



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

- [Supported Platforms, on page 1](#)
- [Scalability, on page 2](#)

## 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 1: Supported Switches**

Scale Profile	Supported on EX and FX2 Switches	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 with 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.

## Scalability

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




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**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.

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Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
High Policy	<p><b>Note</b> High Policy profile is supported only on the N9K-C9336C-FX2, N9K-C93360YC-FX2 and N9K-C93180YC-EX switches.</p> <ul style="list-style-type: none"> <li>• EP MAC: 16,000</li> <li>• EP IPv4: 16,000</li> <li>• EP IPv6: 8,000</li> <li>• LPM: 8,000</li> <li>• Policy: 100,000</li> <li>• Multicast: 8,000</li> </ul>	<p><b>Note</b> High Policy profile is supported only on the N9K-C93180YC-FX, N9K-C93600CD-GX, and N9K-C9364C-GX switches with 32GB of RAM.</p> <ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4: 24,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 20,000</li> <li>• Policy: 256,000</li> <li>• Multicast: 8,000</li> </ul>
Dual Stack	<ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4: 24,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 20,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 8,000</li> </ul>	<ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4: 24,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 20,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 8,000</li> </ul>
High Dual Stack	<ul style="list-style-type: none"> <li>• EP MAC: 64,000</li> <li>• EP IPv4: 64,000</li> <li>• EP IPv6: 24,000</li> <li>• LPM: 38,000</li> <li>• Policy: 8,000</li> <li>• Multicast: 512</li> </ul>	<ul style="list-style-type: none"> <li>• EP MAC: 64,000</li> <li>• EP IPv4: 64,000</li> <li>• EP IPv6: 48,000</li> <li>• LPM: 38,000</li> <li>• Policy: 128,000</li> <li>• Multicast: 32,000</li> </ul>
High LPM	<ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4: 24,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 128,000</li> <li>• Policy: 8,000</li> <li>• Multicast: 8,000</li> </ul>	<ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4: 24,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 128,000</li> <li>• Policy: 8,000</li> <li>• Multicast: 8,000</li> </ul>

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
IPv4 Scale	<ul style="list-style-type: none"> <li>• EP MAC: 48,000</li> <li>• EP IPv4: 48,000</li> <li>• EP IPv6: 0</li> <li>• LPM: 38,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 8,000</li> </ul>	<ul style="list-style-type: none"> <li>• EP MAC: 48,000</li> <li>• EP IPv4: 48,000</li> <li>• EP IPv6: 0</li> <li>• LPM: 38,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 8,000</li> </ul>
High IPv4 EP Scale	Not supported.	<p><b>Note</b> High IPv4 EP Scale profile is supported only on the N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB of RAM.</p> <ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4 Local: 24,000</li> <li>• EP IPv4 Total: 280,000</li> <li>• EP IPv6: 12,000</li> <li>• LPM: 40,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 8,000</li> </ul>

Scale Profile	Scale for EX and FX2 Switches	Scale for FX and GX Switches
Multicast Heavy	Not supported.	<p><b>Note</b> Multicast Heavy profile is supported only on the N9K-C93180YC-FX and N9K-C93600CD-GX switches with 32GB of RAM.</p> <ul style="list-style-type: none"> <li>• EP MAC: 24,000</li> <li>• EP IPv4 Local: 24,000</li> <li>• EP IPv4 Total: 64,000</li> <li>• EP IPv6: 4,000</li> <li>• LPM: 20,000</li> <li>• Policy: 64,000</li> <li>• Multicast: 90,000 with (S,G) scale not exceeding 72,000</li> </ul>

