



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

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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	<ul style="list-style-type: none"> • Nexus 9300-EX series switches: <ul style="list-style-type: none"> • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX • N9K-C93180YC-EX-24 • N9K-C93180LC-EX • Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> • N9K-C9336C-FX2 • N9K-C93216TC-FX2 • N9K-C93240YC-FX2 • N9K-C93360YC-FX2 • N9K-C9336C-FX2-E • Nexus 9300-FX series switches: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Nexus 9300-EX series switches: <ul style="list-style-type: none"> • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX • N9K-C93180YC-EX-24 • N9K-C93180LC-EX • Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> • N9K-C9336C-FX2 • N9K-C93216TC-FX2 • N9K-C93240YC-FX2 • N9K-C93360YC-FX2 • N9K-C9336C-FX2-E • Nexus 9300-FX series switches: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • Nexus 9300-EX series switches: <ul style="list-style-type: none"> • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX • N9K-C93180YC-EX-24 • N9K-C93180LC-EX • Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> • N9K-C9336C-FX2 • N9K-C93216TC-FX2 • N9K-C93240YC-FX2 • N9K-C93360YC-FX2 • N9K-C9336C-FX2-E • Nexus 9300-FX series switches: <ul style="list-style-type: none"> • 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	<p>Note Full scale for this profile requires FX, FX3, GX models with 32GB of RAM.</p> <ul style="list-style-type: none"> • Nexus 9300-EX series switches: <ul style="list-style-type: none"> • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX • N9K-C93180YC-EX-24 • N9K-C93180LC-EX • Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> • N9K-C9336C-FX2 • N9K-C93216TC-FX2 • N9K-C93240YC-FX2 • N9K-C93360YC-FX2 • N9K-C9336C-FX2-E • Nexus 9300-FX series switches: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Nexus 9300-EX series switches: <ul style="list-style-type: none"> • N9K-C93108TC-EX • N9K-C93108TC-EX-24 • N9K-C93180YC-EX • N9K-C93180YC-EX-24 • N9K-C93180LC-EX • Nexus 9300-FX2 series switches: <ul style="list-style-type: none"> • N9K-C9336C-FX2 • N9K-C93216TC-FX2 • N9K-C93240YC-FX2 • N9K-C93360YC-FX2 • N9K-C9336C-FX2-E • Nexus 9300-FX series switches: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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(4).



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"> • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 8,000 	<ul style="list-style-type: none"> • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 64,000 • Multicast: 8,000
High Dual Stack	<ul style="list-style-type: none"> • EP MAC: 64,000 • EP IPv4: 64,000 • EP IPv6: 24,000 • LPM: 38,000 • Policy: 8,000 • Multicast: 512 	<ul style="list-style-type: none"> • EP MAC: 64,000 • EP IPv4: 64,000 • EP IPv6: 48,000 • LPM: 38,000 • Policy: 128,000 • 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.	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 128,000 • Policy: 8,000 • Multicast: 8,000 	<ul style="list-style-type: none"> • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 128,000 • Policy: 8,000 • Multicast: 8,000
High Policy	<ul style="list-style-type: none"> • EP MAC: 16,000 • EP IPv4: 16,000 • EP IPv6: 8,000 • LPM: 8,000 • Policy: 100,000 • Multicast: 8,000 	<p>Note Except FXP switches.</p> <ul style="list-style-type: none"> • EP MAC: 24,000 • EP IPv4: 24,000 • EP IPv6: 12,000 • LPM: 20,000 • Policy: 256,000 • Multicast: 8,000
IPv4 Scale	<ul style="list-style-type: none"> • EP MAC: 48,000 • EP IPv4: 48,000 • EP IPv6: 0 • LPM: 38,000 • Policy: 64,000 • Multicast: 8,000 	<ul style="list-style-type: none"> • EP MAC: 48,000 • EP IPv4: 48,000 • EP IPv6: 0 • LPM: 38,000 • 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
Multicast Heavy	Not supported.	<ul style="list-style-type: none">• 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