Cisco NX-OS Release Notes, Release 5.2(4.lisp-r8-44)

Date: April 18, 2013
Part Number: OL-29576-01

These release notes support Cisco NX-OS Release 5.2(4.lisp-r8-44) and are updated as needed.

For information about all features included in Cisco NX-OS software, see the Cisco NX-OS documentation that is available at the following URL:

Note
Cisco NX-OS Release 5.2(4.lisp-r8-44) is an Engineering Special release intended only for trial deployments on LISP nodes and is not intended nor recommended for general production deployments. The deployment guidelines documented in the Caveats section of these release notes must be followed strictly.

Table 1 shows the online change history for this document.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Revision</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
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<td>OL-29576-01</td>
<td>A0</td>
<td>April 18, 2013</td>
<td>Created release notes for Release 5.2(4.lisp-r8-44)</td>
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Introduction

Cisco NX-OS Release 5.2(4.lisp-r8-44) is based on Cisco NX-OS Release 5.2(4). This release is intended exclusively for the deployment of the Locator/ID Separation Protocol (LISP) functionality on the hardware that is listed in the “Supported Device Hardware” section.

System Requirements

This section includes the following topics:
- Hardware Supported, page 2
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Hardware Supported

The Cisco NX-OS software supports the Cisco Nexus 7000 Series chassis. You can find detailed information about supported hardware in the Cisco Nexus 7000 Series Hardware Installation and Reference Guide.

Supported Device Hardware

Cisco NX-OS Release 5.2(4.lisp-r8-44) supports the following Cisco Nexus 7000 Series hardware:
- Cisco Nexus 7010 chassis, N7K-C7010
- Cisco Nexus 7018 chassis, N7K-C7018
- Supervisor module, N7K-SUP1
- Fabric module, Cisco Nexus 7000 Series 10-slot, N7K-C7010-FAB-1
- Fabric module, Cisco Nexus 7000 Series 18-slot, N7K-C7018-FAB-1
- System fan tray for the Cisco Nexus 7010 chassis, N7K-C7010-FAN-S
- Fabric fan tray for the Cisco Nexus 7010 chassis, N7K-C7010-FAN-F
- Fan tray for the Cisco Nexus 7018 chassis, N7K-C7018-FAN
- 6-kW AC power supply unit, N7K-AC-6.0KW
- 7.5-kW AC power supply unit, N7K-AC-7.5KW-INT and N7K-AC-7.5KW-US
- 32-port 10-Gigabit Ethernet SFP+ I/O module, N7K-M132XP-12
Note

The 32-port 10-Gigabit Ethernet SFP+ I/O module is the only Cisco Nexus 7000 Series I/O module that Cisco NX-OS Release 5.2(4.lisp-r8-44) supports.

Software Images

Table 2 lists the software images available in Cisco NX-OS Release 5.2(4.lisp-r8-44). Use the correct image for the supported hardware.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Software Images</th>
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<td><strong>Image Name</strong></td>
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<td>dino-lisp-r8-44-titanium-d1.5.2.4.67.gbin</td>
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</table>

EPLD Image

The 32-port 10-Gigabit Ethernet SFP+ I/O module requires the following EPLD image:

n7000-s1-epld.5.0.1.13.img

If you previously installed this EPLD image, you do not need to update it to run Cisco NX-OS Release 5.2(4.lisp-r8-44).

New Software Features

This section describes new and changed software features and includes the following topics:

- New Features in Cisco NX-OS Release 5.2(4.lisp-r8-44), page 3

See the “LISP Documentation” section on page 4 for details about supporting documentation for these features.

New Features in Cisco NX-OS Release 5.2(4.lisp-r8-44)

This section lists the new software features in Cisco NX-OS Release 5.2(4.lisp-r8-44).

LISP ESM Multi-Hop Host Mobility Support

The LISP ESM Multi-Hop Host Mobility feature includes the following support:

When LISP Extended Subnet Mode (ESM) host mobility is being deployed, this feature enables an IP host (virtual or physical) to migrate (move) between data centers (or LISP sites) when the subnet or VLAN to which the host migrates is not directly connected to the site LISP xTR.
LISP Documentation

For additional information on the features mentioned in this section, see the Cisco Nexus 7000 Series NX-OS LISP Configuration Guide.

For information about commands that support the Cisco NX-OS implementation of LISP in this release, see the Cisco Nexus 7000 Series NX-OS LISP Command Reference.

Internet Drafts Support

The Cisco NX-OS implementation of LISP supports the following Internet Drafts:

- RFC 6830 - The Locator/ID Separation Protocol (LISP)
- RFC 6831 - The Locator/ID Separation Protocol (LISP) for Multicast Environments
- RFC 6832 - Interworking between Locator/ID Separation Protocol (LISP) and Non-LISP Sites
- RFC 6833 - Locator/ID Separation Protocol (LISP) Map-Server Interface
- RFC 6834 - Locator/ID Separation Protocol (LISP) Map-Versioning
- RFC 6835 - The Locator/ID Separation Protocol Internet Groper (LIG)
- RFC 6836 - Locator/ID Separation Protocol Alternative Logical Topology (LISP+ALT)

Related Documentation

Cisco NX-OS documentation is available at the following URL:


The Release Notes for upgrading the FPGA/EPLD is available at the following URL:


The following are related Cisco NX-OS documents:

Release Notes

Cisco Nexus 7000 Series NX-OS Release Notes, Release 5.x

NX-OS Configuration Guides

Cisco Nexus 7000 Series NX-OS Virtual Device Context Quick Start
Cisco Nexus 7000 Series OTV Quick Start Guide
Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Layer 2 Switching Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS MPLS Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS Security Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS OTV Configuration Guide
Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS FabricPath Configuration Guide
Cisco Nexus 7000 Series NX-OS Software Upgrade and Downgrade Guide, Release 5.x
Cisco Nexus 7000 Series NX-OS LISP Configuration Guide
Cisco NX-OS Licensing Guide
Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide
Cisco Nexus 7000 Series NX-OS System Management Configuration Guide, Release 5.x
Cisco NX-OS FCoE Configuration Guide
Configuring the Cisco Nexus 2000 Series Fabric Extender
Cisco NX-OS XML Management Interface User Guide
Cisco NX-OS System Messages Reference
Cisco Nexus 7000 Series NX-OS MIB Quick Reference

**NX-OS Command References**

Cisco Nexus 7000 Series NX-OS Command Reference Master Index
Cisco Nexus 7000 Series NX-OS Fundamentals Command Reference
Cisco Nexus 7000 Series NX-OS Interfaces Command Reference
Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference
Cisco Nexus 7000 Series NX-OS Quality of Service Command Reference
Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference
Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference
Cisco Nexus 7000 Series NX-OS MPLS Command Reference
Cisco Nexus 7000 Series NX-OS Security Command Reference
Cisco Nexus 7000 Series NX-OS OTV Command Reference
Cisco Nexus 7000 Series NX-OS Virtual Device Context Command Reference
Cisco Nexus 7000 Series NX-OS FabricPath Command Reference
Cisco Nexus 7000 Series NX-OS System Management Command Reference
Cisco Nexus 7000 Series NX-OS LISP Command Reference
Cisco NX-OS FCoE Command Reference

**Other Software Document**

Cisco Nexus 7000 Series NX-OS Troubleshooting Guide
Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What’s New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:


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