

New and Changed Information

This chapter includes the new and changed features for the Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.4(x).

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Table 1: New and Changed Features

Feature	Description	Changed in Release	Where Documented
Class E in NX-OS Fabric	Added support for Security Group ACL with ESG on Class E IP addresses.	10.4(3)F	Guidelines and limitations for IP ACLs
MACsec	Added support for MACsec on Cisco Nexus 9364C-H1 switches.	10.4(3)F	Guidelines and limitations for MACsec
Security ACL	Added support for Security ACL on the Cisco Nexus 9364C-H1 switches.	10.4(3)F	Guidelines and limitations for IP ACLs
ACL/CoPP	Added support for ACL and CoPP on the Cisco Nexus 9364C-H1 switches.	10.4(3)F	Guidelines and limitations for IP ACLs CoPP configuration guidelines
Support flexible TCAM templates/enhancement	Added support for flexible TCAM configuration on the Cisco Nexus 9364C-H1 switches.	10.4(3)F	Guidelines and limitations for IP ACLs

Feature	Description	Changed in Release	Where Documented
TLS v1.3	Added Transport Layer Security protocol version 1.3 support for Cisco Nexus applications.	10.4(3)F	TLS Protocol Support Guidelines and limitations for RadSec Guidelines and limitations for LDAP 802.1X guidelines and limitations
QKD (Quantum Key Distribution) integration with SKIP on MACsec	Added support for QKD on Cisco Nexus 9000 Series Switches.	10.4(3)F	QKD integration with SKIP on MACsec
X.509 certificate based SSH Authorization using TACACS	Added support for SSH-based authorization of x509v3-certificates using TACACS+ server.	10.4(3)F	Guidelines and limitations for AAA Configure AAA SSH-Cert-Authorization on TACACS servers TACACS+ Guidelines and limitations for TACACS+ Configure X.509 Certificate-Based SSH authorization using TACACS server
Default route	Added support for configuring default route for ACL QoS.	10.4(2)F	Guidelines and limitations for IP ACLs Configuration examples for IP ACLs
Support flexible TCAM templates/enhancement	Added support for flexible TCAM configuration on the Cisco Nexus 93400LD-H1 switches.	10.4(2)F	Guidelines and limitations for IP ACLs
Security ACL	Added support for Security ACL on the Cisco Nexus 93400LD-H1 switches.	10.4(2)F	Guidelines and limitations for IP ACLs
MACsec	Added support for MACsec on Cisco Nexus 93400LD-H1, and 93108TC-FX3 switches.	10.4(2)F	Guidelines and limitations for MACsec

Feature	Description	Changed in Release	Where Documented
ACL/CoPP	Added support for ACL and CoPP ACL on Cisco Nexus 93400LD-H1, and 93108TC-FX3 switches.	10.4(2)F	CoPP configuration guidelines Guidelines and limitations for IP ACLs
CR multiline support	Added configuration replace feature support for LDAP.	10.4(2)F	Guidelines and limitations for LDAP
BGP support for TCP Authentication Option (TCP-AO)	Added support for TCP authentication option on Cisco Nexus 9000 platform switches.	10.4(2)F	Configure TCP authentication option
MACsec rate counter support on FX3 platforms	Added support for MACsec rate counter for "show macsec secy statistics command" and rate related OIDs in CISCO-SECY-EXT-MIB on Cisco Nexus 9300-FX3 switches.	10.4(2)F	Guidelines and limitations for MACsec
Flexible configuration of SSH to customize Ciphers, MACs, and Keytypes	Added CLI options to configure SSH Algorithm.	10.4(2)F	Configure legacy SSH algorithm SupportCustomizing SSH cryptographic algorithms
Certification based authentication for MACsec	Added EAP-TLS support to 802.1X Port-based Authentication for uplink ports where MACsec is required.	10.4(1)F	Prerequisites for 802.1x 802.1X guidelines and limitations Configure the EAP-TLS profile for 802.1x authentication 802.1X configuration verification commands Configure MACsec EAP
Support to redirect/deny 'all' packets using ePBR policy	Added new ACE **all** keyword to prioritize the IP/IPv6/MAC ACL rule over SUP rule.	10.4(1)F	Guidelines and limitations for IP ACLs Apply an IP ACL rule prioritization over SUP rule Guidelines for configuring MAC ACLs Prioritize a MAC ACL rule over a SUP rule

Feature	Description	Changed in Release	Where Documented
Radius over DTLS Support	Radius over DTLS protocol support is added. This protocol is for transporting RADIUS datagrams over a secure channel.	10.4(1)F	About RADIUS with DTLS Configure RADIUS with DTLS
AAA	Added support for AAA on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for AAA
RADIUS	Added support for RADIUS on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for RADIUS
TACACS+	Added support for TACACS+ on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for TACACS+
LDAP	Added support for LDAP on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for LDAP
MACsec	Added support for MACsec on Cisco Nexus 9348GC-FX3, 9348GC-FX3PH and 9332D-H2R switches	10.4(1)F	Guidelines and limitations for MACsec
Security ACL	Added support for Security ACL on the Cisco Nexus 9332D-H2R switches.	10.4(1)F	Guidelines and limitations for IP ACLs
ACL/CoPP	Added support for ACL and CoPP on the Cisco Nexus 9332D-H2R switches.	10.4(1)F	Guidelines and limitations for IP ACLs CoPP configuration guidelines
Support flexible TCAM templates/enhancement	Added support for flexible TCAM configuration on the Cisco Nexus 9332D-H2R switches.	10.4(1)F	Guidelines and limitations for IP ACLs

Feature	Description	Changed in Release	Where Documented
ACL Consistency Checker	Added support for ACL Consistency Checker on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for IP ACLs
ACL - Sup, CoPP	Added support for CoPP ACL on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	CoPP configuration guidelines
RACL with statistics	Added support for RACL (Ingress-IPv4/IPv6 and Egress-IPv4/IPv6) with statistics on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for IP ACLs
DHCP relay	Added support for DHCP relay on Cisco Nexus 9804 switches, and Cisco Nexus X98900CD-A and X9836DM-A line cards.	10.4(1)F	Guidelines and limitations for DHCP
CoPP Limit	Added CoPP Limit configuration for PTP interface on Cisco Nexus 9348GC-FX3	10.4(1)F	Changing CoPP policy limit

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