



Cisco Nexus 9000 Series NX-OS Verified Scalability Guide, Release 10.2(4)M

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Preface

Audience

This publication is for network administrators who configure and maintain Cisco Nexus devices.

Document Conventions



Note

As part of our constant endeavor to remodel our documents to meet our customers' requirements, we have modified the manner in which we document configuration tasks. As a result of this, you may find a deviation in the style used to describe these tasks, with the newly included sections of the document following the new format.

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
Italic	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
variable	Indicates a variable for which you supply values, in context where italics cannot be used.

Convention	Description
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
screen font	Terminal sessions and information the switch displays are in screen font.
boldface screen font	Information you must enter is in boldface screen font.
italic screen font	Arguments for which you supply values are in italic screen font.
<>	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!,#	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note

Means reader take note. Notes contain helpful suggestions or references to material not covered in the manual.



Caution

Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to: .

We appreciate your feedback.

Introduction

This document describes the Cisco NX-OS configuration limits for Cisco Nexus 9000 Series switches.

The values provided in this guide should not be interpreted as theoretical system limits for Cisco Nexus 9000 Series hardware or Cisco NX-OS software. These limits refer to values that have been validated by Cisco. They can increase over time as more testing and validation is done.

Verified Scalability Limits - Unidimensional

The tables in this section list the verified scalability limits for the Cisco Nexus 9000 Series switches for Cisco NX-OS Release 10.2(4)M.

These limits are validated with a unidimensional configuration. The values are provided in these tables focus on the scalability of one particular feature at a time.

Each number is the absolute maximum that is currently supported by this Cisco NX-OS release for the corresponding feature. If the hardware is capable of a higher scale, future software releases could increase this verified maximum limit. Results might differ from the values that are listed in this guide when you try to achieve maximum scalability with multiple features enabled.



Note

- 1. If only one number is provided, the verified limit applies to all supported platforms and line cards.
- 2. Verified limits are provided only for supported platforms.
- 3. If a feature is not supported for a particular platform, the verified limit is not provided.



Note

You can deploy upto 500 commands under config-profile.

Table 1: Cisco Nexus 2000 Series Fabric Extenders (FEX) Straight Through Mode Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Fabric Extenders ¹ and Fabric Extender server interfaces	Nexus 9300-EX/FX/FX2/FX3 switches	16 and 768
VLANs across all Fabric Extenders	Nexus 9300-EX/FX/FX2/FX3 switches	562
VLANs per Fabric Extender server interface ²	Nexus 9300-EX/FX/FX2/FX3 switches	75
Port channels	Nexus 9300-EX/FX/FX2/FX3 switches + FEX	511

When FEX configured using "AA" mode, then the maximum number of 6 FEX on the NFE base ToR and 16 FEX for the LSE base ToR are supported.

Table 2: ePBR Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Maximum services per switch	Nexus 9300 and 9500 switches	150^{3}
Endpoints per service	Nexus 9300 and 9500 switches	32
ePBR policies per switch	Nexus 9300 and 9500 switches	150
Policies per VRF	Nexus 9300 and 9500 switches	16
Services per chain	Nexus 9300 and 9500 switches	6
Match per policy.	Nexus 9300 and 9500 switches	16
Aces per match	Nexus 9300 and 9500 switches	256

³ Only 62 unique ACLs can be configured per slice of ASIC. Each ACL takes one label. If the same ACL is configured on multiple interfaces, the same label is shared. If each ACL has unique entries, the ACL labels are not shared, and the label limit is 62. In order to achieve 150 services per switch with the limitation of 62 ACLs per slice, the ingress interfaces should be spread across multiple slices of ASIC.



Note

- 1. For a list of platforms on which ePBR is supported, see the Cisco Nexus 9000 Series NX-OS ePBR Configuration Guide.
- 2. For the ACL limitations, see the Cisco Nexus 9000 Series NX-OS Security Configuration Guide.

Table 3: FC and FCoE Switch Level Configuration Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
FLOGI per port	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	256
FLOGI per switch	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	1000
Port channels	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	84
Maximum number of member ports in a port channel	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	16
NPV switches per NPIV core switch	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	85

² For FEX HIF port channels, Cisco recommends that you enable STP port type edge using the **spanning tree port type edge** [trunk] command.

Feature	Supported Platforms	Verified Limits
Maximum number of FC ports supported	Nexus 93180YC-FX switches	48
	Nexus 93360YC-FX2 switches	96
	Nexus 9336C-FX2-E switches	112
VFCs	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	512 ⁶
VSANs	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	32

The number of SAN port channels and virtual FC port channels, together, can be only 8 on the Cisco Nexus 9000 Series switch.
 Tested with FC NPV.
 This is applicable only for the NPV mode.

Table 4: FC and FCoE Fabric Level Configuration Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Zones	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	8000
Zone members	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	16,000
Zone sets	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	32
Zone database size	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	2 MB
FCNS entries in the fabric	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	10,000
Device Alias	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	8000
Switch hops from server to storage	Nexus 93180YC-FX, 93360YC-FX2, and 9336C-FX2-E switches	7

Table 5: Intelligent Traffic Director Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Nodes per device group	Nexus 9300-FX switches	64
	N9K-X96136YC-R, N9K-X9636Q-R, N9K-X9636C-R, and N9K-X9636C-RX line cards	16
ITD services per switch	Nexus 9300-FX switches	150 7

Feature	Supported Platforms	Verified Limits
Buckets per ITD service	N9K-X96136YC-R, N9K-X9636Q-R, N9K-X9636C-R, and N9K-X9636C-RX line cards	64
	Nexus 9300-FX switches	256

Only 62 unique ACLs can be configured per slice of ASIC. Each ACL takes one label. If the same ACL is configured on multiple interfaces, the same label is shared. If each ACL has unique entries, the ACL labels are not shared, and the label limit is 62. In order to achieve 150 ITD services per switch with the limitation of 62 ACLs per slice, the ingress interfaces should be spread across multiple slices of ASIC.



- **1.** For a list of platforms on which ITD is supported, see the *Cisco Nexus 9000 Series NX-OS Intelligent Traffic Director Configuration Guide*.
- 2. For the ACL limitations, see the Cisco Nexus 9000 Series NX-OS Security Configuration Guide.

Table 6: Interfaces Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
DHCP clients per switch	Nexus 9300-EX/FX/FX2/FX3 switches	10 (IPv4) + 10 (IPv6)
	N9K-X9716D-GX and Nexus 9700-EX line cards	
Flex link	Nexus 9300-EX/FX/FX2, and 9364C switches	One pair consists of one each of active and backup interface. The active and backup interface can be either a physical port or port channel.
IP DHCP relay addresses (helper addresses)	Nexus 9300-EX/FX/FX2/FX3 switches	32 (IPv4) + 32 (IPv6)
per switch	N9K-X9716D-GX and Nexus 9700-EX line cards	
Generic routing encapsulation (GRE)	Nexus 9300-EX/FX/FX2 switches	16
tunnels	N9K-X9716D-GX and Nexus 9700-EX line cards	
LACP rate fast support during system switchover	Nexus 9700-EX line cards	606 ports
Port channel links	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus 9600-R, 9600-RX, and 9700-EX line cards	32

Feature	Supported Platforms	Verified Limits
SVIs	Nexus 9300-EX/FX/FX2 switches	1000 (with HSRP)
	N9K-X9716D-GX line cards	1000 HSRP groups
	Nexus 9300-FX3 switches	510
	Nexus 9300-GX/GX2	1000
	Nexus 9700-EX line cards	1000 (with HSRP), 1500 (without HSRP)
	Nexus 9600-R and 9600-RX line cards	3967
	Nexus N9K-X9636C-R, N9K-X9636Q-R, N9K-X9636C-RX and N9K-X96136YC-R line cards	350 (with HSRP), 3967 (without HSRP)
Selective Q-in-Q with Multiprovider tag	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus 9600-R/RX line cards	4000 mappings, 10 provider VLANs; System wide: 48,000 mappings, 512 Provider VLANs
SVI Unnumbered	Nexus 9300-EX/FX/FX2 switches	Primary (50); Secondary (450), 1 primary
	N9K-X9716D-GX and Nexus 9700-EX line cards	SVI can have a maximum of 50 secondary SVIs
vPCs	Nexus 9300-FX/FX2/FX3 switches	80
	Nexus 9300-EX switches	48
	Nexus 9300-GX switches (ToR)	60 (for flat Layer 2 Network)
		56 (for L2/L3 Network)
	Nexus 9700-EX line cards	300
	Nexus 9600-R, 9600-RX, and 9700-EX line cards	255
	Nexus N9K-X9636C-R, N9K-X9636Q-R, N9K-X9636C-RX and N9K-X96136YC-R line cards	110
Static Network Address Translation (NAT)	Nexus 9300-EX/FX/FX2 switches	1023
Dynamic Network Address Translation (NAT)	Nexus 9300-EX/FX/FX2 switches	1023
Static twice Network Address Translation (NAT)	Nexus 9300-EX/FX/FX2 switches	768
Dynamic twice Network Address Translation (NAT)	Nexus 9300-EX/FX/FX2 switches	1023

Feature	Supported Platforms	Verified L	imits
Sub-interfaces	Nexus 9300-FX2/FX3/GX/GX2 switches	3900	
		Note	It is recommended to configure 60% of the mentioned limits with higher route scale deployments.
	Nexus 9300-FX and 9300C switches	1900	
		Note	It is recommended to configure 60% of the mentioned limits with higher route scale deployments.
	Nexus 9300-EX platform switches	900	
		Note	It is recommended to configure 60% of the mentioned limits with higher route scale deployments.

Table 7: Label Switching Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Forwarding Equivalence Classes (FECs) (Node/Prefix/Adj/Binding SID)	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	MPLS Heavy Template: 4096; Default: 1024
	Nexus 9600-R and 9600-RX line cards	1000
Equal-cost multipaths (ECMPs)	Nexus 9300-EX/FX switches, and Nexus 9700-EX/FX line cards	32
	Nexus 9600-R and 9600-RX line cards	8 - way

Feature	Supported Platforms	Verified Li	mits
Equal-cost multipaths Groups (ECMPs)	Nexus 9300-EX/FX2, and 9364C switches		vy Template: 7166 (with 4-way 1 4096 (with 8-way ECMP)
		Default: 10	24
		Note	After the ECMP objects are exhausted, there is a fallback to the adjacency for all further routes.
	Nexus 9300-FX/GX switches	Routing Mo	vy Template and Default ode: 7166 (with a 4-way ECMP) with 8-way ECMP)
		Note	After the ECMP objects are exhausted, there is a fallback to the adjacency for all further routes.
	Nexus 9600-RX line cards	24,000 ECI	MP Groups 2 paths per ECMP
		Note	Supported only on Cisco NX-OS Release 9.2(4).
FECs * ECMPs	Nexus 9600-R and 9600-RX line cards	8000	
Flex counters for segment-routing in ingress direction	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	_	ss label stats: 4000; VRF ingress 1000; (MPLS Heavy Template)
Flex counters for segment-routing in Egress direction	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	Total ingres Heavy Tem	ss label stats: 48,000 (MPLS aplate)
Egress Peer Engineering	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	64	
IAS option B labels	Nexus 9600-R and 9600-RX line cards	450,000	
Label-switched paths (LSPs) for label stack imposition ⁸	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	256 (with 3 push)	2 - way ECMP and 5 label stack
Layer 3 VPN routes	Nexus 9600-R and 9600-RX line cards	450,000	
Layer 3 EVPN Labels	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	1000 (With	MPLS Heavy Template)
LDP session	Nexus 9600-R and 9600-RX line cards ²	200	
Node Sid/Prefix SID	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	4000	
Adjacency SID	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	112	

Feature	Supported Platforms	Verified Limits		
Binding SID	Nexus 9300-EX/FX switches and Nexus 9700-EX/FX line cards	1000		
SRTE Policy	SRTE Policy			
SRTE policy with PBR	Nexus 9300-FX/FX2/FX3/GX and 9364C switches	512 per slice with 4 way ECMP/1024 per slice with 2 way ECMP		
Number of route-maps with SRTE policy (IPv4/IPv6)	Nexus 9300-FX/FX2/FX3/GX and 9364C switches	256 (IPv4) + 256 (IPv6) per slice with 4 way ECMP		

 $^{^8}$ For Cisco Nexus 9300 and 9500 Series switches, LSPs *ECMP* label stack push cannot exceed 1500. 9 N9K-X9636C-RX, N9K-X9636C-R, N9K-X9636Q-R, and N9K-96136YC-R



• For network scalability, Cisco recommends using a hierarchical routing design with multi-hop BGP for advertising the attached prefixes from a top-of-rack (ToR) or border leaf switch.

Table 8: Private VLANs (PVLANs) Verified Scalability Limits (Unidimensional)

Feature		Supported Platforms	Verified Limits	
Primary VLANs		Nexus N9K-X9716D-GX and Nexus	16	
Note	The 400 PVLAN-mapping	9700-EX/FX line cards		
scale per PVLAN port is only applicable when port is configured as promiscuous trunk port.		Nexus 9300-EX/FX/FX2/FX3 switches	400	
Secondary	VLANs	Nexus N9K-X9716D-GX and Nexus	20	
Note	The 400 PVLAN-mapping	9700-EX/FX line cards		
	scale per PVLAN port is only applicable when port is configured as promiscuous trunk port.	Nexus 9300-EX/FX/FX2/FX3 switches	400	
Ports in Co	ommunity host mode	Nexus 9300-EX/FX/FX2/FX3	40	
		Nexus N9K-X9716D-GX and Nexus 9700-EX/FX line cards		
Ports in isolated host mode		Nexus 9300-EX/FX/FX2/FX3 switches	40	
		Nexus N9K-X9716D-GX and Nexus 9700-EX/FX line cards		

Feature		Supported Platforms	Verified Limits
Ports in isolated trunk host mode		Nexus 9300-EX/FX/FX2/FX3 switches	40
		Nexus N9K-X9716D-GX and Nexus 9700-EX/FX line cards	
Ports in pro	omiscuous mode	Nexus 9300-EX and 9300-FX switches	10
		Nexus 9300-FX2/FX3 switches, Nexus N9K-X9716D-GX and Nexus 9700-EX/FX line cards	5
Ports in pro	omiscuous trunk mode	Nexus 9300-EX and 9300-FX switches	10
		Nexus 9300-FX2 /FX3 switches, Nexus N9K-X9716D-GX, and Nexus 9700-EX/FX line cards	5
PVLANs a	llowed on a PVLAN port	Nexus N9K-X9716D-GX and Nexus	16
Note The 400 PVLAN-mapping		9700-EX/FX line cards	
	scale per PVLAN port is only applicable when port is configured as promiscuous trunk port.	Nexus 9300-EX/FX/FX2/FX3 switches	400

Table 9: Layer 2 Switching Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
MAC addresses	Nexus 9300-EX/FX/FX2/FX3 switches, Nexus N9K-X9716D-GX and Nexus 9700-EX/FX line cards	92,000
	Nexus 9300-GX/GX2 switches	92,000 (default system routing mode) 200,000 ¹⁰
	Nexus 9364C switches	90,000 (default system routing mode without system routing layer 3 scale) 32,000 (default system routing mode with system routing layer 3 scale)
	Nexus 9600-R and 9600-RX line cards	192,000
	N9K-C9264PQ and 9300-EX switches	200,000 11
	Nexus 92348GC-X switches	97,000
MST instances	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus 9600-R, 9600-RX, N9K-X9716D-GX, and 9700-EX/FX line cards	64

Feature	Supported Platforms	Verified Limits		
MST PV count with single instances 0	Nexus 9300-FX/FX2/FX3 switches	190,000		
MST virtual ports with more than 1 MST	Nexus 9300-EX/FX/FX2/FX3 switches	48,000		
instance	Nexus N9K-X9716D-GX and 9700-EX/FX line cards	85,000		
	Nexus 9600-R and 9600-RX line cards	236,000		
RPVST virtual ports (physical ports *	Nexus 9300-EX/FX/FX2/FX3 switches	12,000		
vlans)	Nexus N9K-X9716D-GX and 9700-EX/FX line cards	22,000		
	Nexus 9600-R and 9600-RX line cards	13,750		
RPVST logical ports (logical ports * vlans)	Nexus 9300-EX/FX/FX2/FX3 switches	12,000		
	Nexus N9K-X9716D-GX and 9700-EX/FX line cards	22,000		
	Nexus 9600-R and 9600-RX line cards	13,750		
VLANs	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus N9K-X9716D-GX, 9600-R, 9600-RX, and 9700-EX/FX line cards	3967 (the remaining 127 VLANs are reserved)		
	Nexus 92348GC-X switches	4096		
VLANs in RPVST mode	Nexus 9300-EX/FX/FX2/FX3/GX switches	3967		
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	3967 ¹²		
	Nexus 9600-R and 9600-RX line cards	250		
Total number of VLANs × ports with switch port isolated (3967 VLANs x 48 ports)	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	190,000		
Total number of VLANs × ports with switch port isolated (3967 VLANs x 144 ports)	Nexus N9K-X9636C-R, N9K-X9636Q-R, N9K-X9636C-RX, and N9K-X96136YC-R line cards	571,248		
Private VLANs (PVLANs)				
Primary VLANs	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	16		
Secondary VLANs	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	20		

Feature	Supported Platforms	Verified Limits
Ports in Community host mode	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	40
Ports in isolated host mode	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	
Ports in isolated trunk host mode	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	40
Ports in promiscuous mode	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	
Ports in promiscuous trunk mode	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	5
PVLANs allowed on a PVLAN port	Nexus 9300-EX/FX/FX2 switches, Nexus 9700-EX and N9K-X9716D-GX line cards	16

Layer 2 unidimensional scale only. SVI, Layer 3 interface, and VXLAN VLANs are not supported. 200K MAC is enabled only when "system routing template-12-heavy" is configured and the system is reloaded.

On EOR, support is for 12,000 PV count with 3967 vlans and RPVST with default timers. If 22,000 PV count is needed with 3968 vlans and RPVST, recommended hello timer value is 4 or higher. It is also recommended to tune forward delay and max age accordingly.



- The number of supported VLANs per vPC should be within the MST or RPVST virtual port count that is specified in this table, depending on the topology.
- The number of supported STP VLAN port instances, for Fabric Extender host interface ports, should be less than 13000.
- The ports with switch port isolated are only supported on Layer 2 ports. However, on Layer 2 the following port types are not supported:
 - FEX host interfaces
 - FEX host interface port channels
 - PVLAN ports

Table 10: Multicast Routing Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Egress NAT	Nexus 9300-EX/FX/FX2 switches	2000
Ingress NAT	Nexus 9300-EX/FX/FX2 switches	2000
Egress and Ingress NAT	Nexus 9300-EX/FX/FX2 switches	2000

Layer 2 unidimensional scale only. SVI, Layer 3 interface, and VXLAN VLANs are not supported. 200K MAC is enabled only when "system routing template-12-heavy" is configured and the system is reloaded.

Feature		Supported Platforms	Verified Limits
IPv4 multicast routes		Nexus 9348GC-FXP switches	8192 (Layer 2 + Layer 3)
are for combi	The limits are for a combination of IPv4 and	Nexus 9300-EX switches and Nexus 9700-EX line cards	8192 (Layer 2 + Layer 3); 32,768 (layer 2 + Layer 3 with system routing template - multicast -heavy mode); 8192 (with system routing template - lpm - heavy mode)
	multicast routes. Layer 2 multicast	Nexus 9332C and 9364C switches	16,384 (Layer 2 + Layer 3) with the default template and the system routing layer 3 scale configuration.
	entries are a part of the total 120K limits. For	Nexus 9300-FX2 switches	8192 (Layer 2 + Layer 3); 32,768 (Layer 2 + Layer 3 with system routing template - multicast -heavy mode); 131,072 (with system routing template - multicast - ext - heavy mode)
	example, 110K IPv4 +	Nexus 9300-FX3 switches	128,000 (64,000 *, G + 64,000 S,G)
2K IPv6 multicast routes + 8K Layer 2 multicast entries.	multicast routes + 8K Layer 2	Nexus 9700-FX line cards	8192 (Layer 2 + Layer 3); 32,768 (layer 2 + Layer 3 with system routing template - multicast -heavy mode); 131,072 (with system routing template - multicast - ext - heavy mode) ¹³
	entries.	Nexus 9300-FX/GX/GX2 switches	32,768 (layer 2 + Layer 3 with system routing template - default, multicast -heavy mode); 131,072 (with system routing template - multicast - ext - heavy mode)
	Nexus 9600-R and 9600-line cards	32,768 (Layer 3)	
		Nexus N9K-X9716D-GX line card	131,072 (65,536 *,G + 65,536 S,G)
IPv6 multicast routes		Nexus 92160YC-X, 9300-EX, 9300-FX, and 9500 switches	8192 (Layer 3 with system routing template - default, multicast - heavy, multicast - ext - heavy and multicast - heavy, multicast - ext - heavy, dual - stack - multicast)
		Nexus 9300-FX2 and 9364C switches	8192 (Layer 3 with system routing template -multicast -heavy mode)
		Nexus 9300-FX3 switches and N9K-X9716D-GX line card	8192 (4096 - *, G + 4096 - S,G)
		Nexus 9332C and 9364C switches	8192 (Layer 2 + Layer 3 with system routing template - multicast - heavy mode)
		Nexus 9348GC-FXP switches	8192 (layer 2 + Layer 3 with system routing template - multicast - heavy - multicast - ext - heavy mode)
		Nexus 9300-GX/GX2 switches	8192

Feature	Supported Platforms	Verified Limits
MLD snooping groups	Nexus 9300-EX/FX/FX2 switches and Nexus 9700-EX/FX line cards	8192
Multicast FPV	Nexus 9300-GX/GX2 switches	IPv4 32,000 (Layer 2 + Layer 3) multicast routes
Outgoing interfaces (OIFs)	Nexus 9300-EX/FX/FX2/FX3 switches, N9K-X9716D-GX and Nexus 9700-EX/FX line cards	40 (SVI + physical layer 3) or 256 (physical layer 3)
	Nexus 9600-R and 9600-RX line cards	16 OIFs for 32K mroutes or 287 OIFs for 1000 mroutes
IGMP snooping groups	Nexus 9300-EX switches and Nexus 9700-EX line cards	8000
	Nexus 9300-FX2 switches and Nexus 9700-FX line cards	8000 (with system routing template - default), 16000 (with system routing template - multicast -heavy - multicast - ext - heavy mode)
	Nexus 9300-FX/FX3/GX/GX2 switches and N9K-X9716D-GX line card	16,000
PIM neighbors	Nexus 9300-EX/FX/FX2/FX3 switches	250
	Nexus 9600-R, 9600-RX and 9700-EX/FX line cards	500
MVPN- unidimensional	I	
Multicast VRFs	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	300
Default MDT groups	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	300
MVPN Peers (PIM neighbors) per device	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	900
Maximum number of PEs per VRF	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	200 PEs per VRF with up to 3 VRFs (600 PIM neighbors)
Maximum number of Data MDT groups per VRF on a PE	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	1000
Maximum number of Data MDT groups across all VRFs on a PE	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	10,000
Maximum number of MDT groups across all VRFs on PE	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	10,300 (10,000 Data + 300 default DMT)

Feature		Supported Platforms	Verified Limits
	number of routes on a PE	Nexus 9600-R and 9600-RX line cards (except the N9K-X96136YC-R line card)	32,000

All line cards must have the FX type.



- The IPv4 multicast routes and the IPv4/IPv6 host routes share the same hardware table. Limits are provided for both the default line card mode and the max host line card mode.
- High availability (graceful restart and stateful switchover) is not supported when unicast or multicast aggressive timers are configured at any scale.

Table 11: IP Fabric for Media Solution Verified Scalability Limits (Unidimensional)

Feature	Verified Limits
Number of nodes	35 (2 spines and 33 leafs)
No of routes	32,000
Host Policy	
Sender	16,000
Receiver	16,000
PIM	2000
FlowPolicy	32,000
ASM group-range	20
NBM Static Flows	
Per switch maximum (receiver leaf where the static OIF will be programmed) mroutes	1500
Per fabric maximum mroutes	8000
VRFs	16
PMN NAT	
Egress-NAT	1000 with ing-nbm tcam 512
Ingress-NAT	1000 with ing-nbm tcam 512
Ingress/Egress NAT	1500 with ing-nbm 512
Ingress/Egress NAT	2000 with ing-nbm 0

Feature	Verified Limits	
RTP Flow Monitoring with ACL		
ACL	128 IPv4 ACL entries or 64 IPv6 ACL entries (total 128 TCAM spaces)	
	Note With combined IPv4 and IPv6 ACL entries, the scale limit cannot exceed 128 TCAM spaces.	



For a list of supported platforms, see Cisco Nexus 9000 Series NX-OS IP Fabric for Media Solution Guide.

Table 12: Programmability Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits			
gNMI	gNMI				
VRF - Default	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	16 concurrent subscriptions			
VRF - Management	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	16 concurrent subscriptions			
VRF - Default and Management	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	32 concurrent subscriptions			
Paths	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	48 paths in a single subscription			
Message size	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	Less than 12 MB			
Aggregate MO's	Nexus 9300-EX/FX/FX2/GX switches and Nexus 9700-FX line cards	150,000			

Table 13: QoS Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Class maps per policy map	Nexus 9300-GX/GX2 switches	128
AFD	Nexus 9300-GX/GX2 switches	30 profiles
WRED	Nexus 9300-GX/GX2 switches	30 profiles
Ingress 1R2C	Nexus 9300-GX/GX2 switches	1280
Egress 1R2C	Nexus 9300-GX/GX2 switches	256
Ingress 2R3C	Nexus 9300-GX/GX2 switches	766

Feature	Supported Platforms	Verified Limits
Total policy maps	Nexus 9300-GX/GX2 switches	4000

Table 14: Security Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits	
Egress ACLs	Nexus 9600-R line cards	20,000	
System ACLs	Nexus 9600-R line cards	4000 TCAM entries in internal TCAM	
		64,000 TCAM entries in external TCAM	
ACLs	Nexus 9300-FX3	Ingress - 3584 IPv4, 1792 IPv6	
RACL Labels (maximum)	Nexus 9504 and 9508 switches	4000	
DHCP snooping bindings	Nexus 9300-EX/FX/FX2/FX3 switches, N9K-X9716D-GX and Nexus 9700-EX line cards	2048	
IPv4 ingress access control entries (ACEs)	Nexus 9600-R and 9600-RX line cards	• RACL on LC N9K-X9636C-RX: 100,000	
		• PACL on LC N9K-X9636C-RX: 12,000	
		• RACL-2,048, PACL-1024 (without TCAM Carving) IPv4 52,640 ACEs per system	
		PACL IPv4: 1024 TCAM entries in internal TCAM	
		• PACL MAC: 2048 TCAM entries in internal TCAM	
		• RACL IPv4: 2048 TCAM entries in internal TCAM	
IPv6 ingress access control entries (ACEs)	Nexus 9600-R and 9600-RX line cards	• RACL-1024, PACL-1024 (without TCAM Carving) IPv6 25,200 ACEs per system	
		• PACL IPv6: 1024 TCAM entries in internal TCAM	
		• RACL IPv6: 1024 TCAM entries in internal TCAM	

Feature	Supported Platforms	Verified Limits
IPv4 ingress TCAM entries	Nexus 9300-EX/FX switches, N9K-X9716D-GX and Nexus 9700-EX line cards	3582 (per slice of the forwarding engine)
	Nexus 9300-FX2 switches	3582
IPv4 egress TCAM entries	Nexus 9300-EX/FX/FX2 switches, N9K-X9716D-GX and Nexus 9700-EX line cards	1792 (per slice of the forwarding engine)
	Nexus 9300-GX switches	1792
	Nexus 92348GC-X switches	Ingress - 3072 IPv4, 1792 IPv6
IPv6 ingress TCAM entries	Nexus 9300-EX/FX/FX2 switches, Nexus N9K-X9716D-GX and 9700-EX line cards	1792 (per slice of the forwarding engine)
IPv6 egress TCAM entries	Nexus 9300-EX/FX/FX2 switches, Nexus N9K-X9716D-GX and 9700-EX line cards	896 (per slice of the forwarding engine)
	Nexus 9300-GX switches	1792
	Nexus 92348GC-X switches	Ingress - 3072 IPv4, 1792 IPv6



- The TCAM entries scalability limits also apply to policy-based TCAM entries (PBACLs).
- Only 62 unique ACLs can be configured. Each ACL takes one label. If the same ACL is configured on multiple interfaces, the same label is shared. If each ACL has unique entries, the ACL labels are not shared, and the label limit is 62.

Table 15: SRv6 Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
ARP	Nexus 9300-GX/GX2 switches	48,000
Host and LPM IPv4 routes	Nexus 9300-GX/GX2 switches	470,000
Host and LPM IPv6 routes	Nexus 9300-GX/GX2 switches	256,000
Leaf	Nexus 9300-GX/GX2 switches	256
SID DB	Nexus 9300-GX/GX2 switches	2000

Feature	Supported Platforms	Verified Limits
SRv6 and VXLAN Peer	Nexus 9300-GX/GX2 switches	256
VRF	Nexus 9300-GX/GX2 switches	1000
ND	Nexus 9300-GX/GX2 switches	24,000
SRv6 Traffic Engineering policies	Nexus 9300-GX/GX2 switches	1000
Number of prefixes (IPv4 and IPv6) that use SRv6 Traffic Engineering policies	Nexus 9300-GX/GX2 switches	50,000
Maximum number of preferences per policy	Nexus 9300-GX/GX2 switches	3
Maximum number of segment lists	Nexus 9300-GX/GX2 switches	3000

Table 16: System Management Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
PTP		

Feature	Supported Platforms	Verified Limits
PTP ports	Nexus 9300-EX/FX/FX2 switches	64 per system
		Note The verified limit for Nexus 9336C-FX2 switch is 144 per system.
	N9K-C93180YC-FX3 and N9K-C93180YC-FX3S switches	20 per system
	N9K-C93108TC-FX3P switches	25 per system
	Nexus 9300-GX switches	64 per system
	Nexus 9500 switches with Nexus 9700-EX	1305 per chassis
	line cards	The per line card limit is based on the maximum physical ports supported.
	Nexus 9508 switches with -R line cards	64 per line card
		300 per chassis
		Note PTP Offload is supported on 9508-R line cards.
	Nexus 9500 switches with Nexus 9600-RX	128 per line card
	line cards	512 per chassis
sFlow		
sFlow ports	Nexus 9300-EX/FX/FX2 switches	64
	Nexus 9300-FX3 switches	30
	Nexus 9700-EX line cards	256
	Nexus N9K-X9716D-GX line card	16
SPAN and ERSPAN		
Configurable SPAN or ERSPAN sessions	Nexus 9300-EX/FX/FX2/FX3 switches, the Nexus 9600-R, 9600-RX, and N9K-X9716D-GX line cards	32
Active SPAN or ERSPAN sessions 14	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9600-R, 9600-RX, and 9700-EX line cards	4 sessions (per chassis/ToR or based on the number of the line cards in the EoR. 15
Active localized SPAN or ERSPAN sessions per line card ¹⁶	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX line cards	4
	Nexus 9600-EX/FX line cards	32 sessions across ports on single-line card

Feature	Supported Platforms	Verified Limits
Active localized SPAN or ERSPAN session (Rx and Tx, Rx, or Tx)	Nexus 9600-R and 9600-RX line cards	32 sessions, 128 sources, and 1 destination
Source interfaces per SPAN or ERSPAN session (Rx and Tx, Rx, or Tx)	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX and N9K-X9716D-GX line cards	48
Destination interfaces per SPAN session	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9600-R, 9600-RX, N9K-X9716D-GX, and 9700-EX line cards	1 (physical/PO interface) Note Destination as PO interface is not supported for N9K-X9716D-GX line card.
Source VLANs per SPAN or ERSPAN session	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9600-R, 9600-RX, N9K-X9716D-GX, and 9700-EX line cards	32
Tap Aggregation		
Redirect interfaces in the redirect port list	Nexus 9300-EX/FX/FX2/GX, and Nexus 9500-CloudScale platform switches	32
	Nexus 9300-FX3 and 9500 Merchant Silicon platform switches	12
	Nexus N9K-X9716D-GX line card	12
Redirect port lists (or fan outs) per system	Nexus 9300-FX3 switches	100
	Nexus N9K-X9716D-GX line card	12
NetFlow		
Flow monitors	Nexus 9300-EX switches and 9500 with EX LC cards	2 flow monitors per type (2 IPv4 flow monitors and 2 IPv6 flow monitors).
		1 flow monitor for CE flows
		2 exporters for each flow monitor. Hence, a total of 4 different exporters can be configured.
	Nexus 9300-FX/FX2/GX switches and 9500 with FX LC cards	30 IPv4 flow monitor and each flow monitor with two exporters
		28 IPv6 flow monitor and each flow monitor with two exporters
		32 Layer2 Flow monitor and each flow monitor with two exporters
		Maximum number of exporters supported per flow monitor is 2

Feature	Supported Platforms	Verified Limits
Layer 3 interfaces (Layer 3 ports, port channels, and SVIs) to which IPv4 flow monitors can be applied	Nexus 9300-EX switches	1024 (with members on just one ASIC slice): 922 for IPv4/IPv6 flow monitors, while 32 are reserved for the Layer 2 flow monitors.
		Maximum number of SVIs supported:
		• 492 with IPv4 flow monitors only
		• 246 with IPv6 flow monitors only
		• 165 with both IPv4 flow monitor and IPv6 flow monitors attached
		Number of Layer 3 interfaces (Layer 3 ports, port channels, and SVIs) to which IPv4 flow monitors can be applied. You can use the show interface hardware-mappings command to check if the interface belongs to ASIC slice 0 or slice 1.
Maximum number of flows in the software table (IPv4 or IPv6 or CE flows)	Nexus 9000 switches	100,000 flows using the show flow cache command
Layer 3 interfaces (Layer 3 ports, port channels, and SVIs) to which IPv6 flow monitors can be applied	Nexus 9300-EX switches	252 (with members on just one ASIC slice) or 126 (with members on both ASIC slices). You can use the show interface hardware-mappings command to check if the interface belongs to ASIC slice 0 or slice 1.
Maximum number of concurrent flows	Nexus 9300-EX/FX/FX2 switches	6000 traffic flows.
supported (IPv4 or IPv6 or CE flows)		By increasing LCPU-PG-SIZE using the following command one can achieve Max 18000 concurrent flows, after modifying LCPU-PG-SIZE, the switch needs reboot after saving configuration
		switch(config)# hardware qos lcpu-pg-size ? <200-10000> Pool Group size
		switch(config)# hard qos lcpu-pg-size 5000
		Warning:Reload required for configured PG size to take effect. Save configuration and reload the system. switch(config)# copy running-config startup-config
		In Cisco Nexus Release 9.3(3), the hardware qos command is not supported.

15 If the source interface configured for a monitor session is on the same line card, the maximum supported active SPAN sessions are 4. Based on the number of line cards in the EoR, the total number of active SPAN sessions are 4 x n, where n is the number of line cards on EoR, provided the source and destination interface are on the same line module.

¹⁶ The number of SPAN or ERSPAN sessions per line card reduces to two if the same interface is configured as the bidirectional source in more than one session.

Table 17: NetFlow Scalability Support (Flows)

Feature	Platform	Port Speed	Scale Limit (Flows)	Export Interval (seconds)	Packets / Flow
Layer 2 Flow	Nexus 9300-EX	10G	3800	60	89,000
monitor	switches	40G	3800	60	356,000
		100G	3800	60	885,000
	Nexus	10G	6000	60	89,000
	9300-FX/FX2/FX3 switches	40G	6000	60	356,000
		100G	6000	60	885,000
	Nexus 9300-GX	10G	6000	60	89,000
switches	switches	40G	6000	60	356,000
		100G	6000	60	885,000
1 -	Nexus 9300-EX	10G	27,000	60	12,000
monitor (IPv4)		40G	27,000	60	54,000
		100G	27,000	60	160,000
	Nexus	10G	24,000	60	12,000
	9300-FX/FX2/FX3	40G	24,000	60	54,000
		100G	24,000	60	160,000
	Nexus 9300-GX	10G	24,000	60	12,000
	switches	40G	24,000	60	54,000
		100G	24,000	60	160,000

A single forwarding engine instance supports four SPAN or ERSPAN sessions. For Cisco Nexus 9300 Series switches, if the first three sessions have bidirectional sources, the fourth session has hardware resources only for Rx sources. This limitation might also apply to Cisco Nexus 9500 Series switches, depending on the SPAN or ERSPAN source's forwarding engine instance mappings.

Feature	Platform	Port Speed	Scale Limit (Flows)	Export Interval (seconds)	Packets / Flow
Layer 3 Flow	Nexus 9300-EX	10G	15,000	60	12,000
monitor (IPv6)		40G	15,000	60	54,000
		100G	15,000	60	160,000
Nexus 9300-FX/FX2/FX3 Nexus 9300-GX		10G	11,000	60	12,000
	9300-FX/FX2/FX3	40G	11,000	60	54,000
		100G	11,000	60	160,000
	Nexus 9300-GX	10G	11,000	60	12,000
		40G	11,000	60	54,000
		100G	11,000	60	160,000

Table 18: NetFlow SVI Verified Scalability Limits (Unidimensional)

Platform	SVI			VLAN			SVI + VLA	N	
(VLAN Ports)	IPv4	IPv6	IPv4 + IPv6	IPv4	IPv6	IPv4 + IPv6	IPv4	IPv6	IPv4 + IPv6
Member ports from Cisco Nexus 9300-EX switches	474	118	94	474	118	94	237	61	38
Member ports from Cisco Nexus 9300-FX switches	Total interfa	aces supported	d in the system	m					
Member ports from Cisco Nexus 9300-EX and Nexus 9300-FX switches (EOR chassis)	474	118	94	474	118	94	237	61	38



The scale numbers are based on the TCAM space available on the Cisco Nexus 9300-EX and Nexus 9300-FX switches. A IPv4 flow monitor uses 2 and 4 TCAM space for the Cisco Nexus 9300-EX and Nexus 9300-FX switches respectively. Similarly, a IPv6 flow monitor uses 8 and 2 TCAM space for the Cisco Nexus 9300-EX and Cisco Nexus 9300-FX switches respectively.

For port channels, SVIs, and VLANs that have port from both 9300-EX and 9300-FX switches, the lower common denominator limit of the 9300-EX and 9300-FX switches is applied.

Table 19: Unicast Routing Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Unicast Routing		
BFD sessions (echo mode)	Nexus 9364C switches	128 when the BFD intervals are set to default, which is 50 ms
		2048 when the BFD intervals are relaxed to 300 ms
	Nexus 9300-EX/FX/FX2/GX/GX2 switches	128 when the BFD intervals are set to default, which is 50 ms
		2048 sessions when the BFD intervals are relaxed to 300 ms
	Nexus 9300-FX3 switch	512
	Nexus 9700-EX/FX line cards	128 when the BFD intervals are set to default, which is 50 ms
		2048 sessions when the BFD intervals are relaxed to 300 ms
		Note On EoR, per line card session limit will be 256.
	N9K-X9716D-GX line card	512 when the BFD intervals are set to default, which is 50 ms
		1024 when the BFD intervals are relaxed to 300 ms
		Note On EoR, per line card session limit will be 256.
	Nexus 9600-R and 9600-RX line cards	288
Multi-hop BFD sessions	N9K-X9716D-GX	256 multi-hop sessions when the BFD timers are at default

Feature	Supported Platforms	Verified Limits
BGP neighbors	Nexus 92348GC-X switches	141
	Nexus 364C, 9300-EX/FX/FX2/FX3/GX switches	1024
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	2000
	Nexus 9600-R and 9600-RX line cards	960
EIGRP routes	Nexus 9364C, 9300-EX/FX/FX2/FX3/GX switches	20,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	50,000
EIGRP neighbors	Nexus 9364C, 9300-EX/FX/FX2/FX3/GX switches	256
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	2000
HSRP groups	Nexus 9600-R/RX switches and N9K-X9716D-GX line card	490
	Nexus 9300-EX/FX/FX2/FX3/GX switches	1000 17
	Nexus 9700-EX/FX switches and N9K-X9716D-GX line cards	1000 (virtual MAC address support) ¹⁸
	Nexus 9600-R and 9600-RX line cards	16 (Maximum 16 groups because 16 is the unique virtual MAC address limit)
IPv4 ARP	Nexus 9364C switches	32,000
	Nexus 9600-R, 9600-RX, and 9700-EX/FX line cards	48,000
	Nexus 9300-EX/FX2 switches	48,000 (without URPF)
		32,000 (with URPF enabled)
	Nexus 9300-FX/GX switches	98,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP))
	Nexus 9300-FX3 switches	98,000
	Nexus N9K-X9716D-GX line card	98,304

Feature	Supported Platforms	Verified Limits
IPv4 host routes ¹⁹	Nexus 9364C switches	96,000 (default system routing mode without system routing layer 3 scale)
		128,000 (default system routing mode with system routing layer 3 scale)
	Nexus 9300-EX switches	458,000 (default); 786,000 / 720,000 (with system routing template - lpm - heavy mode)
	Nexus 9300-FX2 switches	524,000 / 471,000 (without / with urpf enabled) (default); 786,000 / 734,000 (without / with urpf enabled) (with system routing template - lpm -heavy mode)
	Nexus 9300-FX/GX switches	1,153,000 (default); 786,000 / 734,000 (with out / with urpf enabled) (with system routing template - lpm -heavy mode)
	Nexus 9300-FX3 switches	1,119,000
	Nexus 9700-EX and N9K-X9716D-GX line cards	1,000,000 (default); 786,000 (with system routing template - lpm -heavy mode)
		589,000 (default); 786,000 (with system routing template - lpm -heavy mode)
	Nexus 9600-R/RX line cards	1,000,000 (default routing template)

Feature	Supported Platforms	Verified Limits
IPv6 host routes ²⁰	Nexus 9364C switches	48,000 (default system routing mode without system routing layer 3 scale)
		64,000 (default system routing mode with system routing layer 3 scale)
	Nexus 9300-EX switches	24,000 / 16,000 (with out/with urpf enabled)
	Nexus 9300-FX2 switches	265,000 (default), 442,000 / 412,000 (without / with urpf enabled) (with system routing template -lpm - heavy mode)
	Nexus 9300-FX/GX switches	628,000 (default), 442,000 / 412,000 (without / with urpf enabled) (with system routing template -lpm - heavy mode)
	Nexus 9300-FX3 switches	600,000
		442,000 (LPM heavy mode)
	Nexus 9700-EX/FX line cards	FM-E: 32,000
		FM-E2: 235,000
		FM-G: 235,000
	Nexus 9600-RX line cards	256,000 (default routing template)
	Nexus N9K-X9716D-GX line card	235,000
IPv6 ND	Nexus 9364C, 9300-EX/FX2 switches	32,000 (default), 16,000 (lpm heavy)
	Nexus 9300-FX/GX switches	98,000 (in default routing mode, Hash Table: Shared between IPv6 ND, IPv4 ARP)
	Nexus 9300-FX3 switches	98,000 (default), 16,000 (lpm heavy) (Hash Table: Shared between IPv6 ND, IPv4 ARP)
	Nexus 9600-R, 9600-RX, and 9700-EX/FX line cards	32,000

ıs 9364C switches	Default system routing mode without system routing layer 3 scale: • Default values: 8000 (IPv4), 1900 (IPv6), and 2000 (multicast)
	• With hardware profile multicast max-limit lpm-entries 0 configured: 10,000 (IPv4), 1900 (IPv6), and 0 (multicast)
	• With hardware profile ipv6 lpm-entries maximum 0 configured: 14,000 (IPv4), 0 (IPv6), and 2000 (multicast)
	• With hardware profile ipv6 lpm-entries maximum 4096 and hardware profile multicast max - limit lpm - entries 0 configured: 4000 (IPv4), 4096 (IPv6), and 0 (multicast)
	• When you allocate the entire table for IPv4 or IPv6 LPM unicast routes, the other address family cannot be used.
	128,000 (default system routing mode with system routing layer 3 scale)
us 9300-EX switches	458,000 (default)
ıs 9300-FX switches	1,153,000 / 996,000 (without / with urpf enabled) (default), 786,000 / 734,000 (without / with urpf enabled) (with system routing template - lpm - heavy - mode)
ıs 9300-FX2 switches	524,000 / 471,000 (default); 786,000 / 734,000 (without / with urpf enabled) (with system routing template - lpm -heavy mode)
s 9300-GX switches	1,153,000 (default), 786,000 / 734,000 (without / with urpf enabled) (with system routing template - lpm - heavy mode)
us 9300-FX3 switches	1,119,000
is 9300 switches	128,000 (default system routing mode); 16,000 (max-host routing mode)
as 9700-EX/FX and N9K-X9716D-GX cards	589,000 (default)
1 1 1 1 1 1	as 9300-FX switches as 9300-FX2 switches as 9300-GX switches as 9300-FX3 switches as 9300 switches as 9700-EX/FX and N9K-X9716D-GX

Feature	Supported Platforms	Verified Limits
	Nexus 9600-R line cards	192,000 (Default system routing template)
	Nexus 9600-RX line cards	1,000,000 (Default system routing template)

Feature	Supported Platforms	Verified Limits
IPv6 unicast routes (LPM)*	Nexus 9364C switches	Default system routing mode without system routing layer 3 scale
		• Default values: 8000 (IPv4), 1900 (IPv6), and 2000 (multicast)
		• With hardware profile multicast max-limit lpm-entries 0 configured: 10,000 (IPv4), 1,900 (IPv6), and 0 (multicast)
		• With hardware profile ipv6 lpm-entries maximum 0 configured: 14,000 (IPv4), 0 (IPv6), and 2000 (multicast)
		• With hardware profile ipv6 lpm-entries maximum 4096 and hardware profile multicast max - limit lpm - entries 0 configured: 4000 (IPv4), 4096 (IPv6), and 0 (multicast)
		When you allocate the entire table for IPv4 or IPv6 LPM unicast routes, the other address family cannot be used
		64,000 (default system routing mode with system routing layer 3 scale)
	Nexus 9300-EX switches	206,000 (/64 prefix length); 1900 (non /64 prefix length)
	Nexus 9300-FX switches	628,000 / 560,000 (without / with urpf enabled) (default); 442,000 / 412,000 (without / with urpf enabled) (with system routing template - lpm - heavy mode)
	Nexus 9300-FX2 switches	294,000 / 265,000 (without / with urpf enabled) (default); 442,000 / 412,000 (with out / with urpf enabled) (with system routing template - lpm - heavy mode)
	Nexus 9300-GX switches	628,000 / 628,000 (without/with urpf enabled) (default); 442,000 / 412,000 (without / with urpf enabled) (with system routing template - lpm - heavy mode)
	Nexus 9300-FX3 switches	600,000
	Nexus 9500 switches	

Feature	Supported Platforms	Verified Limits
		20,000 (default system routing mode)
		4000 (max-host routing mode)
		80,000 with no IPv4 routes (64-bit ALPM routing mode)
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	FM-E: 176,000 (/64 prefix length); 3900 (non /64 prefix length)
		FM-E2: 235,000 (any prefix length)
		FM-G: 235,000
	Nexus 9600-R line cards	62,000 (Default system routing template)
	Nexus 9600-RX line cards	256,000 (Default system routing template)
IPv4 host routes (LPM heavy mode)	Nexus 9236C, 9272Q, and 92304QC switches	262,000
	Nexus 92160YC-X switches	650,000
	Nexus 9364C switches	262,000
	Nexus 9300-EX switches	786,000 / 720,000 (with out/with urpf enabled)
	Nexus 9300-FX switches	786,000 / 734,000 (with out/with urpf enabled)
	Nexus 9300-FX2/FX3/GX switches	786,000 / 734,000 (with out/with urpf enabled)
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	786,000
IPv6 host routes (LPM heavy mode)	Nexus 9364 switches	131,000
	Nexus 9300-EX switches	24,000 / 16,000 (with out/with urpf enabled) (protocol learned host)
	Nexus 9300-FX/FX2/FX3/GX switches	442,000 / 412,000 (with out/with urpf enabled) (protocol learned host)
	Nexus 9700-EX/FX line cards	FM-E: 32,000 (shared between IPv6 ND and protocol learned host)
		FM-E2: 235,000
		FM-G: 235,000
	Nexus N9K-X9716D-GX line card	235,000

Feature	Supported Platforms	Verified Limits
IPv4 LPM routes (LPM heavy mode)	Nexus 9236C, 9272Q, and 92304QC switches	262,000
	Nexus 92160YC-X switches	650,000
	Nexus 9364C switches	262,000
	Nexus 9300-EX switches	786,000 / 720,000 (with out/with urpf enabled)
	Nexus 9300-FX switches	786,000 / 734,000 (with out/with urpf enabled)
	Nexus 9300-FX2/GX switches	786,000 / 734,000 (with out/with urpf enabled)
	Nexus 9300-FX3 switches	786,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	786,000
IPv6 LPM routes (LPM heavy mode)	Nexus 9236C, 9272Q, and 92304QC switches	131,000 (/64 prefix length); 1900 (non /64 LPM scale)
	Nexus 92160YC-X switches	294,000 (/64 prefix length); 1900 (non /64 LPM scale)
	Nexus 9364C switches	131,000
	Nexus 9300-EX switches	353,000 / 324,000 (with out/with urpf enabled) (/64 prefix length); 1900 (non /64 prefix length)
	Nexus 9300-FX/FX2/GX switches	442,000 / 412,000 (with out/with urpf enabled)
	Nexus 9300-FX3 switches	442,000 / 412,000 (without / with urpf enabled) (protocol learned host)
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	FM-E: 235,000 (/64 prefix length); 3900 (non /64 prefix length)
		FM-E2: 235,000 (any prefix len)
		FM-G: 235,000
IPv4 host routes (dual-host mode)	Nexus 9364C switches	163,000
	Nexus 9300-EX/FX/FX2/FX3/GX switches	262,000
IPv6 host routes (dual-host mode)	Nexus 9364C switches	81,000
	Nexus 9300-EX/FX/FX2/FX3/GX switches	131,000

Feature		Supported Platforms	Verified Limits
IPv4 LPM routes (dual-host mode)	Nexus 9300-EX switches	6000	
	Nexus 9300-FX and 9364C switches	8000	
	Nexus 9300-FX2/GX switches	10,000	
		Nexus 9300-FX3 switches	7000
IPv6 LPM routes (dual-host mode)	Nexus 9300-EX/FX/FX3 switches, and 9364C	1900	
	Nexus 9300-FX2/GX switches	3900	
IPv4 LP	M routes (13-heavy mode)	Nexus 9600-RX line cards	1,800,000
IPv6 LP	M routes (13-heavy mode)	Nexus 9600-RX line cards	750,000
IPv4 ARP (dual-host mode)	Nexus 9364C and 9300-EX switches	64,000	
		Nexus 9300-FX/FX2/FX3/GX switches	98,000
IPv6 ND (dual-host mode)	Nexus 9364C and 9300-EX switches	64,000	
		Nexus 9300-FX/FX2/FX3/GX switches	98,000
IPv4 hos	st routes (internet-peering mode)	Nexus 9300-EX/FX2 switches	1 Million (protocol learned host)
Note The combined IPv4 and IPv6 route prefixes of internet-peer which was working in the internet-peering routing mode may not work forever because the global internet tables are growing. This occurs as hardware resource to accommodate IPv4 and IPv6 route prefixes do not change once the hardware/software is shipped. Global internet table prefix distribution of 750K IPv4 and 60K IPv6 has been verified and works in the internet-peering routing mode. This statement is applicable to Nexus 9300-EE and Nexus 9500 with X9700-EX/FX line cards.		Nexus 9300-FX/FX3 switches	1,256,000 (protocol learned host)
	which was working in the	Nexus 9300-GX/GX2 switches	2 Million (protocol learned)
	Nexus 9700-EX/FX and 9700-GX line cards	1 Million (protocol learned host)	

Feature		Supported Platforms	Verified Limits
IPv6 hos	t routes (internet-peering mode) The combined IPv4 and IPv6	Nexus 9300-EX switches	16,000 (Hash Table: Shared between IPv6 ND and protocol learned IPv6 host)
	route prefixes of internet-peer which was working in the internet-peering routing mode may not work forever because the global internet tables are growing. This occurs as	Nexus 9300-EX/FX2 switches	500,000 (protocol learned host)
		Nexus 9300-FX/FX3/GX/GX2 switches	628,224 (protocol learned)
		Nexus 9700-EX line cards	16,000 (Hash Table: Shared between IPv6 ND and protocol learned IPv6 host)
hardware resource to accommodate IPv4 and IPv6 route prefixes do not change once the hardware/software is shipped. Global internet table prefix distribution of 750K IPv4 and 60K IPv6 has been verified and works in the internet-peering routing mode. This statement is applicable to Nexus 9300-EX and Nexus 9500 with X9700-EX/FX line cards		Nexus 9700-FX and 9700-GX line cards	500,000 (protocol learned)
IPv4 LPN	M routes (internet-peering mode)	Nexus 9300-EX/FX2 switches	1 Million (protocol learned)
Note	The combined IPv4 and IPv6 route prefixes of internet-peer	Nexus 9300-FX switches	1,256,000 (protocol learned host)
	which was working in the internet-peering routing mode may not work forever because the global internet tables are growing. This occurs as hardware resource to accommodate IPv4 and IPv6 route prefixes do not change	Nexus 9300-FX3 switches, and Nexus 9700 GX line cards	1,800,000 (protocol learned) Note Nexus 9300-FX3 switches, and Nexus 9700 GX line cards also supports 200,000 IPv6 LPM routes along with 1,800,000 IPv4 LPM routes using 16-way ECMP.
	once the hardware/software is shipped. Global internet	Nexus 9300-GX/GX2 switches	2 Million (protocol learned)
	table prefix distribution of 750K IPv4 and 60K IPv6 has been verified and works in the internet-peering routing mode. The statement is applicable for Nexus 9300-EX and Nexus 9500 with X9700-EX FX line cards.	Nexus 9700-EX/FX line cards	1 Million (protocol learned)

Feature	Supported Platforms	Verified Limits
IPv6 LPM routes (internet-peering mode)	Nexus 9300-EX switches	500,000 (Prefix length 0-83) protocol learned
Note The combined IPv4 and IPv6 route prefixes of internet-peer		1900 (Prefix length /84-127)
which was working in the internet-peering routing mode	Nexus 9300-FX2 switches	500,000 (protocol learned)
may not work forever because the global internet tables are	Nexus 9300-FX/FX3/GX/GX2 switches	628,224 (protocol learned)
growing. This occurs as hardware resource to	Nexus 9700-EX line cards	500,000 (Prefix length 48-83) protocol learned
accommodate IPv4 and IPv6 route prefixes do not change		1900 (Prefix length /84-127)
once the hardware/software is shipped. Global internet table prefix distribution of 750K IPv4 and 60K IPv6 has been verified and works in the internet-peering routing	Nexus 9700-FX and 9700-GX line cards	500,000 (Prefix length 48-128) protocol learned
	Nexus 9500 switches with the FM-E2 fabric line cards	176,000 (Prefix length 0–47) protocol learned host
mode. The statement is applicable for Nexus 9300-EX and Nexus 9500 with X9700-EX/FX line cards.	Nexus 9500 switches with the FM-G fabric line cards	500,000
Routes (internet-peering mode)	Nexus 9600-R and 9600-RX line cards	1 Million ²¹
IPv4 routes (internet-peering mode)	Nexus 9600-R and 9600-RX line cards	852,000 ²²
IPv6 routes (internet-peering mode)	Nexus 9600-R line cards	$175,000^{23}$
Routes (internet-peering mode)	Nexus 9600-R line cards	852,000
IPv4 routes (internet-peering mode)	Nexus 9600-R line cards	781,000
IPv6 routes (internet-peering mode)	Nexus 9600-R line cards	71,000

Feature	Supported Platforms	Verified Limits
IPv4 ARP (internet peering mode)	Nexus 9300-EX switches and Nexus 9700-EX/FX and 9700-GX line cards	32,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP, and protocol learned IPv6 host)
	Nexus 9300-FX/FX2/GX switches	32,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP, and protocol learned IPv6 host) over L3 interface and 16,000 over a SVI/VLAN (as the upper limit of the dynamic learned MAC address in the "internet Peering" mode is 16,000
	Nexus 9300-GX switches	32,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP, and protocol learned IPv6 host) over L3 interface and 16,000 over a SVI/VLAN (as the upper limit of the dynamic learned MAC address in the "internet Peering" mode is 16,000
IPv6 ND (internet-peering mode)	Nexus 9300-EX switches and Nexus 9700-EX/FX line cards	16,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP, and protocol learned IPv6 host)
	Nexus 9300-FX2 switches	16,000 (Hash Table: Shared between IPv6 ND, IPv4 ARP)
	Nexus 9300-FX3 switches and N9K-X9716D-GX line card	32,000 over an L3 interface and 16384 over an SVI / VLAN (as the upper limit of the dynamically learned MAC address upper limit in "Internet Peering" mode is 16,384)
IS-ISv4 adjacencies (either L1, L2, or sum of L1 and L2 with default timers)	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	255
IS-ISv4 BFD sessions (with default timers)	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	255
IS-ISv4 routes	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	10,000
IS-ISv4 network type	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX line cards	Point to point, broadcast

Feature	Supported Platforms	Verified Limits
Groups with default timers (3s/10s) and multiple group optimizations. [There are 2 primary, one for IPv4 and the other for IPv6, and 7926 secondary]	X9636C-R/RX and X9636Q-R line cards	7928
Groups with aggressive timers (1s/3s) and multiple groups optimization. [There are 2 primary, one for IPv4 and the other for IPv6, and 7926 secondary] ²⁴	X9636C-R/RX and X9636Q-R line cards	7928
Groups per interface or I/ module	X9636C-R/RX and X9636Q-R line cards	Maximum 16 (Because 16 is the unique virtual MAC address limit)
OSPF/OSPFv3 LSA/LSDB size	Nexus 9600-R and 9600-RX line cards	250,000
	Nexus 9300-FX3 switches	100,000
OSPF/OSPFv3 areas	Nexus 9600-R and 9600-RX line cards	15
	Nexus 9300-FX3 switches and N9K-X9716D-GX line card	100
OSPFv2 neighbors	Nexus 9600-R, 9600-RX, N9K-X9716D-GX, and 9700-EX/FX line cards	1000
	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches	256
OSPFv3 neighbors	Nexus 9600-R, 9600-RX, N9K-X9716D-GX, and 9700-EX/FX line cards	1000
	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches	256
OSPF/OSPFv3 LSA/LSDB size	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	100,000
OSPF/OSPFv3 areas	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	100
Static routes	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	8000

Feature	Supported Platforms	Verified Limits
VRFs	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	1000
	Nexus 9600-R and 9600-RX line cards	3967
VRRP groups per interface or I/O module	Nexus 9364C, and 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	250
Policy-based routing (PBR)	,	
Configured sequences per policy	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	128
Next-hop addresses per policy	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	32
IPv4 ACEs (unidimensional)	Nexus 9300-EX/FX/FX2/FX3 switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	3582 (per network forwarding engine)
IPv6 ACEs (unidimensional)	Nexus 9300-EX/FX/FX2 switches	1792 (per network forwarding engine)
IPv4 and IPv6 ACEs	Nexus 9300-EX/FX/FX2 switches	1024 IPv4 + 128 IPv6
	Nexus 9700-EX/FX line cards	1024 IPv4
Interfaces with PBR policy	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus 9700-EX/FX line cards	512
	Nexus N9K-X9716D-GX line card	256
VRRPv3	,	
VRRPv3 groups per interface	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX /FX line cards	255
	Nexus N9K-X9716D-GX line card	250
VRRPv3 groups with default timers (1 s)	Nexus 9300-EX switches and Nexus 9700-EX/FX line cards	490
	Nexus 9300-FX/FX2/FX3 switches	255
	Nexus 9300-GX switches and Nexus 9700-GX line cards	250

Feature	Supported Platforms	Verified	Limits
VRRPv3 groups with relaxed timers (3 s)	Nexus 9300-EX switches and Nexus 9700-EX/FX line cards	490	
	Nexus 9300-FX/FX2/FX3 switches	255	
	Nexus 9300-GX switches and Nexus 9700-GX line cards	250	
Pathways with one VRRPv3 group with default timer (1 s)	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX line cards	489	
VRRPv3 groups and pathways combined	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX line cards	490	
	Nexus N9K-X9716D-GX line card	250	
ECMP			
ECMP Paths - IPv4 (internet-peering mode)	Nexus 9300-FX/FX3 switches	16	
	Nexus 9300-GX/GX2 switches	32	
		Note	Nexus 9300-GX/GX2 switches supports 2 Million routes (1,800,000 IPv4 + 200,000 IPv6) using 32-way ECMP.
ECMP Paths - IPv6 (internet-peering mode)	Nexus 9300-FX/FX3 switches	16	
	Nexus 9300-GX/GX2 switches	32	
		Note	Nexus 9300-GX/GX2 switches supports 2 Million routes (1,800,000 IPv4 + 200,000 IPv6) using 32-way ECMP.
ECMP Paths	Nexus 9300-EX/FX/FX2/FX3/FXP/GX/GX2 switches and Nexus 9504/9508 switches with -R/RX line cards	64	

¹⁷ If you have more than 490 groups, then only one group per SVI. SVIs cannot have a user defined MAC or any VRRP group with it.

¹⁸ If you have more than 490 groups, then only one group per SVI. SVIs cannot have a user defined MAC or any VRRP group with it.

The hash table is subject to collisions. Depending on the host route pattern, collisions might occur.

The hash table is subject to collisions. Depending on the host route pattern, collisions might occur.

²¹ Contains internet peering profile with additional IPv4 and IPv6 routes.

²² Internet profile with additional IPv4 routes (total of 914K routes consisting of IPv4 and 62K of IPv6)

²³ Internet profile with additional IPv6 routes (total of 871K routes consisting of IPv6 and 696K of IPv4)

²⁴ If the user has Multi-protocol configuration, user should configure appropriate CoPP policies to avoid any control plane traffic drops.



Note

With IPv6 scale, traffic loss could be there for a few seconds during switchover.

The maximum number of PBR next-hops based on 4 FM-E supported is 192 per slice of the forwarding engine



Note

- The IPv4/IPv6 host routes and the IPv4 multicast routes share the same hardware table. Limits are provided for both the default line card mode and the max host line card mode.
- The IPv4 and IPv6 unicast routes share the same hardware table. Limits are provided for both the default line card mode and the max host line card mode.
- High availability (graceful restart and stateful switchover) is not supported when unicast or multicast aggressive timers are configured at any scale.

Guidelines and Limitations for OSPF Verified Scalability Limits

- To achieve the highest scale, we recommend that you use a single OSPF instance instead of multiple instances.
- Each OSPFv2 and OSPFv3 scale value might vary when combined with other parameters.
- The graceful restart timeout value might be increased in multidimensional scenarios.

Table 20: PVLAN VXLAN Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
Primary VLANs	Nexus 9300-EX/FX/FX2/FX3 switches	16
Secondary VLANs	Nexus 9300-EX/FX/FX2/FX3 switches	20
Ports in community host mode	Nexus 9300-EX/FX/FX2/FX3 switches	40
Port in Isolated host mode	Nexus 9300-EX/FX/FX2/FX3 switches	40
Ports in isolated trunk mode	Nexus 9300-EX/FX/FX2/FX3 switches	40
Ports in promiscuous mode	Nexus 9300-EX/FX/FX2/FX3 switches	5
PVLANs allowed on a PVLAN port	Nexus 9300-EX/FX/FX2/FX3 switches	16

Table 21: VXLAN Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limits
VTEP Peers ²⁵	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9600-R, 9600-RX, 9700-EX/FX, and N9K-X9716D-GX line cards	512

Feature	Supported Platforms	Verified Limits	
Underlay multicast groups	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	512	
IGMP snooping over VXLAN			
VXLAN VLANs	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	1000	
Multi-Site			
26			
Asymmetric VNIs per peer	Nexus 9332C, 9364C, 9300-EX/FX/FX2/FX3/FXP switches and Nexus 9700-EX/FX/GX line cards	3900	
Number of Tunnel Encryption sessions	Nexus 9300, N9336C-FX2, N93240YC-FX2, N93360YC-FX2, N93216TC-FX2	128 ²⁷	
Number of BGWs per site for Secure VXLAN EVPN Multi-Site using CloudSec	N9336C-FX2, N93240YC-FX2, N93360YC-FX2, N93216TC-FX2, N9K-C9332D-GX2B switches	6 per 10 sites	
Number of sites	Nexus 9300-EX/FX/FX2/FX3/GX/GX2, 9332C, 9364C, 9500 switches and Nexus 9700-EX/FX/GX line cards	128	
Number of sites for Secure VXLAN EVPN Multi-Site using CloudSec	Nexus 9300-FX2/GX2 switches	10	
Number of sites for TRM	Nexus 9300-EX/FX/FX2/FX3/GX/GX2, 9332C, 9364C, switches and Nexus 9700-EX/FX/GX line cards	15 sites	
Number of BGWs per site ²⁸	Nexus 9332C and 9364C switches and Nexus 9700-EX/FX/GX line cards	4 (Anycast), 2(vPC)	
	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches	6 (Anycast), 2 (vPC)	
Number of BGWs per site with TRM enabled ²⁹	Nexus 9332C, 9364C, 9500 switches and Nexus 9700-EX/FX/GX line cards	2 (Anycast), 2 (vPC)	
	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches	6 (Anycast), 2 (vPC)	
Number of BGWs for TRM	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches, 9332C, 9364C switches and Nexus 9700-EX/FX/GX line cards	06 BGW	

Feature	Supported Platforms	Verified Limits
Number of Secure VXLAN EVPN Multi-Site using CloudSec sessions	Nexus 9300-FX2/GX2 switches	128 30
Multisite-PIP ECMP	Nexus 9300-FX2 switches	1000^{31}
VTEPs per Site	Nexus 9300-EX/FX/FX2/FX3 switches and Nexus 9700-EX/FX/GX line cards	254
Tenant Route Multicast Layer 3 Mode w	ith VXLAN BGP eVPN	
VXLAN Layer 2 VNI	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX/GX line cards	1000
VXLAN Layer 3 VNI/VRFs	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX/GX line cards	250
VTEP Peers	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX/GX line cards	254
Underlay Multicast Group (PIM ASM Underlay)	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX/GX line cards	512 ³²
Overlay Multicast Group (PIM ASM & PIM SSM)	Nexus 9300-FX/GX switches and Nexus 9700-FX/GX line cards	31200
	Nexus 9300-EX/FX2 and Nexus 9700-EX line card	7200^{33}
VXLAN Flood and Learn		
Virtual network identifiers (VNIs) or	Nexus 9600-R and 9600-RX line cards	2000
VXLAN-mapped VLANs	Nexus 9300-EX/FX/FX2/FX3/GX/GX2, Nexus 9700-EX/FX switches, and N9K-X9716D-GX line cards	3900
Underlay multicast groups	Nexus 9300-EX/FX/FX2/FX3 switches	512
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
Overlay MAC addresses	Nexus 9300-EX/FX switches	90,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
	Nexus 9300-FX2/FX3 switches	60,000
Remote VXLAN tunnel endpoints (VTEPs Multicast)	Nexus 9300-EX/FX/FX2/FX3, 9364C-EX switches	512
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	

Feature	Supported Platforms	Verified Limits
Ingress replication peers 34	Nexus 9300-EX/FX/FX2/FX3 switches	512
	Nexus N9K-X9716D-GX line card	
Ingress replication Layer 2 VNIs	Nexus 9300-EX/FX/FX2/FX3 switches	1000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
MAC addresses for ingress replication	Nexus 9300-EX/FX/FX2/FX3 switches	90,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	1000
Port VLAN translations under an interface	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	100
	Nexus 9300-EX/FX/FX2/FX3 switches	3967
Port VLAN translations in a switch	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	2000
	Nexus 9300-EX/FX/FX2/FX3 switches	24,000
Static MAC addresses pointing to a remote	Nexus 9300-EX/FX/FX2/FX3 switches	1000
VTEP	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
VXLAN VLANs per FEX port (host	Nexus 9300-FX3 switches	75
interface)	Nexus 93180YC-EX	75 ³⁵
Layer 2 routed VNIs for vPC-centralized	Nexus 9300-EX/FX/FX2/FX3 switches	450
gateway	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
IGMP groups	Nexus 9300-EX/FX/FX2/FX3 switches	8192
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
Port Multi-VLAN Mapping ³⁶	Nexus 9300-FX2/GX/GX2	510 ³⁷
	Nexus 9300-EX/FX	368 ³⁸
VXLAN BGP eVPN		
Layer 2 VNIs	Nexus 9600-R and 9600-RX line cards	2000
	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches, Nexus 9700-EX/FX and N9K-X9716D-GX line cards	3900 39

Feature	Supported Platforms	Verified Limits
Xconnect VLANs	Nexus 9332C, 9300-EX/FX/FX2/FX3/GX switches	40
SVI with Distributed Anycast Gateway;	Nexus 9300-EX switches	3900^{40}
Layer 2 VNI extended	Nexus 9300-FX/FX2/FX3/GX switches, and N9K-X9716D-GX line cards	3900
	Nexus 9700-EX/FX switches	1000
Layer 3 VNIs / VRFs ⁴¹	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches and N9K-X9716D-GX Layer 3 VNIs / VRFs	2000 ⁴²
	Nexus 9600-R and 9600-RX line cards	900
	Nexus 9700-EX/FX line cards	750
Underlay multicast groups	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	512
VTEPs	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9600-R, 9600-RX, and 9700-EX/FX and N9K-X9716D-GX line cards	512
MAC addresses	Nexus 9300-EX/FX/FX2/FX3/GX switches and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	90,000
Port VLAN translations under an interface	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	100
	Nexus 9300-EX/FX/FX2/FX3/GX switches	3967
Port VLAN translations in a switch	Nexus 9300-GX switches	2000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	
	Nexus 9300-EX/FX/FX2/FX3/GX switches	24,000

Feature	Supported Platforms	Verified Limits	
IPv4 host routes	Nexus 92348GC-X switches	16,000	
	Nexus 9300-EX switches	458,000	
	Nexus 9300-FX/FX2/FX3 and 9300-GX switches	471,000	
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	656,000	
	Nexus 9600-R and 9600-RX line cards	128,000	
IPv6 host routes	Nexus 9300-EX switches	24,000	
	Nexus 9300-FX/FX2/FX3/GX switches	265,000	
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	34,000	
	Nexus 9600-R and 9600-RX line cards	32,000	
Overlay IPv4 LPM routes	Nexus 9300-EX switches	458,000	
	Nexus 9300-FX/FX2/FX3/GX switches	471,000	
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	656,000	
Overlay IPv6 LPM routes	Nexus 9300-EX switches	$206,000^{43}$	
	Nexus 9300-FX/FX2/FX3/GX switches	265,000 ⁴⁴	
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	174,000 ⁴⁵	
VXLAN VLANs per FEX port (host interface)	Nexus 9300-FX3 switches	75	
IGMP groups	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	8192	
BGP sessions at BGW	Nexus 9300-EX/FX/FX2/FX3/GX switches	4000	
VXLAN BGP eVPN Ingress Replication			
Layer 2 VNIs	Nexus 9600-R and 9600-RX line cards	2000	
	Nexus 9300-EX/FX/FX2/FX3/GX/GX2, 9700-EX/FX switches and N9K-X9716D-GX line cards	3900	
Xconnect VLANs	Nexus 9300-EX/FX/FX2/FX3/GX switches	40	

Feature	Supported Platforms	Verified Limits
Selective Q-in-VNI with multiprovider tag	Nexus 93180YC-EX, 93180YC-FX, 9336C-FX2, and 9300-FX3 switches	4000 mappings, 10 provider VLANs; System wide: 48,000 mappings, 512 Provider VLANs
SVI with Distributed Anycast Gateway;	Nexus 9300-EX switches	2000^{46}
Layer 2 VNI extended	Nexus 9300-FX/FX2/FX3/GX switches	3900
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	1000
Layer 3 VNIs / VRFs ⁴⁷	Nexus 9300-EX/FX/FX2/FX3/GX/GX2 switches and N9K-X9716D-GX line cards	2000
	Nexus 9600-R and 9600-RX line cards	900
	Nexus 9700-EX/FX line cards	750
VTEPs	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	512
MAC addresses	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	90,000
IPv4 host routes	Nexus 9300-EX switches	458,000
	Nexus 9300-FX/FX2/FX3/GX switches	471,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	656,000
IPv6 host routes	Nexus 9300-EX switches	24,000
	Nexus 9300-FX/FX2 and 9300-GX switches	265,000
	Nexus 9300-FX3 switches	500,000
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	34,000
Overlay IPv4 LPM routes	Nexus 9300-EX switches	458,000
	Nexus 9300-FX/FX2/FX3/GX switches	471,500
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	65,6000

Feature	Supported Platforms	Verified Limits	
Overlay IPv6 LPM routes	Nexus 9300-EX switches	$206,000^{48}$	
	Nexus 9300-FX/FX2/FX3/9300-GX switches	265,000 ⁴⁹	
	Nexus 9700-EX/FX and N9K-X9716D-GX line cards	174,000 ⁵⁰	
VXLAN VLANs per FEX port (host interface)	Nexus 9300-FX3 switches	75	
IGMP groups	Nexus 9300-EX/FX/FX2/FX3/GX switches, and Nexus 9700-EX/FX and N9K-X9716D-GX line cards	8192	
VXLAN and IP-in-IP Tunneling			
IP-in-IP tunnels	Nexus 9300-FX2 switches	16	
VXLAN Static Tunnels			
VNIs	Nexus 9300-EX/FX/FX2/FX3/GX, and 9364C switches	100	
VRFs	Nexus 9300-EX/FX/FX2/FX3, and 9364C switches	100	
VTEP peers	Nexus 9300-EX/FX/FX2/FX3, and 9364C switches	254	
V4 routes	Nexus 9300-EX/FX/FX2/FX3/GX, and 9364C switches	10,000	

²⁵ In case of IR, each VNI can have a max of 64 peers.

All the other BGW numbers (number of supported L2VNIs, L3VNIs, MAC addresses, IP addresses, and so on) match the values supported on a generic VXLAN EVPN VTEP node.

Total number of Cloudsec Security Associations in hardware = 128 (M *N*L) where (M = no. of Cloudsec peers, N = no. of uplinks on each Cloudsec endpoint, L is number of border gateway nodes)

- Multi-Site enabled with TRM supported number of L2VNIs –1000 and L3VNIs –100. Maximum supported multicast underlay and overlay route is 8000. From Cisco NX-OS Release 10.2(3), Multi-Site enabled with TRM supported number of L3VNIs –250. Maximum supported multicast underlay and overlay route is 32,000 for Nexus 9700-FX/FX3/GX/GX2 and 8000 for Nexus 9700-EX/FX2 and N9K-C9508.
- Multi-Site enabled with TRM supported number of L2VNIs –1000 and L3VNIs –100. Maximum supported multicast underlay and overlay route is 8000. From Cisco NX-OS Release 10.2(3), Multi-Site enabled with TRM supported number of L3VNIs –250. Maximum supported multicast underlay and overlay route is 32,000 for Nexus 9700-FX/FX3/GX/GX2 and 8000 for Nexus 9700-EX/FX2 and N9K-C9508.
- Total number of Cloudsec Security Associations in hardware = 128 (M *N*L) where (M = no. of Cloudsec peers, N = no. of uplinks on each Cloudsec endpoint, L is number of border gateway nodes)
- Number of vrfs * number of sites = 1000
- VXLAN underlay and overlay multicast routes shares the same hardware table. Maximum Multicast routes is 8000 in the default mode. If you want more overlay route scale, reduce the underlay multicast control group.

- VXLAN underlay and overlay multicast routes shares the same hardware table. Maximum Multicast routes is 8000 in the default mode. If you want more overlay route scale, reduce the underlay multicast control group.
- In case of IR, each VNI can have a maximum number of 64 peers; 512 peers supported on 100 VNIs only.
- 35 This is the limit for the Cisco Nexus 93180YC-EX and other fiber based switches. All copper based 9300-EX switches are not applicable.
- ³⁶ Only one provider VLAN is supported.
- The maximum number of Layer-2 subinterfaces is based on the available entries allocated for ing-pacl-sb tcam region.
- ³⁸ Since Nexus 9300-EX and 9300-FX have only one slice, the maximum number of Layer-2 subinterfaces that can be created is lower than the limit for NExus 9300-FX2.
- Only the following 24 G platforms supports full scale of 3900 L2VNI N9K-C9364C, N9K-C93180LC-EX, N9K-C93360YC-FX3, N9k-C9332C, N9K-C93600CD-GX, N9K-C9348GC-FXP, N9K-C9336C-FX2, N9K-C9316D-GX, N9K-C93180YC-EX, N9K-C93180YC-FX, N9K-C93108TC-FX, N9K-C93108TC-EX, N9K-C9364C-GX, N9K-C93240YC-FX2, N9K-C93360YC-FX2, N9K-C93180YC-FX3, N9K-C93108TC-FX3P, N9K-C93216TC-FX2.
- Only 1900 SVI are supported if dual stack is used/IPv6 is used.
- ⁴¹ ECMP objects are not shared across multiple VRFs.
- Only the following 24 G platforms supports full scale of 2000 L3VNI N9K-C9364C, N9K-C93180LC-EX, N9K-C93360YC-FX3, N9k-C9332C, N9K-C93600CD-GX, N9K-C9348GC-FXP, N9K-C9336C-FX2, N9K-C9316D-GX, N9K-C93180YC-EX, N9K-C93180YC-FX, N9K-C93108TC-FX, N9K-C93108TC-EX, N9K-C9364C-GX, N9K-C93240YC-FX2, N9K-C93360YC-FX2, N9K-C93180YC-FX3, N9K-C93108TC-FX3P, N9K-C93216TC-FX2.
- 43 All /64 routes + 4000 for non /64 routes.
- 44 All /64 routes + 4000 for non /64 routes.
- 45 All /64 routes + 4000 for non /64 routes.
- Only 19.00 SVI are supported if dual stack is used/IPv6 is used.
- ⁴⁷ ECMP objects are not shared across multiple VRFs.
- 48 All /64 routes + 4000 for non /64 routes.
- 49 All /64 routes + 4000 for non /64 routes.
- 50 All /64 routes + 4000 for non /64 routes.

Table 22: Tetration Verified Scalability Limits (Unidimensional)

Feature	Supported Platforms	Verified Limit
TCAM size	Nexus 92160YC-X, 9300-EX/FX switches	1024 entries
	Nexus 92160YC-X switches	IPv4 –4 entries per rule (TCP, UDP, ICMP, and IP)
	Nexus 9300-EX/FX switches	IPv4 –2 entries per rule (ICMP and IP)
	Nexus 92160YC-X switches	IPv6 –8 entries per rule (4 entries per ICMP and IPv6 for a total of 8 entries)
	Nexus 9300-EX/FX switches	IPv6 –8 entries per rule (4 entries per ICMP and IPv6 for a total of 8 entries)
	Nexus 92160YC-X, 9300-EX/FX switches	24 entries out of 1000 is consumed for default.
TCAM	Nexus 92160YC-X switches	250 (IPv4) or 62 (IPv6)
	Nexus 9300-EX/FX switches	500 (IPv4) or 125 (IPv6)

The entire Cisco Tetration Analytics documentation set is available at the following URL: https://www.cisco.com/c/en/us/support/data-center-analytics/tetration-analytics/tsd-products-support-series-home.html

Verified Scalability Limits - Multidimensional

The tables in this section list the verified scalability limits for the Cisco Nexus 9508 switch with an X9636C-R, X9636C-RX, or X9636Q-R line card or a C9508-FM-R fabric module and Cisco Nexus 9504 with -R line cards for Cisco NX-OS Release 10.2(4)M. These limits are validated with a multidimensional configuration. The values provided in these tables focus on the scalability of all listed features at the same time.

Each number is the absolute maximum currently supported by this Cisco NX-OS release for the corresponding feature. If the hardware is capable of a higher scale, future software releases might increase this verified maximum limit. Results might differ from the values listed here when trying to achieve maximum scalability with multiple features enabled.



Attention

These numbers are not the maximum verified values if each feature is viewed in isolation. For these numbers, see the "Verified Scalability Limits" section.

Table 23: eBGP/IS-IS Profile Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
Number of 100G ports	288
ECMP	16-way (Upstream)
BGP neighbors	960
BGP IPv4 /32 unicast routes	30,000
BGP IPv4 VLSM unicast routes	18,000
BGP IPv6 /128 unicast routes	16,000
BGP IPv6 VLSM unicast routes	1000
IS-IS v2 neighbors	255
IS-IS v3 neighbors	255
IS-IS Layer 2 adjacency	16
IS-IS IPv4 /32 unicast routes	20,000
IS-IS IPv4 VLSM unicast routes	1000
IS-IS IPv6 /128 unicast routes	20,000
IS-IS IPv6 VLSM unicast routes	1000
BFD sessions	272
PIM neighbors	256

Feature	Verified Limits
ACL ACEs	15,000
	500
Sub-interfaces	712
SPAN sessions	1 local SPAN session
Multicast SSM	20,000

Table 24: iBGP/OSPF Profile Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
Number of 100G ports	180
Number of 40G ports	108
ECMP	8-way (Upstream)
BGP neighbors	8
BGP IPv4 VLSM unicast routes	40,000
BGP IPv6 VLSM unicast routes	10,000
OSPFv2 neighbors	108
OSPFv3 neighbors	30
OSPF IPv4 /32 unicast routes	100,000
OSPF IPv4 VLSM unicast routes	155,000
OSPFv3 IPv6 /128 unicast routes	1000
OSPFv3 IPv6 VLSM unicast routes	9000
BFD sessions	108
VRF	250
PIM neighbors	108
IPv4 (*,G) multicast routes	2000
IPv4 (S,G) multicast routes	10,000
ACL ACEs	500 (IPv4)
	500 (IPv6)
SPAN sessions	1 local SPAN session

Table 25: iBGP/EIGRP Profile Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
Number of 100G ports	180
Number of 40G ports	108
ECMP	16-way (Upstream)
BGP neighbors	8
BGP IPv4 VLSM unicast routes	40,000
BGP IPv6 VLSM unicast routes	10,000
EIGRP v4 neighbors	276
EIGRP v6 neighbors	276
EIGRP IPv4 /32 unicast routes	30,000
EIGRP IPv4 VLSM unicast routes	1000
EIGRP IPv6 /128 unicast routes	30,000
EIGRP IPv6 VLSM unicast routes	1000
BFD sessions	276
VRF	250
PIM neighbors	276
IPv4 (*,G) multicast routes	6000
IPv4 (S,G) multicast routes	16,000
ACL ACEs	500 (IPv4)
	500 (IPv6)
SPAN sessions	1 local SPAN session

Table 26: MPLS Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
MPLS L3VPN	3967
VPE	3967
PE nodes	3
PE routes	20,000
X9636C-RX line card: ACL scale-IPv4	95,000

Feature	Verified Limits
X9636C-RX line card: ACL scale-IPv6	20,000
HSRP, HSRP VIP	3967 each for v4 and v6
vPC uRPF	3967
Strict uRPF	Yes
VRF	3967
SVI	3967
Layer 3 VPN routes IP ECMP	2000
MPLS LSR ECMP	2000
VPNv4 routes	400,000
VPNv6 routes	90,000
EBGP neighbors	750

Table 27: Layer 2/Layer 3 Boundary Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
MAC addresses	19,000
vPC Port channels	46
ECMP	16-way (Upstream)
OSPFv2 neighbors	47
OSPFv3 neighbors	47
OSPF IPv4 /32 unicast routes	45,000
OSPF IPv4 VLSM unicast routes	1000
OSPF IPv6 /128 unicast routes	20,000
OSPF IPv6 VLSM unicast routes	1000
BFD sessions	49
VRF	250
VLAN	3750
SVI	3750
VRRP v4 groups	1996 VRRS / 4 VRRPv3

Feature	Verified Limits
VRRP v6 groups	1996 VRRS / 4 VRRPv3
HSRP IPv4	1743 Secondary groups / 7 Primary groups
HSRP IPv6	1743 Secondary groups / 7 Primary groups
PIM neighbors	396
IPv4 (*,G) multicast routes	3080
IPv4 (S,G) multicast routes	26,600
IGMP snooping database entries	6400
sFlow enabled interfaces	83
UDLD enabled interfaces	93
SPAN sessions	1 local SPAN session

Table 28: Segment Routing Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
VLAN	100
SVI	100
MAC entries	10,000
ARP entries	70
HSRPv4 VIPs	100
HSRpv6 VIPs	100
LACP	11
LACP members	4
eBGP IPv6 neighbors	9
eBGP IPv4 LU neighbors	9
IPv4 (LU) routes	6888
IPv4 (LU) paths	17,580
IPv6 routes	6663
IPv4 (LU) routes	17,338
SR ECMP	18 (dual-homed)

Feature	Verified Limits
MPLS HW entries	11,957

Table 29: VXLAN Profile Verified Scalability Limits (Multidimensional)

Feature	Verified Limits
Ports	16
ECMP	8-way (Upstream)
BGP neighbors	200
BGP EVPN Layer 2 VPN host routes	64,000
BGP IPv4 VLSM unicast routes or OSPF	10,000
BGP IPv6 VLSM unicast routes or OSPF	6000
BFD sessions	20
PIM neighbors	20
IPv4 (*, G) multicast routes (co-existing)	4000
IPv4 (S,G) multicast routes (co-existing)	2000
Layer 3 VNI	900
Layer 2 VNI	2000
Local VTEP	1
Remote VTEPs	256
VLAN	3600
SVI	900
MAC	90,000



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