



New and Changed Information

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This table summarizes the new and changed features for the *Cisco Nexus 3000 Series NX-OS Programmability Guide, Release 7.x* and where they are documented.

Table 1: New and Changed Features

Feature	Description	Changed in Release	Where Documented
Model-Driven Telemetry	Enhanced show telemetry control database sensor-paths to show details about encoding, collection, transport, and streaming.	7.0(3)I7(7)	Displaying Telemetry Configuration and Statistics
XMLIN	Support for converting NX-OS CLI commands to Network Configuration format is documented.	7.0(3)I7(4)	Converting CLI Commands to Network Configuration Format
XML Management Interface	Support for managing the Cisco Nexus 3000 switches with an XML-based tool through the XML-based Network Configuration Protocol (NETCONF) is documented.	7.0(3)I7(4)	XML Management Interface
JSON-RPC as an NX-API input request format	JSON-RPC is now an accepted NX-API input request format.	7.0(3)I7(4)	NX-API CLI

Feature	Description	Changed in Release	Where Documented
rollback NX-API request element	The rollback NX-API request element is now available in XML, JSON and JSON-RPC input request formats.	7.0(3)I7(4)	NX-API CLI
Puppet support for Cisco Nexus 3500 devices.	Added Puppet support for Cisco Nexus 3500 devices.	NX-OS 7.0(3)I7(2)	Puppet Prerequisites
Chef support for Cisco Nexus 3500 devices.	Added Chef support for Cisco Nexus 3500 devices.	NX-OS 7.0(3)I7(2)	Prerequisites for Chef.
Guest Shell support for Cisco Nexus 3500 devices.	Added Guest Shell support for Cisco Nexus 3500 devices.	NX-OS 7.0(3)I7(1)	About the Guest Shell
Export rootfs of Guest Shell onto multiple devices.	Support to export a specific Guest Shell rootfs and deploy it onto multiple devices.	7.0(3)I7(1)	Replicating the Guest Shell
Telemetry support for UDP and secure UDP (DTLS) protocols	Added telemetry support for UDP and secure UDP (DTLS) protocols	7.0(3)I7(1)	Telemetry Components and Process
Authentication with self signed SSL certificate	Added support for authentication with self signed SSL certificate.	7.0(3)I7(1)	Guidelines and Limitations for Telemetry
Telemetry VRF Support	Added telemetry VRF support.	7.0(3)I7(1)	Telemetry VRF Support
Telemetry Compression for gRPC Transport	Added support for telemetry compression for gRPC transport.	7.0(3)I7(1)	Telemetry Compression for gRPC Transport
Model-Driven Telemetry	Added support for telemetry.	7.0(3)I7(1)	Model-Driven Telemetry
NX-SDK	NX-SDK (C++ abstraction/plugin library layer) available.	7.0(3)I7(1)	About the NX-SDK
NX-OS Programmable Interface Component RPM packages	NX-OS Programmable Interface Component RPM packages included in the NX-OS image.	7.0(3)I7(1)	About the Component RPM Packages
Dynamic Logging	Users can now update configurations without restarting the switch.	7.0(3)I6(1)	Dynamic Logger

Feature	Description	Changed in Release	Where Documented
Guest Shell	Version updated from 2.1 to 2.2. Guest shell now includes the following features: <ul style="list-style-type: none"> • User accounts will have the same name as the one used to log into the switch, • The dohost utility will send the logged-in user name over the NX-API connection, • A network administrator can configure non-administrative accounts within the guest shell. 	7.0(3)I5(2)	Guest Shell
NX-API Developer Sandbox	The Sandbox now supports the generation of YANG and NX-API REST payloads.	7.0(3)I5(1)	NX-API Developer Sandbox
Model-Driven Programmability	Data modeling provides a programmatic and standards-based method of writing configurations to the network device.	7.0(3)I5(1)	Model-Driven Programmability
XML Management Interface	Added the use of XML Management Interface to configure devices.	7.0(3)I4(1)	Replaced in a later release by Model-Driven Programmability
NX-API REST	Added support for the Cisco Nexus 3132Q-XL, 3172PQ-XL, and 3172TQ-XL switches.	7.0(3)I2(2)	NX-API REST
ISO	The ISO image is a bootable Wind River 5 environment that includes the necessary tools, libraries, and headers to build and RPM-package third-party applications to run natively on a Cisco Nexus switch.	7.0(3)I2(1)	Nexus Application Development - ISO

Feature	Description	Changed in Release	Where Documented
Puppet	The Puppet software package, developed by Puppet Labs, is an open source automation toolset for managing servers and other resources by enforcing device states, such as configuration settings.	7.0(3)i2(1)	Puppet Agent
Third-Party Applications	Open source applications added.	7.0(3)i2(1)	Third-Party Applications
Guest Shell 2.0	Updated to Guest Shell 2.0	7.0(3)i2(1)	Guest Shell
iPXE	Open source network boot firmware.	7.0(3)i2(1)	iPXE
Kernel Stack	Uses well known Linux APIs to manage the routes and front panel ports.	7.0(3)i2(1)	Kernel Stack
Broadcom Shell	The Cisco Nexus 3000 Series device front panel and fabric module line cards contain Broadcom Network Forwarding Engines (NFE). The number of NFEs varies depending upon the specific model of the front panel line card (LC) or the fabric module (FM).	7.0(3)i2(1)	Broadcom Shell
No updates since release 6.x		7.0(3)I1(1)	