



Cross-Platform Release Notes for Cisco IOS Release 15.2XB

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Cisco IOS Release 15.2(4)XB11

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These release notes support Cisco IOS Release 15.2XB up to and including Cisco IOS Release 15.2(4)XB11. These release notes are based on Cisco IOS Release 15.2M&T and are updated as needed. Use these release notes with the [Cross-Platform Release Notes for Cisco IOS Release 15.2M&T](#).



Note

Cisco IOS Release 15.2(4)XB11, continues the LISP “XB” release numbering in order to indicate the LISP feature progression. The previous LISP “XB” release was Cisco IOS Release 15.1(4)XB8a. See the [Cross-Platform Release Notes for Cisco IOS Release 15.1XB](#) for more information.

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Introduction

Cisco IOS Release 15.2XB is based on Cisco IOS Release 15.2M&T. Many features and hardware that are supported in this software have been previously released to customers on other software releases. This release is intended exclusively for the deployment of the Locator/ID Separation Protocol (LISP) functionality on the routers that are listed in the [“Supported Hardware” section on page 2](#) section.

For information on new features and Cisco IOS commands that are supported by Release 15.2XB, see the [“New and Changed Information” section on page 2](#).

System Requirements

This section describes the system requirements for Cisco IOS Release 15.2XB.

Supported Hardware

Cisco IOS Release 15.2XB supports the following Cisco routers:

- Cisco 800 (Cisco 819, Cisco 870 series, Cisco 880 series, Cisco 890 series)
- Cisco 1800 (Cisco 1801, Cisco 1802, Cisco 1803, Cisco 1805, Cisco 1811, Cisco 1812, Cisco 1841, Cisco 1861)
- Cisco 1900 (Cisco 1921, Cisco 1941/1941W)
- Cisco 2800 (Cisco 2801, Cisco 2811, Cisco 2821, Cisco 2851)
- Cisco 2900 (Cisco 2901, Cisco 2911, Cisco 2921, Cisco 2951)
- Cisco 3800 (Cisco 3825, Cisco 3845)
- Cisco 3900 (Cisco 3925, Cisco 3945, Cisco 3925E, 3945E)
- Cisco 7200 (Cisco 7201, Cisco 7204VXR, Cisco 7206VXR)

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.2XB and contains the following subsections.

- [New Hardware Features in Cisco IOS Release 15.2\(4\)XB11](#)
- [New Software Features in Cisco IOS Release 15.2\(4\)XB11](#)
- [New Hardware Features in Cisco IOS Release 15.2\(4\)XB10](#)
- [New Software Features in Cisco IOS Release 15.2\(4\)XB10](#)
- [New Hardware Features in Cisco IOS Release 15.2\(4\)XB9](#)
- [New Software Features in Cisco IOS Release 15.2\(4\)XB9](#)

**Note**

These release notes are cumulative and list only features that are new to Cisco IOS Release 15.2XB. The parent release for Cisco IOS Release 15.2XB is Cisco IOS Release 15.2M&T. For information about inherited features, refer to Cisco.com or Cisco Feature Navigator. For Cisco.com, either go to [Cisco.com](http://www.cisco.com) and select the appropriate software release under Products and Service and Cisco IOS Software or go to <http://www.cisco.com/cisco/web/psa/default.html> and select the appropriate software release under Cisco IOS Software and Release Notes. You can use the Cisco Feature Navigator tool at <http://www.cisco.com/go/fn>.

New Hardware Features in Cisco IOS Release 15.2(4)XB11

There are no new hardware features in Cisco IOS Release 15.2(4)XB11.

New Software Features in Cisco IOS Release 15.2(4)XB11

This section describes new and changed software features in Cisco IOS Release 15.2(4)XB11.

- [LISP ESM Multi-Hop Host Mobility Support](#)

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.

New Hardware Features in Cisco IOS Release 15.2(4)XB10

There are no new hardware features in Cisco IOS Release 15.2(4)XB10.

New Software Features in Cisco IOS Release 15.2(4)XB10

This section describes new and changed software features in Cisco IOS Release 15.2(4)XB10.

- [LISP Extended Subnet Mode Mobility Support](#)
- [SHA-2 Support](#)

LISP Extended Subnet Mode Mobility Support

The LISP Extended Subnet Mode (LISP ESM) feature enables an IP host (virtual or physical) to migrate (move) between data centers where the subnet or VLAN is extended between these data centers using OTV or other L2 extension mechanisms.

SHA-2 Support

The SHA-2 feature enables the configuration of the SHA-2 cryptographic hash function for use in LISP Map-Register and Map-Notify messages. Prior releases only included the SHA-1 cryptographic hash function for these messages.

New Hardware Features in Cisco IOS Release 15.2(4)XB9

There are no new hardware features in Cisco IOS Release 15.2(4)XB9.

New Software Features in Cisco IOS Release 15.2(4)XB9

This section describes new and changed software features in Cisco IOS Release 15.2(4)XB9.

- [LISP Across Subnet Mode Mobility Support](#)
- [LISP-Security Support](#)

LISP Across Subnet Mode Mobility Support

The LISP Across Subnet Mode (ASM) feature enables an IP host (virtual or physical) to migrate from one IP subnet to another IP subnet while retaining its original IP address.

LISP-Security Support

The LISP-Security (LISP-Sec) feature enables a set of security mechanisms that provide origin authentication, integrity, and anti-replay protection for Map-Request/Map-Reply mapping resolution exchanges.

Related Documentation

The following section describes the documentation available for Cisco IOS Release 15XB.

Release-Specific Documents

The following documents are specific to Cisco IOS Release 15XB:

- [Cisco IOS LISP Command Reference for Cisco IOS Release 15.1\(4\)XB6](#) at:
http://www.cisco.com/en/US/docs/ios/lisp/command/reference/LISP_command_reference_1514xb6-only.pdf
- Other LISP related documents can be found at:
http://lisp.cisco.com/lisp_down.html

**Note**

If you do not find the answers to your questions or issues in the documentation that we have provided, please use the lisp-support@cisco.com mailing list.

Notices

The following notices pertain to this software license.

OpenSSL/Open SSL Project

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

License Issues

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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The implementation was written so as to conform with Netscapes SSL.

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Obtaining Documentation and Submitting a Service Request

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This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section on page 4.

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