



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

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## Supported Platforms

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



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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> </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-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</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> </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-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> </ul>
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-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</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> </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-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> </ul>

Scale Profile	Supported Switches
High Policy	<p data-bbox="963 296 1515 352"><b>Note</b> Full scale for this profile requires FX, FX3, GX models with 32GB of RAM.</p> <ul style="list-style-type: none"> <li data-bbox="997 390 1360 415">• Nexus 9300-EX series switches: <ul style="list-style-type: none"> <li data-bbox="1049 436 1292 462">• N9K-C93108TC-EX</li> <li data-bbox="1049 487 1325 512">• N9K-C93108TC-EX-24</li> <li data-bbox="1049 537 1292 562">• N9K-C93180YC-EX</li> <li data-bbox="1049 588 1325 613">• N9K-C93180YC-EX-24</li> <li data-bbox="1049 638 1292 663">• N9K-C93180LC-EX</li> </ul> </li> <li data-bbox="997 709 1370 735">• Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> <li data-bbox="1049 756 1273 781">• N9K-C9336C-FX2</li> <li data-bbox="1049 806 1305 831">• N9K-C93216TC-FX2</li> <li data-bbox="1049 856 1305 882">• N9K-C93240YC-FX2</li> <li data-bbox="1049 907 1305 932">• N9K-C93360YC-FX2</li> </ul> </li> <li data-bbox="997 978 1357 1003">• Nexus 9300-FX series switches: <ul style="list-style-type: none"> <li data-bbox="1049 1024 1292 1050">• N9K-C93108TC-FX</li> <li data-bbox="1049 1075 1325 1100">• N9K-C93108TC-FX-24</li> <li data-bbox="1049 1125 1292 1150">• N9K-C93180YC-FX</li> <li data-bbox="1049 1176 1325 1201">• N9K-C93180YC-FX-24</li> </ul> </li> <li data-bbox="997 1247 1243 1272">• N9K-C93600CD-GX</li> <li data-bbox="997 1297 1211 1323">• N9K-C9364C-GX</li> <li data-bbox="997 1348 1243 1373">• N9K-C9332D-GX2B</li> <li data-bbox="997 1398 1253 1423">• N9K-C93180YC-FX3</li> <li data-bbox="997 1449 1263 1474">• N9K-C93108TC-FX3P</li> </ul>

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> </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-C9348GC-FXP</li> <li>• N9K-C93600CD-GX</li> <li>• N9K-C9364C-GX</li> <li>• N9K-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> </ul>
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-C9332D-GX2B</li> <li>• N9K-C93180YC-FX3</li> <li>• N9K-C93108TC-FX3P</li> </ul>

# Scalability

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



**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, and FX2-E 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> </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 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> </ul>

Scale Profile	Scale for EX, FX2, and FX2-E Switches	Scale for FX, FX3, FXP, GX, and GX2B Switches
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>
High Policy	<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> 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> </ul>
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>
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> </ul>