** > **Access Policies**.

- b) In the left navigation pane, expand **Policies** > **Switch**.
- c) Right-click Policy Groups and choose Create Access Switch Policy Group
- d) From the **Create Access Switch Policy Group** dialog, click the **Forward Scale Profile Policy** drop-down arrow and choose the policy you previously configured.
- e) Click Submit.
- **Step 3** To associate the policy group to a node, perform the following steps:
 - a) From the top navigation menu, choose **Fabric** > **Access Policies**.
 - b) In the left navigation pane, expand **Policies** > **Switch**.
 - c) Right-click **Profiles** and choose **Create Leaf Profile**.
 - d) Enter a name for the profile in the **Name** field.
 - e) From the **Leaf Selectors** table, click the + icon to access the **Leaf Selectors** table fields.
 - f) Enter a name in the Name field.
 - g) Choose one or more switches to associate the the profile from the **Blocks** drop-down list.
 - h) Chose the policy group containing your Forwarding Scale Profile Policy from the **Policy Group** drop-down list.
 - i) Click Update.
 - i) Click Next.
 - k) Click Finish.
- **Step 4** Manually reload the switch after the forwarding scale profile policy is applied for the changes to take effect.

Configuring Forwarding Scale Profiles Using CLI

The Forwarding Scale Profile policy provides different scalability options. For more information on the scalability options, see the *Forwarding Scale Profile Policy Overview* section in the chapter for your Cisco APIC release.

This section explains how to configure forwarding scale profiles using the CLI.

Before you begin

- Read through and follow the Guidelines and Limitations, on page 4 section.
- Ensure you have access to the switch via CLI
- Ensure that your switches support the profile you want to configure. For the list of supported switches, see the release-specific section.
- Changing the scale profile for individual members of a VPC is not allowed. If members of the same VPC are associated with different leaf profiles, then a new leaf profile should be created with both members and the scale profile applied to it.
- **Step 1** Enter global configuration mode

apic1# configure

Step 2 Define the scale-profile policy

apic1(config) # scale-profile <scale-profile-name>

Step 3 Set the Forwarding Scale profile type.

You can use the **profile-type** {dual-stack | high-dual-stack | high-lpm | high-policy | ipv4 } command to set the type:

```
apic1(config-scale-profile) # profile-type ipv4
```

Step 4 Return back to global configuration.

```
apic1(config-scale-profile) # exit
```

Step 5 Define the leaf policy group.

```
apic1(config)# template leaf-policy-group <leaf-policy-group-name>
```

Step 6 Configure the relation between the scale profile policy and the leaf policy group.

```
apic1(config-leaf-policy-group)# scale-profile <scale-profile-name>
```

Note

The switches that support the forwarding scale profile policy must be manually reloaded after the forwarding scale profile policy is applied. For a list of supported switches, see the *Supported Platforms for Forwarding Scale Profile Policies* section in the chapter for your Cisco APIC release.

Step 7 Return back to global configuration.

```
apic1(config-leaf-policy-group)# exit
```

Step 8 Configure a leaf profile.

```
apic1(config)# leaf-profile <leaf-profile-name>
```

Step 9 Specify a group of leaf switches.

```
apic1(config-leaf-profile)# leaf-group <leaf-group>
```

Step 10 Add leaf switches to the leaf group.

```
apic1(config-leaf-profile)# leaf 201
```

Step 11 Specify the leaf policy group to be associated to the leaf switches

```
apic1(config-leaf-group) # leaf-policy-group <leaf-policy-group-name>
```

Step 12 Exit command mode.

```
apic1(config-leaf-policy-group)# exit
```

Step 13 (Optional) Display the current running configuration.

```
apic1(config)# show running-config
# Command: show running-config scale-profile testFwdScaleProf
# Time: Thu Jul 27 22:31:29 2017
    scale-profile testFwdScaleProf
        profile-type ipv4
        exit

apic1(config-leaf-group)# show running-config leaf-profile sampleLeafProf
# Command: show running-config leaf-profile sampleLeafProf
# Time: Tue Aug 1 11:19:58 2017
    leaf-profile sampleLeafProf
    leaf-group sampleLeafGrp
    leaf-group sampleLeafGrp
    leaf-policy-group samplePolicyGrp
    exit
```

Step 14 Manually reload the switch after the forwarding scale profile policy is applied for the changes to take effect.

This example shows how to configure the IPv4 scale profile policy.

```
apic1# configure
apic1(config)# scale-profile testFwdScaleProf
apic1(config-scale-profile)# profile-type ipv4
apic1(config-scale-profile) # exit
apic1(config) # template leaf-policy-group samplePolicyGrp
apic1(config-leaf-policy-group)# scale-profile testFwdScaleProf
apic1(config-leaf-policy-group)# exit
apic1(config) # leaf-profile sampleLeafProf
apic1(config-leaf-profile) # leaf-group sampleLeafGrp
apic1(config-leaf-profile) # leaf 201
apic1(config-leaf-group)# leaf-policy-group samplePolicyGrp
apic1(config-leaf-group)# show running-config scale-profile testFwdScaleProf
# Command: show running-config scale-profile testFwdScaleProf
# Time: Thu Jul 27 22:31:29 2017
  scale-profile testFwdScaleProf
   profile-type ipv4
    exit.
apic1(config-leaf-group) # show running-config template leaf-policy-group samplePolicyGrp
# Command: show running-config template leaf-policy-group samplePolicyGrp
# Time: Tue Aug 1 11:19:44 2017
  template leaf-policy-group samplePolicyGrp
    scale-profile testFwdScaleProf
    exit
apic1(config-leaf-group) # show running-config leaf-profile sampleLeafProf
# Command: show running-config leaf-profile sampleLeafProf
# Time: Tue Aug 1 11:19:58 2017
  leaf-profile sampleLeafProf
    leaf-group sampleLeafGrp
      leaf 201
      leaf-policy-group samplePolicyGrp
      exit
```

Configuring Forwarding Scale Profiles Using REST API

The Forwarding Scale Profile policy provides different scalability options. For more information on the scalability options, see the *Forwarding Scale Profile Policy Overview* section in the chapter for your Cisco APIC release.

This section explains how to configure forwarding scale profiles using REST API.

Before you begin

- Read through and follow the Guidelines and Limitations, on page 4 section.
- Ensure that your switches support the profile you want to configure. For the list of supported switches, see the release-specific section.
- Changing the scale profile for individual members of a VPC is not allowed. If members of the same VPC are associated with different leaf profiles, then a new leaf profile should be created with both members and the scale profile applied to it.

Step 1 To apply a forwarding scale profile policy with IPv4 scaling, send a post with XML similar to the following example:

Step 2 Manually reload the switch after the forwarding scale profile policy is applied for the changes to take effect.

Verifying Forwarding Scale Profiles on the Switch

This section provides a few commands you can use to verify the forwarding scale profile configuration on your switch.

• Displaying forwarding scale profiles supported on a switch.

```
switch# cd /mit/sys/configProfile
switch# dir
cfgent-default cfgent-high-dual-stack cfgent-high-lpm
cfgent-high-policy cfgent-ipv4 summary
```

• Displaying the current forwarding scale profile on a switch.

In the following command,

• currentProfile, indicates the forwarding scale profile that is currently running on the switch.

Note that this field is available starting with Release 4.1(1). In prior releases, you can verify the currently running scale profile only by checking the scale values in the capacity dashboard of the APIC GUI.

profType indicates the forwarding scale profile that you configured for the switch.

```
switch# moquery -c topoctrlFwdScaleProf
# topoctrl.FwdScaleProf
annotation
childAction
currentProfile : sys/configProfile/cfgent-ipv4
              : sys/topoctrl/fwdprofile
extMngdBy
              : local
              : 2019-08-21T13:03:18.185-07:00
modTs
profType
              : ipv4
rn
              : fwdprofile
status
              : 0
uid
```

• Display the policy (actrlRule) scale on the switch:

switch# moquery -c actrlRule -x rsp-subtree-include=count | grep count count : 255000



Forwarding Scale Profiles Information for Cisco APIC Release 6.0(3)

- Supported Platforms, on page 15
- Scalability, on page 25

to have 32GB of RAM

Supported Platforms

This section provides forwarding scale profiles hardware support information for release 6.0(3).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches

Scale Profile	Supported Switches
Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H
	N9K-C9358GY-FXP with 24GB of RAM
	• N9K-C9400-SW-GX2A

Scale Profile	Supported Switches
High Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93108TC-FX3P
	• N9K-C93180YC-FX3
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H
	N9K-C9358GY-FXP with 24GB of RAM
	• N9K-C9400-SW-GX2A

Scale Profile	Supported Switches
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H

High LPM	 Nexus 9300-EX series switches: N9K-C93108TC-EX N9K-C93108TC-EX-24
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM
	• N9K-C9400-SW-GX2A
	NOW COMPONE ENAM
	• N9K-C93180YC-FX3H

Scale Profile	Supported Switches
Maximum LPM	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX with 32GB of RAM
	• N9K-C93180YC-FX3 with 32GB of RAM
	N9K-C93108TC-FX3P with 32GB of RAM

Scale Profile	Supported Switches
High Policy	

Scale Profile	Supported Switches
	Full scale for this profile requires FX, FX3, GX or GX2B models with 32GB of RAM
	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9400-SW-GX2A
	• N9K-C93180YC-FX3H

Scale Profile	Supported Switches
	• N9K-C93108TC-FX3H

Scale Profile	Supported Switches
IPv4 Scale	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM
	• N9K-C9400-SW-GX2A
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H

Scale Profile	Supported Switches
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H

Scalability

The following table provides forwarding scale profiles scalability information in release 6.0(3).



Note

Except for the Maximum LPM scale profile, the LPM scale listed in the following table includes any combination of IPv4 and IPv6 prefixes. The total of (# of IPv4 prefixes) + 2*(# of IPv6 prefixes) must not exceed the listed scale.

For the Maximum LPM scale profile, the LPM scale listed defines the max values for number of IPv4 plus IPv6 prefixes.

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
	• VRFs:	• VRFs:
	• GX2A switch models: 2,000	• Switches with 32GB of RAM: 2,000
	• Other switch models: 800	• Other switches: 800

EP MAC: 64,000 EP IPv4: 64,000 EP IPv6: 24,000 LPM: 38,000 Policy: 8,000 Multicast: 512 VRFs: 800	 EP MAC: 64,000 EP IPv4: 64,000 EP IPv6: 48,000 LPM: 38,000 Policy: 128,000 Multicast: 32,000 VRFs: Switches with 32GB of
EP IPv6: 24,000 LPM: 38,000 Policy: 8,000 Multicast: 512	 EP IPv6: 48,000 LPM: 38,000 Policy: 128,000 Multicast: 32,000 VRFs:
LPM: 38,000 Policy: 8,000 Multicast: 512	LPM: 38,000Policy: 128,000Multicast: 32,000VRFs:
Policy: 8,000 Multicast: 512	Policy: 128,000Multicast: 32,000VRFs:
Multicast: 512	• Multicast: 32,000 • VRFs:
	• VRFs:
VRFs: 800	
	• Switches with 32GB of
	RAM: 2,000
	• Other switches: 800
supported.	• EP MAC: 24,000
	• EP IPv4 Local: 24,000
	• EP IPv4 Total: 280,000
	• EP IPv6: 12,000
	• LPM: 40,000
	• Policy: 64,000
	• Multicast: 8,000
	• VRFs: 800
•	supported.

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy:
	• Multicast: 8,000 • VRFs: 800	• Switches with 32GB of RAM: 32,000
	• VKFS. 8000	• Other switches: 8,000
		• Multicast: 8,000
		• VRFs:
		• Switches with 32GB of RAM: 2,000
		• Other switches: 800
Maximum LPM Note This profile is not supported on Remote Leaf (RL).	Not supported.	Note Supported only on GX and GX2B switches. • EP MAC: 8,000 • EP IPv4: 8,000 • EP IPv6: 4,000 • LPM: 440,000 IPv4 + 100,000 IPv6 • Policy: 8,000 • Multicast: 1,000 • VRFs: 250

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
High Policy	• EP MAC: 16,000	Note Except FXP switches.
	• EP IPv4: 16,000	• EP MAC: 24,000
	• EP IPv6: 8,000	• EP IPv4: 24,000
	• LPM: 8,000	• EP IPv6: 12,000
	• Policy: 100,000	• LPM: 20,000
	• Multicast: 8,000	• Policy: 256,000
	• VRFs: 800	• Multicast: 8,000
		• VRFs:
		• Switches with 32GB of RAM: 2,000
		• Other switches: 800
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
	• VRFs: 800	• VRFs: 800
Multicast Heavy	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 64,000
		• EP IPv6: 4,000
		• LPM: 20,000
		• Policy: 64,000
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000
		• VRFs: 800



Forwarding Scale Profiles Information for Cisco APIC Release 6.0(2)

- Supported Platforms, on page 29
- Scalability, on page 39

to have 32GB of RAM

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 6.0(2).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches

Scale Profile	Supported Switches	
Dual Stack	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9364D-GX2A	
	• N9K-C9348D-GX2A	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	
	• N9K-C93180YC-FX3H	
	• N9K-C93108TC-FX3H	
	• N9K-C9358GY-FXP with 24GB of RAM	
	• N9K-C9400-SW-GX2A	

Scale Profile	Supported Switches	
High Dual Stack	Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9364D-GX2A	
	• N9K-C9348D-GX2A	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93108TC-FX3P	
	• N9K-C93180YC-FX3	
	• N9K-C93180YC-FX3H	
	• N9K-C93108TC-FX3H	
	• N9K-C9358GY-FXP with 24GB of RAM	
	• N9K-C9400-SW-GX2A	

Scale Profile	Supported Switches	
High IPv4 EP Scale	• N9K-C93180YC-FX	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	
	• N9K-C93180YC-FX3H	
	• N9K-C93108TC-FX3H	

Scale Profile	Supported Switches	
High LPM	Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9364D-GX2A	
	• N9K-C9348D-GX2A	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	
	• N9K-C9358GY-FXP with 24GB of RAM	
	• N9K-C9400-SW-GX2A	
	• N9K-C93180YC-FX3H	
	• N9K-C93108TC-FX3H	

Scale Profile	Supported Switches	
Maximum LPM	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	

Scale Profile	Supported Switches
High Policy	

Note Full scale for this profile requEX3, GX or GX2B models woof RAM • Nexus 9300-EX series switches: • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX		
• N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX		
• N9K-C93108TC-EX-24 • N9K-C93180YC-EX		
• N9K-C93180YC-EX	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
NOW GOALOOMS TWO	• N9K-C93180YC-EX	
• N9K-C93180YC-EX-24	• N9K-C93180YC-EX-24	
• N9K-C93180LC-EX		
• Nexus 9300-FX2 series switches:		
• N9K-C9336C-FX2		
• N9K-C93216TC-FX2		
• N9K-C93240YC-FX2		
• N9K-C93360YC-FX2		
• N9K-C9336C-FX2-E		
• Nexus 9300-FX series switches:		
• N9K-C93108TC-FX		
• N9K-C93108TC-FX-24		
• N9K-C93180YC-FX		
• N9K-C93180YC-FX-24		
• N9K-C9364D-GX2A		
• N9K-C9348D-GX2A		
• N9K-C93600CD-GX		
• N9K-C9364C-GX		
• N9K-C9316D-GX		
• N9K-C9332D-GX2B		
• N9K-C93180YC-FX3		
• N9K-C93108TC-FX3P		
• N9K-C9400-SW-GX2A		
• N9K-C93180YC-FX3H		

Scale Profile	Supported Switches	
	• N9K-C93108TC-FX3H	

Scale Profile	Supported Switches	
IPv4 Scale	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9364D-GX2A	
	• N9K-C9348D-GX2A	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	
	• N9K-C9358GY-FXP with 24GB of RAM	
	• N9K-C9400-SW-GX2A	
	• N9K-C93180YC-FX3H	
	• N9K-C93108TC-FX3H	

Scale Profile	Supported Switches
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C93180YC-FX3H
	• N9K-C93108TC-FX3H

Scalability

The following table provides forwarding scale profiles scalability information in Release 6.0(2).



Note

Except for the Maximum LPM scale profile, the LPM scale listed in the following table includes any combination of IPv4 and IPv6 prefixes. The total of (# of IPv4 prefixes) + 2*(# of IPv6 prefixes) must not exceed the listed scale.

For the Maximum LPM scale profile, the LPM scale listed defines the max values for number of IPv4 plus IPv6 prefixes.

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
	• VRFs: 800	• VRFs: 800

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
	• VRFs: 800	• VRFs: 800
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000
		• VRFs: 800
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
	• VRFs: 800	• VRFs: 800

Scale Pro	ofile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Maximur Note	This profile is not supported on Remote Leaf (RL).	Not supported.	Note Supported only on GX and GX2B switches. • EP MAC: 8,000 • EP IPv4: 8,000 • EP IPv6: 4,000 • LPM: 440,000 IPv4 + 100,000 IPv6 • Policy: 8,000 • Multicast: 1,000 • VRFs: 250
High Pol	icy	• EP MAC: 16,000 • EP IPv4: 16,000 • EP IPv6: 8,000 • LPM: 8,000 • Policy: 100,000 • Multicast: 8,000 • VRFs: 800	Note Except FXP switches. • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 256,000 • Multicast: 8,000 • VRFs: 800
IPv4 Sca	le	• EP MAC: 48,000 • EP IPv4: 48,000 • EP IPv6: 0 • LPM: 38,000 • Policy: 64,000 • Multicast: 8,000 • VRFs: 800	 EP MAC: 48,000 EP IPv4: 48,000 EP IPv6: 0 LPM: 38,000 Policy: 64,000 Multicast: 8,000 VRFs: 800

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Multicast Heavy	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 64,000
		• EP IPv6: 4,000
		• LPM: 20,000
		• Policy: 64,000
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000
		• VRFs: 800



Forwarding Scale Profiles Information for Cisco APIC Release 6.0(1)

- Supported Platforms, on page 43
- Scalability, on page 50

to have 32GB of RAM

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 6.0(1).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches

Scale Profile	Supported Switches
Dual Stack	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High LPM	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches	
High Policy	Full scale for this profile requires FX, FX3, GX or GX2B models with 32GB of RAM	
	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9364D-GX2A	
	• N9K-C9348D-GX2A	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	

Scale Profile	Supported Switches
IPv4 Scale	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scalability

The following table provides forwarding scale profiles scalability information in Release 6.0(1).



Note

The LPM scale listed in the following table includes any combination of IPv4 and IPv6 prefixes. The total of (# of IPv4 prefixes) + 2*(# of IPv6 prefixes) must not exceed the listed scale.

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
High Policy	• EP MAC: 16,000	Note Except FXP switches.
	• EP IPv4: 16,000	• EP MAC: 24,000
	• EP IPv6: 8,000	• EP IPv4: 24,000
	• LPM: 8,000	• EP IPv6: 12,000
	• Policy: 100,000	• LPM: 20,000
	• Multicast: 8,000	• Policy: 256,000
		• Multicast: 8,000
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Multicast Heavy	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 64,000
		• EP IPv6: 4,000
		• LPM: 20,000
		• Policy: 64,000
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000



Forwarding Scale Profiles Information for Cisco APIC Release 5.2(5)

- Supported Platforms, on page 53
- Scalability, on page 60

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.2(5).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release.

Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches to have 32GB of RAM

Scale Profile	Supported Switches
Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High LPM	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High Policy	Note Full scale for this profile requires FX, FX3, GX or GX2B models with 32GB of RAM.
	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
IPv4 Scale	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9364D-GX2A
	• N9K-C9348D-GX2A
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scalability

The following table provides forwarding scale profiles scalability information in Release 5.2(5).



Note

The LPM scale listed in the following table includes any combination of IPv4 and IPv6 prefixes. The total of (# of IPv4 prefixes) + 2*(# of IPv6 prefixes) must not exceed the listed scale.

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
High Policy	• EP MAC: 16,000	Note Except FXP switches.
	• EP IPv4: 16,000	• EP MAC: 24,000
	• EP IPv6: 8,000	• EP IPv4: 24,000
	• LPM: 8,000	• EP IPv6: 12,000
	• Policy: 100,000	• LPM: 20,000
	• Multicast: 8,000	• Policy: 256,000
		• Multicast: 8,000
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Multicast Heavy	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 64,000
		• EP IPv6: 4,000
		• LPM: 20,000
		• Policy: 64,000
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000



Forwarding Scale Profiles Information for Cisco APIC Release 5.2(4)

- Supported Platforms, on page 63
- Scalability, on page 70

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.2(4).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches to have 32GB of RAM

Scale Profile	Supported Switches
Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High Dual Stack	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High LPM	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches	
High Policy	Note Full scale for this profile requires FX, FX3, GX models with 32GB of RAM.	
	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• N9K-C9336C-FX2-E	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C9316D-GX	
	• N9K-C9332D-GX2B	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	

Scale Profile	Supported Switches
IPv4 Scale	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• N9K-C9336C-FX2-E
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
	• N9K-C9358GY-FXP with 24GB of RAM

Scale Profile	Supported Switches
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9316D-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

The following table provides forwarding scale profiles scalability information in Release 5.2(4).



Note

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
High Policy	• EP MAC: 16,000	Note Except FXP switches.
	• EP IPv4: 16,000	• EP MAC: 24,000
	• EP IPv6: 8,000	• EP IPv4: 24,000
	• LPM: 8,000	• EP IPv6: 12,000
	• Policy: 100,000	• LPM: 20,000
	• Multicast: 8,000	• Policy: 256,000
		• Multicast: 8,000
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches
Multicast Heavy	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 64,000
		• EP IPv6: 4,000
		• LPM: 20,000
		• Policy: 64,000
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000



Forwarding Scale Profiles Information for Cisco APIC Release 5.2(3)

- Supported Platforms, on page 73
- Scalability, on page 79

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.2(3).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches to have 32GB of RAM

Scale Profile	Supported Switches
Dual Stack	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High Dual Stack	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High LPM	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
High Policy	Note Full scale for this profile requires FX, FX3, GX models with 32GB of RAM.
	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches
IPv4 Scale	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C9332D-GX2B
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

The following table provides forwarding scale profiles scalability information in Release 5.2(3).



Note

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches		
High LPM	• EP MAC: 24,000	• EP MAC: 24,000		
	• EP IPv4: 24,000	• EP IPv4: 24,000		
	• EP IPv6: 12,000	• EP IPv6: 12,000		
	• LPM: 128,000	• LPM: 128,000		
	• Policy: 8,000	• Policy: 8,000		
	• Multicast: 8,000	• Multicast: 8,000		
High Policy	• EP MAC: 16,000	Note Except FXP switches.		
	• EP IPv4: 16,000	• EP MAC: 24,000		
	• EP IPv6: 8,000	• EP IPv4: 24,000		
	• LPM: 8,000	• EP IPv6: 12,000		
	• Policy: 100,000	• LPM: 20,000		
	• Multicast: 8,000	• Policy: 256,000		
		• Multicast: 8,000		
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000		
	• EP IPv4: 48,000	• EP IPv4: 48,000		
	• EP IPv6: 0	• EP IPv6: 0		
	• LPM: 38,000	• LPM: 38,000		
	• Policy: 64,000	• Policy: 64,000		
	• Multicast: 8,000	• Multicast: 8,000		
Multicast Heavy	Not supported.	• EP MAC: 24,000		
		• EP IPv4 Local: 24,000		
		• EP IPv4 Total: 64,000		
		• EP IPv6: 4,000		
		• LPM: 20,000		
		• Policy: 64,000		
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000		



Forwarding Scale Profiles Information for Cisco APIC Release 5.2(1)

- Supported Platforms, on page 81
- Scalability, on page 87

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.2(1).



Note

Switches that are not listed in the following table do not support forwarding scale profiles in this release. Full scale support for High Policy, Multicast Heavy, and High IPv4 EP scale profiles requires the switches to have 32GB of RAM

Scale Profile	Supported Switches	
Dual Stack	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	

Scale Profile	Supported Switches
High Dual Stack	• Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
High IPv4 EP Scale	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

Scale Profile	Supported Switches	
High LPM	Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C9348GC-FXP	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	

Scale Profile	Supported Switches	
High Policy	Note Full scale for this profile requires FX, FX3, GX models with 32GB of RAM.	
	• Nexus 9300-EX series switches:	
	• N9K-C93108TC-EX	
	• N9K-C93108TC-EX-24	
	• N9K-C93180YC-EX	
	• N9K-C93180YC-EX-24	
	• N9K-C93180LC-EX	
	• Nexus 9300-FX2 series switches:	
	• N9K-C9336C-FX2	
	• N9K-C93216TC-FX2	
	• N9K-C93240YC-FX2	
	• N9K-C93360YC-FX2	
	• Nexus 9300-FX series switches:	
	• N9K-C93108TC-FX	
	• N9K-C93108TC-FX-24	
	• N9K-C93180YC-FX	
	• N9K-C93180YC-FX-24	
	• N9K-C93600CD-GX	
	• N9K-C9364C-GX	
	• N9K-C93180YC-FX3	
	• N9K-C93108TC-FX3P	

Scale Profile	Supported Switches
IPv4 Scale	Nexus 9300-EX series switches:
	• N9K-C93108TC-EX
	• N9K-C93108TC-EX-24
	• N9K-C93180YC-EX
	• N9K-C93180YC-EX-24
	• N9K-C93180LC-EX
	• Nexus 9300-FX2 series switches:
	• N9K-C9336C-FX2
	• N9K-C93216TC-FX2
	• N9K-C93240YC-FX2
	• N9K-C93360YC-FX2
	• Nexus 9300-FX series switches:
	• N9K-C93108TC-FX
	• N9K-C93108TC-FX-24
	• N9K-C93180YC-FX
	• N9K-C93180YC-FX-24
	• N9K-C9348GC-FXP
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P
Multicast Heavy	• N9K-C93180YC-FX
	• N9K-C93600CD-GX
	• N9K-C9364C-GX
	• N9K-C93180YC-FX3
	• N9K-C93108TC-FX3P

The following table provides forwarding scale profiles scalability information in Release 5.2(1).



Note

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, and GX Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
High IPv4 EP Scale	Not supported.	• EP MAC: 24,000
		• EP IPv4 Local: 24,000
		• EP IPv4 Total: 280,000
		• EP IPv6: 12,000
		• LPM: 40,000
		• Policy: 64,000
		• Multicast: 8,000

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, and GX Switches	
High LPM	• EP MAC: 24,000	• EP MAC: 24,000	
	• EP IPv4: 24,000	• EP IPv4: 24,000	
	• EP IPv6: 12,000	• EP IPv6: 12,000	
	• LPM: 128,000	• LPM: 128,000	
	• Policy: 8,000	• Policy: 8,000	
	• Multicast: 8,000	• Multicast: 8,000	
High Policy	• EP MAC: 16,000	Note Except FXP switches.	
	• EP IPv4: 16,000	• EP MAC: 24,000	
	• EP IPv6: 8,000	• EP IPv4: 24,000	
	• LPM: 8,000	• EP IPv6: 12,000	
	• Policy: 100,000	• LPM: 20,000	
	• Multicast: 8,000	• Policy: 256,000	
		• Multicast: 8,000	
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000	
	• EP IPv4: 48,000	• EP IPv4: 48,000	
	• EP IPv6: 0	• EP IPv6: 0	
	• LPM: 38,000	• LPM: 38,000	
	• Policy: 64,000	• Policy: 64,000	
	• Multicast: 8,000	• Multicast: 8,000	
Multicast Heavy	Not supported.	• EP MAC: 24,000	
		• EP IPv4 Local: 24,000	
		• EP IPv4 Total: 64,000	
		• EP IPv6: 4,000	
		• LPM: 20,000	
		• Policy: 64,000	
		• Multicast: 90,000 with (S,G) scale not exceeding 72,000	



Forwarding Scale Profiles Information for Cisco APIC Release 5.1(3)

- Supported Platforms, on page 89
- Scalability, on page 91

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.1(3).

The following table summarizes platform support for each forwarding scale profile.

Table 2: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	X and FX2 Switches Supported on FX, FX3, and GX Switches		
High Policy	Yes	Yes, except on FXP switches, C93180YC-FX3, and C93108TC-FX3P.		
		Requires 32GB of RAM.		
		Different scale numbers than EX/FX2.		
Dual Stack	Yes	Yes		
High Dual Stack	Yes	Yes		
		Different scale numbers than EX/FX2.		
High LPM	Yes	Yes		
IPv4 Scale	Yes	Yes		

Scale Profile	Supported on EX and FX2 Switches	Supported on FX, FX3, and GX Switches
High IPv4 EP Scale	No	Only on N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C93180YC-FX3 switches with 32GB RAM.
Multicast Heavy	No	Only on N9K-C93180YC-FX,N9K-C93180YC-FX3, N9K-C93108TC-FX3P, and N9K-C93600CD-GX switches with 32GB RAM.

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches
 - Cisco Nexus C93180YC-FX3 switch
 - Cisco Nexus C93108TC-FX3P switch
 - Cisco Nexus 93600CD-GX switch
 - Cisco Nexus 9364C-GX switch
- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
 - Cisco Nexus 9364C-GX with 32 GB of RAM
 - Cisco Nexus 93180YC-EX
 - Cisco Nexus C9336C-FX2
 - Cisco Nexus C93360YC-FX2
- The **High IPv4 EP** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus C93180YC-FX3 with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
- The **Multicast Heavy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus C93180YC-FX3 with 32 GB of RAM
 - Cisco Nexus C93108TC-FX3P with 32 GB of RAM

- Cisco Nexus 93600CD-GX with 32 GB of RAM
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 5.1(3).



Note

Scale Profile	Scale fo	Scale for EX and FX2 Switches		Scale for FX, FX3, and GX Switches	
High Policy	• EP • EP • LP! • Pol	High Policy profile is supported only on the N9K-C9336C-FX2, N9K-C93360YC-FX2 and N9K-C93180YC-EX switches. MAC: 16,000 IPv4: 16,000 IPv6: 8,000 M: 8,000 icy: 100,000 Iticast: 8,000	• EP I • EP I • LPM • Poli	High Policy profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C9364C-GX switches with 32GB of RAM. MAC: 24,000 (Pv4: 24,000 (Pv6: 12,000 M: 20,000 cy: 256,000 ticast: 8,000	
Dual Stack	• EP • EP • LP! • Pol	MAC: 24,000 IPv4: 24,000 IPv6: 12,000 M: 20,000 icy: 64,000 Iticast: 8,000	• EP I • EP I • LPM • Poli	MAC: 24,000 Pv4: 24,000 Pv6: 12,000 M: 20,000 cy: 64,000 ticast: 8,000	

Scale Profile	Scale for EX and FX2 Switches	Scale for FX, FX3, and GX Switches	
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000	
	• EP IPv4: 64,000	• EP IPv4: 64,000	
	• EP IPv6: 24,000	• EP IPv6: 48,000	
	• LPM: 38,000	• LPM: 38,000	
	• Policy: 8,000	• Policy: 128,000	
	• Multicast: 512	• Multicast: 32,000	
High LPM	• EP MAC: 24,000	• EP MAC: 24,000	
	• EP IPv4: 24,000	• EP IPv4: 24,000	
	• EP IPv6: 12,000	• EP IPv6: 12,000	
	• LPM: 128,000	• LPM: 128,000	
	• Policy: 8,000	• Policy: 8,000	
	• Multicast: 8,000	• Multicast: 8,000	
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000	
	• EP IPv4: 48,000	• EP IPv4: 48,000	
	• EP IPv6: 0	• EP IPv6: 0	
	• LPM: 38,000	• LPM: 38,000	
	• Policy: 64,000	• Policy: 64,000	
	• Multicast: 8,000	• Multicast: 8,000	

Scale Profile	Scale for EX and FX2 Switches	Scale for FX, FX3, and GX Switches		
High IPv4 EP Scale	Not supported.	Note High IPv4 EP Scale profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C93180YC-FX3 switches with 32GB of RAM. • EP MAC: 24,000 • EP IPv4 Local: 24,000 • EP IPv6: 12,000 • LPM: 40,000 • Policy: 64,000 • Multicast: 8,000		
Multicast Heavy	Not supported.	Note Multicast Heavy profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, N9K-C93180YC-FX3 and N9K-C93108TC-FX3F switches with 32GB of RAM. • EP MAC: 24,000 • EP IPv4 Local: 24,000 • EP IPv4 Total: 64,000 • EP IPv6: 4,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 90,000 with (S,G) scale not exceeding 72,000		



Forwarding Scale Profiles Information for Cisco APIC Release 5.1(1)

- Supported Platforms, on page 95
- Scalability, on page 96

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.1(1).

The following table summarizes platform support for each forwarding scale profile.

Table 3: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	nes Supported on FX and GX Switches	
High Policy	Yes	Yes, except on FXP switches.	
		Requires 32GB of RAM.	
		Different scale numbers than EX/FX2.	
Dual Stack	Yes	Yes	
High Dual Stack	Yes	Yes	
		Different scale numbers than EX/FX2.	
High LPM	Yes	Yes	
IPv4 Scale	Yes	Yes	
High IPv4 EP Scale	No	Only on N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB RAM.	
Multicast Heavy	No	Only on N9K-C93180YC-FX and N9K-C93600CD-GX switches wit 32GB RAM.	

- Forwarding scale profiles are supported on the following specific switch models switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches
 - · Cisco Nexus 93600CD-GX switch
 - Cisco Nexus 9364C-GX switch
- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
 - Cisco Nexus 9364C-GX with 32 GB of RAM
 - Cisco Nexus 93180YC-EX
 - Cisco Nexus C9336C-FX2
 - Cisco Nexus C93360YC-FX2
- The **High IPv4 EP** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
- The **Multicast Heavy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 5.1(1).



Note

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches	
High Policy	Note High Policy profile is supported only on the N9K-C9336C-FX2, N9K-C93360YC-FX2 and N9K-C93180YC-EX switches. • EP MAC: 16,000 • EP IPv4: 16,000 • EP IPv6: 8,000 • LPM: 8,000 • Policy: 100,000 • Multicast: 8,000	Note High Policy profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C9364C-GX switches with 32GB of RAM. • EP MAC: 24,000 • EP IPv4: 24,000 • LPM: 20,000 • Policy: 256,000 • Multicast: 8,000	
Dual Stack	• EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 8,000	• EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 8,000	
High Dual Stack	• EP MAC: 64,000 • EP IPv4: 64,000 • EP IPv6: 24,000 • LPM: 38,000 • Policy: 8,000 • Multicast: 512	 EP MAC: 64,000 EP IPv4: 64,000 EP IPv6: 48,000 LPM: 38,000 Policy: 128,000 Multicast: 32,000 	
High LPM	• EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 128,000 • Policy: 8,000 • Multicast: 8,000	• EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 128,000 • Policy: 8,000 • Multicast: 8,000	

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches	
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000	
	• EP IPv4: 48,000	• EP IPv4: 48,000	
	• EP IPv6: 0	• EP IPv6: 0	
	• LPM: 38,000	• LPM: 38,000	
	• Policy: 64,000	• Policy: 64,000	
	• Multicast: 8,000	• Multicast: 8,000	
High IPv4 EP Scale	Not supported.	Note High IPv4 EP Scale profile is supported only on the N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB of RAM. • EP MAC: 24,000 • EP IPv4 Local: 24,000 • EP IPv4 Total: 280,000 • EP IPv6: 12,000 • LPM: 40,000 • Policy: 64,000 • Multicast: 8,000	

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches		
Multicast Heavy	Not supported.	• EP I • EP I • EP I • EP I • LPM • Polid • Mul	Multicast Heavy profile is supported only on the N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB of RAM. MAC: 24,000 Pv4 Local: 24,000 Pv4 Total: 64,000 Pv6: 4,000 d: 20,000 cy: 64,000 ticast: 90,000 with (S,G) e not exceeding 72,000	



Forwarding Scale Profiles Information for Cisco APIC Release 5.0(1)

- Supported Platforms, on page 101
- Scalability, on page 102

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 5.0(1).

The following table summarizes platform support for each forwarding scale profile.

Table 4: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	Supported on FX and GX Switche	
High Policy	Yes	Yes, except on FXP switches.	
		Requires 32GB of RAM.	
		Different scale numbers than EX/FX2.	
Dual Stack	Yes	Yes	
High Dual Stack	Yes	Yes Different scale numbers than EX/FX2.	
High LPM	Yes	Yes	
IPv4 Scale	Yes	Yes	

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches

- Cisco Nexus 93600CD-GX switch
- Cisco Nexus 9364C-GX switch
- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
 - Cisco Nexus 9364C-GX with 32 GB of RAM
 - Cisco Nexus 93180YC-EX
 - Cisco Nexus C9336C-FX2
 - Cisco Nexus C93360YC-FX2
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 5.0(1).



Note

Scale Profile	Scale for EX and FX2 Switches		Scale for FX and GX Switches	
High Policy	• EP • EP • LP! • Pol	High Policy profile is supported only on the N9K-C9336C-FX2, N9K-C93360YC-FX2 and N9K-C93180YC-EX switches. MAC: 16,000 IPv4: 16,000 IPv6: 8,000 M: 8,000 icy: 100,000 lticast: 8,000	suppo N9K- N9K- and N9K-	4,000 000 000 000

Scale for EX and FX2 Switches	Scale for FX and GX Switches
• EP MAC: 24,000	• EP MAC: 24,000
• EP IPv4: 24,000	• EP IPv4: 24,000
• EP IPv6: 12,000	• EP IPv6: 12,000
• LPM: 20,000	• LPM: 20,000
• Policy: 64,000	• Policy: 64,000
• Multicast: 8,000	• Multicast: 8,000
• EP MAC: 64,000	• EP MAC: 64,000
• EP IPv4: 64,000	• EP IPv4: 64,000
• EP IPv6: 24,000	• EP IPv6: 48,000
• LPM: 38,000	• LPM: 38,000
• Policy: 8,000	• Policy: 128,000
• Multicast: 512	• Multicast: 32,000
• EP MAC: 24,000	• EP MAC: 24,000
• EP IPv4: 24,000	• EP IPv4: 24,000
• EP IPv6: 12,000	• EP IPv6: 12,000
• LPM: 128,000	• LPM: 128,000
• Policy: 8,000	• Policy: 8,000
• Multicast: 8,000	• Multicast: 8,000
• EP MAC: 48,000	• EP MAC: 48,000
• EP IPv4: 48,000	• EP IPv4: 48,000
• EP IPv6: 0	• EP IPv6: 0
• LPM: 38,000	• LPM: 38,000
• Policy: 64,000	• Policy: 64,000
• Multicast: 8,000	• Multicast: 8,000
	• EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 8,000 • EP MAC: 64,000 • EP IPv4: 64,000 • EP IPv6: 24,000 • LPM: 38,000 • Policy: 8,000 • Multicast: 512 • EP MAC: 24,000 • EP IPv6: 12,000 • EP IPv6: 12,000 • LPM: 128,000 • Policy: 8,000 • Multicast: 8,000 • Policy: 8,000 • Multicast: 8,000 • Policy: 8,000 • Multicast: 8,000 • EP IPv6: 0 • LPM: 38,000 • Policy: 64,000



Forwarding Scale Profiles Information for Cisco APIC Release 4.2(3)

- Supported Platforms, on page 105
- Scalability, on page 106

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 4.2(31) and later releases. Scale information for Release 4.2(3j) is the same as Forwarding Scale Profiles Information for Cisco APIC Release 4.2(2).

The following table summarizes platform support for each forwarding scale profile.

Table 5: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	Supported on FX and GX Switches
High Policy	No	Only supported on 93180YC-FX, 93600CD-GX, and 9364C-GX with 32 GB of RAM.
Dual Stack	Yes	Yes
High Dual Stack	Yes	Yes Different scale numbers than EX/FX2.
High LPM	Yes	Yes
IPv4 Scale	Yes	Yes

The forwarding scale profile policy is only supported on the following switches:



Note

Support for Cisco Nexus N9K-C9364C-GX switches was added in Release 4.2(31). This switch is not supported in the earlier 4.2(3) releases.

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches
 - Cisco Nexus 93600CD-GX switch
 - Cisco Nexus 9364C-GX switch
- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
 - Cisco Nexus 9364C-GX with 32 GB of RAM
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 4.2(31) and later releases. Scalability information for Release 4.2(3j) is the same as Forwarding Scale Profiles Information for Cisco APIC Release 4.2(2).



Note

Support for Cisco Nexus N9K-C9364C-GX switches was added in Release 4.2(31). This switch is not supported in the earlier 4.2(3) releases.



Note

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
High Policy	Not supported	Note High Policy profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C9364C-GX switches with 32GB of RAM.
		• EP MAC: 24,000
		• EP IPv4: 24,000
		• EP IPv6: 12,000
		• LPM: 20,000
		• Policy: 256,000
		• Multicast: 8,000
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000



Forwarding Scale Profiles Information for Cisco APIC Release 4.2(2)

- Supported Platforms, on page 109
- Scalability, on page 110

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 4.2(2).

The following table summarizes platform support for each forwarding scale profile.

Table 6: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	Supported on FX and GX Switches
High Policy	No	Only supported on 93180YC-FX and 93600CD-GX with 32 GB of RAM.
Dual Stack	Yes	Yes
High Dual Stack	Yes	Yes Different scale numbers than EX/FX2.
High LPM	Yes	Yes
IPv4 Scale	Yes	Yes

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - · Cisco Nexus 9300-FX2 series switches
 - Cisco Nexus 93600CD-GX switch

- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM
 - Cisco Nexus 93600CD-GX with 32 GB of RAM
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 4.2(2).



Note

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
High Policy	Not supported	Note High Policy profile is supported only on the N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB of RAM. • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 256,000 • Multicast: 8,000
Dual Stack	• EP MAC: 24,000 • EP IPv4: 24,000	• EP MAC: 24,000 • EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000



Forwarding Scale Profiles Information for Cisco APIC Release 4.2(1)

- Supported Platforms, on page 113
- Scalability, on page 114

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 4.2(1).

The following table summarizes platform support for each forwarding scale profile.

Table 7: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	Supported on FX Switches
High Policy	No	Only supported on 93180YC-FX with 32 GB of RAM.
Dual Stack	Yes	Yes
High Dual Stack	Yes	Yes Different scale numbers than EX/FX2.
High LPM	Yes	Yes
IPv4 Scale	Yes	Yes

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches
- The **High Policy** profile is supported only on the following switches:
 - Cisco Nexus 93180YC-FX with 32 GB of RAM

• Switches not listed here do not support forwarding scale profiles in this release.

Scalability

The following table provides forwarding scale profiles scalability information in Release 4.2(1).



Note

Scale Profile	Scale for EX and FX2 Switches	Scale for FX Switches
High Policy	Not supported	Note High Policy profile is supported only on the N9K-C93180YC-FX switches with 32GB of RAM.
		• EP MAC: 24,000
		• EP IPv4: 24,000
		• EP IPv6: 12,000
		• LPM: 20,000
		• Policy: 256,000
		• Multicast: 8,000
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000

Scale Profile	Scale for EX and FX2 Switches	Scale for FX Switches
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000



Forwarding Scale Profiles Information for Cisco APIC Release 4.1(1)

- Supported Platforms, on page 117
- Scalability, on page 118

Supported Platforms

This section provides forwarding scale profiles hardware support information for Release 4.1(1).

The following table summarizes platform support for each forwarding scale profile.

Table 8: Supported Switches

Scale Profile	Supported on EX and FX2 Switches	Supported on FX Switches
Dual Stack	Yes	Yes
High Dual Stack	Yes	Yes Different scale numbers than EX/FX2.
High LPM	Yes	Yes
IPv4 Scale	Yes	Yes

- Forwarding scale profiles are supported on the following switches:
 - Cisco Nexus 9300-EX series switches
 - Cisco Nexus 9300-FX series switches
 - Cisco Nexus 9300-FX2 series switches
- Switches not listed here do not support forwarding scale profiles in this release.

The following table provides forwarding scale profiles scalability information in Release 4.1(1).



Note

Scale Profile	Scale for EX and FX2 Switches	Scale for FX Switches
Dual Stack	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 20,000	• LPM: 20,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000
High Dual Stack	• EP MAC: 64,000	• EP MAC: 64,000
	• EP IPv4: 64,000	• EP IPv4: 64,000
	• EP IPv6: 24,000	• EP IPv6: 48,000
	• LPM: 38,000	• LPM: 38,000
	• Policy: 8,000	• Policy: 128,000
	• Multicast: 512	• Multicast: 32,000
High LPM	• EP MAC: 24,000	• EP MAC: 24,000
	• EP IPv4: 24,000	• EP IPv4: 24,000
	• EP IPv6: 12,000	• EP IPv6: 12,000
	• LPM: 128,000	• LPM: 128,000
	• Policy: 8,000	• Policy: 8,000
	• Multicast: 8,000	• Multicast: 8,000

Scale Profile	Scale for EX and FX2 Switches	Scale for FX Switches
IPv4 Scale	• EP MAC: 48,000	• EP MAC: 48,000
	• EP IPv4: 48,000	• EP IPv4: 48,000
	• EP IPv6: 0	• EP IPv6: 0
	• LPM: 38,000	• LPM: 38,000
	• Policy: 64,000	• Policy: 64,000
	• Multicast: 8,000	• Multicast: 8,000