



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

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## Supported Platforms

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



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**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

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Scale Profile	Supported Switches
Dual Stack	<ul style="list-style-type: none"> <li>• Nexus 9300-EX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-EX</li> <li>• N9K-C93108TC-EX-24</li> <li>• N9K-C93180YC-EX</li> <li>• N9K-C93180YC-EX-24</li> <li>• N9K-C93180LC-EX</li> </ul> </li> <li>• Nexus 9300-FX2 series switches:               <ul style="list-style-type: none"> <li>• N9K-C9336C-FX2</li> <li>• N9K-C93216TC-FX2</li> <li>• N9K-C93240YC-FX2</li> <li>• N9K-C93360YC-FX2</li> <li>• N9K-C9336C-FX2-E</li> </ul> </li> <li>• Nexus 9300-FX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-FX</li> <li>• N9K-C93108TC-FX-24</li> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93180YC-FX-24</li> </ul> </li> <li>• N9K-C9364D-GX2A</li> <li>• N9K-C9348D-GX2A</li> <li>• N9K-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C93180YC-FX3H</li> <li>• N9K-C93108TC-FX3H</li> <li>• N9K-C9358GY-FXP with 24GB of RAM</li> <li>• N9K-C9400-SW-GX2A</li> </ul>

Scale Profile	Supported Switches
High Dual Stack	<ul style="list-style-type: none"> <li>• Nexus 9300-EX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-EX</li> <li>• N9K-C93108TC-EX-24</li> <li>• N9K-C93180YC-EX</li> <li>• N9K-C93180YC-EX-24</li> <li>• N9K-C93180LC-EX</li> </ul> </li> <li>• Nexus 9300-FX2 series switches:               <ul style="list-style-type: none"> <li>• N9K-C9336C-FX2</li> <li>• N9K-C93216TC-FX2</li> <li>• N9K-C93240YC-FX2</li> <li>• N9K-C93360YC-FX2</li> <li>• N9K-C9336C-FX2-E</li> </ul> </li> <li>• Nexus 9300-FX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-FX</li> <li>• N9K-C93108TC-FX-24</li> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93180YC-FX-24</li> </ul> </li> <li>• N9K-C9364D-GX2A</li> <li>• N9K-C9348D-GX2A</li> <li>• N9K-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93180YC-FX3H</li> <li>• N9K-C93108TC-FX3H</li> <li>• N9K-C9358GY-FXP with 24GB of RAM</li> <li>• N9K-C9400-SW-GX2A</li> </ul>

Scale Profile	Supported Switches
High IPv4 EP Scale	<ul style="list-style-type: none"><li>• N9K-C93180YC-FX</li><li>• N9K-C93600CD-GX</li><li>• N9K-C9364C-GX</li><li>• N9K-C9316D-GX</li><li>• N9K-C9332D-GX2B</li><li>• N9K-C93180YC-FX3</li><li>• N9K-C93108TC-FX3P</li><li>• N9K-C93180YC-FX3H</li><li>• N9K-C93108TC-FX3H</li></ul>

Scale Profile	Supported Switches
High LPM	<ul style="list-style-type: none"> <li>• Nexus 9300-EX series switches: <ul style="list-style-type: none"> <li>• N9K-C93108TC-EX</li> <li>• N9K-C93108TC-EX-24</li> <li>• N9K-C93180YC-EX</li> <li>• N9K-C93180YC-EX-24</li> <li>• N9K-C93180LC-EX</li> </ul> </li> <li>• Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> <li>• N9K-C9336C-FX2</li> <li>• N9K-C93216TC-FX2</li> <li>• N9K-C93240YC-FX2</li> <li>• N9K-C93360YC-FX2</li> <li>• N9K-C9336C-FX2-E</li> </ul> </li> <li>• Nexus 9300-FX series switches: <ul style="list-style-type: none"> <li>• N9K-C93108TC-FX</li> <li>• N9K-C93108TC-FX-24</li> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93180YC-FX-24</li> </ul> </li> <li>• N9K-C9364D-GX2A</li> <li>• N9K-C9348D-GX2A</li> <li>• N9K-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C9358GY-FXP with 24GB of RAM</li> <li>• N9K-C9400-SW-GX2A</li> <li>• N9K-C93180YC-FX3H</li> <li>• N9K-C93108TC-FX3H</li> </ul>

Scale Profile	Supported Switches
Maximum LPM	<ul style="list-style-type: none"><li>• N9K-C93600CD-GX</li><li>• N9K-C9364C-GX</li><li>• N9K-C9316D-GX</li><li>• N9K-C9332D-GX2B</li></ul>

Scale Profile	Supported Switches
High Policy	

Scale Profile	Supported Switches
	<p><b>Note</b> Full scale for this profile requires FX, FX3, GX or GX2B models with 32GB of RAM</p> <ul style="list-style-type: none"> <li>• Nexus 9300-EX series switches: <ul style="list-style-type: none"> <li>• N9K-C93108TC-EX</li> <li>• N9K-C93108TC-EX-24</li> <li>• N9K-C93180YC-EX</li> <li>• N9K-C93180YC-EX-24</li> <li>• N9K-C93180LC-EX</li> </ul> </li> <li>• Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> <li>• N9K-C9336C-FX2</li> <li>• N9K-C93216TC-FX2</li> <li>• N9K-C93240YC-FX2</li> <li>• N9K-C93360YC-FX2</li> <li>• N9K-C9336C-FX2-E</li> </ul> </li> <li>• Nexus 9300-FX series switches: <ul style="list-style-type: none"> <li>• N9K-C93108TC-FX</li> <li>• N9K-C93108TC-FX-24</li> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93180YC-FX-24</li> </ul> </li> <li>• N9K-C9364D-GX2A</li> <li>• N9K-C9348D-GX2A</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C9400-SW-GX2A</li> <li>• N9K-C93180YC-FX3H</li> </ul>



Scale Profile	Supported Switches
	• N9K-C93108TC-FX3H

Scale Profile	Supported Switches
IPv4 Scale	<ul style="list-style-type: none"> <li>• Nexus 9300-EX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-EX</li> <li>• N9K-C93108TC-EX-24</li> <li>• N9K-C93180YC-EX</li> <li>• N9K-C93180YC-EX-24</li> <li>• N9K-C93180LC-EX</li> </ul> </li> <li>• Nexus 9300-FX2 series switches:               <ul style="list-style-type: none"> <li>• N9K-C9336C-FX2</li> <li>• N9K-C93216TC-FX2</li> <li>• N9K-C93240YC-FX2</li> <li>• N9K-C93360YC-FX2</li> <li>• N9K-C9336C-FX2-E</li> </ul> </li> <li>• Nexus 9300-FX series switches:               <ul style="list-style-type: none"> <li>• N9K-C93108TC-FX</li> <li>• N9K-C93108TC-FX-24</li> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93180YC-FX-24</li> </ul> </li> <li>• N9K-C9364D-GX2A</li> <li>• N9K-C9348D-GX2A</li> <li>• N9K-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C9358GY-FXP with 24GB of RAM</li> <li>• N9K-C9400-SW-GX2A</li> <li>• N9K-C93180YC-FX3H</li> <li>• N9K-C93108TC-FX3H</li> </ul>

Scale Profile	Supported Switches
Multicast Heavy	<ul style="list-style-type: none"> <li>• N9K-C93180YC-FX</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9316D-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> <li>• N9K-C93180YC-FX3H</li> <li>• N9K-C93108TC-FX3H</li> </ul>

## 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	<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> <li>• VRFs: 800</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> <li>• VRFs: 800</li> </ul>

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
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> <li>• VRFs: 800</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> <li>• VRFs: 800</li> </ul>
High IPv4 EP Scale	Not supported.	<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> <li>• VRFs: 800</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> <li>• VRFs: 800</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> <li>• VRFs: 800</li> </ul>

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
<p>Maximum LPM</p> <p><b>Note</b> This profile is not supported on Remote Leaf (RL).</p>	<p>Not supported.</p>	<p><b>Note</b> Supported only on GX and GX2B switches.</p> <ul style="list-style-type: none"> <li>• EP MAC: 8,000</li> <li>• EP IPv4: 8,000</li> <li>• EP IPv6: 4,000</li> <li>• LPM: 440,000 IPv4 + 100,000 IPv6</li> <li>• Policy: 8,000</li> <li>• Multicast: 1,000</li> <li>• VRFs: 250</li> </ul>
<p>High Policy</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> <li>• VRFs: 800</li> </ul>	<p><b>Note</b> Except FXP switches.</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> <li>• VRFs: 800</li> </ul>
<p>IPv4 Scale</p>	<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> <li>• VRFs: 800</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> <li>• VRFs: 800</li> </ul>

Scale Profile	Scale for EX, FX2, FX2-E, and GX2A Switches	Scale for FX, FX3, FXP, GX and GX2B Switches
Multicast Heavy	Not supported.	<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><li>• VRFs: 800</li></ul>