Cisco Location/ID Separation Protocol Early Deployment Software Releases

PB598556

LISP Overview

Cisco Locator/ID Separation Protocol (LISP) is new routing architecture that enables enterprises and service providers to simplify multihoming routing, facilitate scalable any-to-any WAN connectivity, support data center virtual machine mobility, and reduce operational complexities.

The current IP routing and addressing architecture uses a single numbering space, the IP address, to simultaneously express two functions about a device: its identity and how it is attached to the network.

The LISP routing architecture design creates a new paradigm by splitting the device identity, known as an endpoint identifier (EID), and its location, known as its routing locator (RLOC), into two different numbering spaces. Splitting EID and RLOC functions yields several advantages, including improved scalability of the routing system through greater aggregation of RLOCs, optimized IP routing for both IPv4 and IPv6 hosts, and support for advanced IP routing requirements such as multihoming and IP mobility. LISP can be gradually introduced into an existing IP network without affecting the network endpoints or hosts.

LISP is a Cisco innovation that is being promoted as an open standard. Through its participation in standards bodies such as the IETF LISP Working Group, Cisco is committed to the development of the LISP architecture.

Cisco LISP Availability and Ordering Information

LISP capabilities are currently supported on a range of Cisco routing and switching platforms through Early Deployment (ED) and Early Field Trial (EFT) software releases. These LISP ED and EFT releases are intended only for trial deployments on LISP nodes and are not intended nor recommended for general production deployments.

These LISP ED and EFT images are available through online download only. They are not orderable through the Dynamic Configuration Tool (DCT) and are not visible in the Cisco pricing tool.

Customers who wish to perform a LISP trial can download the required LISP-enabled ED and EFT software by clicking the appropriate link in Table 1. In addition, Cisco reserves the right to make these LISP ED and EFT software images obsolete at any time.

Table 1. LISP Support per Cisco Platform and Link for LISP Image Download

Cisco Platform	Supported LISP Functionality	Early Deployment Software or Early Field Trial Release with LISP Functionality—Click Link for Download
Cisco Integrated Services Routers (ISRs) and ISR second-generation (G2)	LISP Router/Proxy LISP Router/Map Services	Cisco IOS® Software 15.1(1)XB2
Cisco ASR 1000 Series	LISP Router/Proxy LISP Router/Map Services	Cisco IOS XE 2.5.1XB
Cisco Nexus 7000 Series	LISP Router/Proxy LISP Router	NX-OS 5.0(1.13) System Software NX-OS 5.0(1.13) Kickstart Software NX-OS 5.0(1.13) EPLD Image
Cisco UCS C200 M1 High-Density Rack-Mount Server	Map Services	NX-OS 5.0(1.13)

For more information on how to enable LISP on NX-OS using the different images, please refer to the NX-OS 5.0(1.13) release notes.

Cisco Support

When deployed in a LISP environment, only the LISP ED and EFT software releases and platforms listed in Table 1 are supported by the Cisco Technical Assistance Center (TAC). However, Cisco TAC will not provide support for LISP ED and EFT software deployed in non-LISP environments.

For More Information

For more information about LISP software releases, platform support, or software configurations, please read the following documentation:

Release Notes

- IOS 15.1(1)XB2 Release Notes
- IOS-XE 2.5.1XB Release Notes
- NX-OS 5.0(1.13) Release Notes

Configuration Guidance

- IOS LISP Command Reference
- IOS/NX-OS Configuration Guide
- NX-OS 5.0(1.13) LISP Command Reference

For general LIPS solution questions including deployment guidance, contact your local Cisco account representative or send an email to lisp-support@external.cisco.com.

A public LISP network is available now. Visit http://lisp4.cisco.com to use the Cisco LISP network and read more about supported features and functionality.

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