

New and changed information

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This table summarizes the new and changed features for the *Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide, Release 10.6(x)*.

Table 1: New and Changed Features

Feature	Description	Changed in Release	Where Documented
Undefined Policy "Permit by Default"	Administrators can change the default action to "permit," ensuring traffic continuity while configurations are being applied or updated.	10.6(3)F	Route policies and resetting BGP sessions
New HW templates for N9K-C9364C-H1, N9K-C9332D-H2R, and N9K-C93400LD-H1	Added support for **template-l3-host-heavy** on N9K-C9364C-H1, N9K-C9332D-H2R, and N9K-C93400LD-H1.	10.6(3)F	Guidelines and limitations for IPv6 Configure L3 host heavy template
IPv6 ND cache limit at the SVI	Added support to configure IPv6 ND cache limit at the SVI.	10.6(3)F	Guidelines and limitations for IPv6 Configure IPv6 ND cache limit at the SVI
Proxy ARP enhancement	Enhaces Proxy ARP capabilities to improve security, scalability, and operational flexibility in environments with Layer-2 isolation, VXLAN, and EVPN deployments.	10.6(3)F	Configuring local proxy ARP on SVIs

Feature	Description	Changed in Release	Where Documented
Layer 3 ECMP Dynamic Load Balancing (DLB)	Beginning with Cisco NX-OS Release 10.6(2n), the Cisco N9164E-NS4-O switch supports Layer 3 ECMP Dynamic Load Balancing (DLB) .	10.6(2n)	Dynamic Load Balancing feature in NX-OS releases
L3 Support (IPv4, IPv6)	Beginning with Cisco NX-OS Release 10.6(2n), Layer 3 IPv4 and IPv6 support is available on the Cisco N9164E-NS4-O switch.	10.6(2n)	Guidelines and limitations for IPv6 Guidelines and Limitations for IPv4
DLB on BGP Unnumbered Link Local IPv6 with WCMP.	Beginning with Cisco NX-OS Release 10.6(2)F, you can configure DLB on BGP Unnumbered Link Local IPv6 with WCMP.	10.6(2)F	Configure BGP Interface Peering via IPv6 Link-Local for IPv4 and IPv6 Address Families
Layer 3 Heavy Routing Template for CloudScale switches	Added support for the Layer 3 Heavy Routing Template, which reallocates hardware resources to maximize IPv4 and IPv6 route scale.	10.6(2)F	Layer 3 heavy routing template Guidelines and limitations for layer 3 heavy routing template Layer 3 heavy routing template scale limits Configure the layer 3 heavy routing template Verify layer 3 heavy routing template
Namespace-specific DNS resolution for third-party Linux applications in containers	Beginning with Cisco NX-OS Release 10.6(2)F, Cisco Nexus 9000 Series switches support namespace-specific DNS resolution for third-party Linux applications running in containers.	10.6(2)F	Guidelines and Limitations for DNS Clients

Feature	Description	Changed in Release	Where Documented
Unicast Routing/ L3 (IPv4 and IPv6)	Added support for the following features on N9324C-SE1U and N9348Y2C6D-SE1U: • OSPF • EIGRP • ISIS • RIP • VRF • ECMP, 8192 ECMP groups, 512-way ECMP • IP directed broadcast • uRPF • IPv6 • Static routing, PBR • IP unnumbered (non-SVI) • HSRP, VRRP	10.6(2)F	Guidelines and Limitations for RIP Guidelines and limitations for VRFs Guidelines and limitations for EIGRP Guidelines and limitations for OSPFv3 Guidelines and limitations for OSPFv2 Guidelines and limitations for basic and advanced BGP Configuring static routing Guidelines and limitations for HSRP Guidelines and limitations for VRRPv3 Guidelines and Limitations for IPv4 Guidelines and Limitations for PIM and PIM6
Policy-driven DLB on CloudScale switches	Added support for Policy-driven DLB mode on CloudScale switches.	10.6(2)F	Dynamic Load Balancing on CloudScale switches
DLB Static pinning support on N9364E-SG2 switches	Added support for DLB static pinning on Cisco N9364E-SG2-Q and N9364E-SG2-O switches.	10.6(2)F	Dynamic Load Balancing on Silicon One switches Configuration samples for Dynamic Load Balancing Verify the Dynamic Load Balancing configuration
New HW template to handle /128 host route	Added support for template-l3-host-heavy to handle /128 host routes.	10.6(2)F	Guidelines and limitations for IPv6 Configure L3 host heavy template
Hardware assisted IP directed broadcast	Added support for hardware assisted IP directed broadcast.	10.6(2)F	Guidelines and Limitations for IPv4 Configure IP directed broadcasts

Feature	Description	Changed in Release	Where Documented
NX-OS BGP Maximum-prefix [discard-extra-paths] feature support	Added support for NX-OS BGP Maximum-prefix [discard-extra-paths] feature.	10.6(2)F	Guidelines and limitations for basic and advanced BGP Configure Maximum Prefixes
Support for large BGP Communities over EVPN address family	Added support for BGP Large Communities over EVPN address family.	10.6(2)F	Guidelines and limitations for route policy manager About NX-OS BGP large communities
AI/ML License Enhancements (Adaptive routing)	Added support to utilize the end-to-end Adaptive Routing capability between qualified Cisco Nexus switches and NVIDIA® Spectrum-X SmartNICs.	10.6(1)F	Configure Dynamic Load Balancing
Support BGP Prefix Origin Validation State Extended Community when connected via eBGP.	Added support for signaling of BGP Prefix Origin Validation State Extended Community towards eBGP peers.	10.6(1)F	Resource Public Key Infrastructure (RPKI) Commands for marking incoming prefixes with RPKI validation state
Support for Breakout interfaces with DLB	Added support for breakout ports on N9364E-SG2 switches for the Dynamic Load Balancing feature.	10.6(1)F	Guidelines and limitations for Dynamic Load Balancing on Silicon One switches Configure Dynamic Load Balancing on Silicon One switches
Support for IPv4 and IPv6 unicast routing, non SVI IP unnumbered interface, and directed broadcast	Added support for IPv4 ans IPv6 unicast routing, non SVI IP unnumbered interface, and directed broadcast on N9336C-SE1 switches.	10.6(1)F	Guidelines and Limitations for IPv4 Guidelines and limitations for IPv6
Support for BGP, OSPFv2, OSPFv3, ISIS, PBR, and ECMP	Added support for BGP, OSPFv2, OSPFv3, ISIS, PBR and ECMP on N9336C-SE1 switches.	10.6(1)F	Guidelines and limitations for basic and advanced BGP Guidelines and limitations for OSPFv2 Guidelines and limitations for OSPFv3 Guidelines and limitations for IS-IS Guidelines and limitations for policy-based routing

Feature	Description	Changed in Release	Where Documented
Support for URPF, HSRP, user-defined MAC address, vPC, and vPC peer gateway	Added support for URPF, HSRP, user-defined MAC address, vPC, and vPC peer gateway on N9336C-SE1 switches.	10.6(1)F	Guidelines and limitations for HSRP

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