LISP Clear Commands

clear ip lisp map-cache

To clear the Locator/ID Separation Protocol (LISP) map cache, use the **clear ip lisp map-cache** command in privilege EXEC mode.

clear ip lisp map-cache [*EID-prefix/prefix-length*]

Syntax Description

EID-prefix/prefix-length	(Optional) IPv4 endpoint identifier (EID) prefix to clear from LISP map cache

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)XB	This command was introduced.
Cisco IOS XE Release XA	This command was integrated into Cisco IOS XE Release 2.5.1XA.
Cisco IOS XE Release 3.3.0S	This command was integrated into Cisco IOS XE Release 3.3.0S.
15.1(4)M	This command was integrated into Cisco IOS Release15.1(4)M.

Usage Guidelines

The **clear ip lisp map-cache** command removes all IPv4 dynamic LISP map-cache entries stored by the router. When an optional IPv4 EID prefix is added to the command, only that IPv4 EID prefix is cleared from the LISP map-cache.

Examples

The following example shows how to display all LISP map-cache entries and then clear the LISP map cache for the IPv4 EID prefix 172.16.10.0/24.

```
Router# show ip lisp map-cache
LISP IPv4 Mapping Cache, 2 entries
0.0.0.0/0, uptime: 01:18:22, expires: never, via static
153.16.10.0/24, uptime: 00:00:04, expires: 23:59:55, via map-reply, complete
Locator                   Uptime    State      Pri/Wgt
172.16.10.0/24            00:00:04  up           1/50
192.168.65.94             00:00:04  up           1/50
2001:468:D01:9C::80DF:9C86  00:00:04  up           2/100
Router# clear ip lisp map-cache 172.16.10.0/24
Router# show ip lisp map-cache
LISP IPv4 Mapping Cache, 1 entries
0.0.0.0/0, uptime: 01:18:42, expires: never, via static
Router#
```

Related Commands

Command	Description
show ip lisp map-cache	Displays current dynamic and static IPv4 EID-to-RLOC map-cache entries.

clear ip lisp route-import

To clear the current IPv4 routing information base (RIB) routes imported into Locator ID Separation Protocol (LISP), use the **clear ip lisp route-import** command in privilege EXEC mode.

clear ip lisp route-import [{**eid-table vrf** *vrf-name* | **instance-id** *iid*}]

Syntax Description

eid-table vrf *vrf-name*	(Optional) Clear the referenced EID table.
instance-id *iid*	(Optional) Clears the referenced instance ID.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(4)XB5	This command was introduced.
15.2(3)T	This command was integrated into Cisco IOS Release 15.2(3)T.
Cisco IOS XE Release 3.6S	This command was integrated into Cisco IOS XE Release 3.6S.

Usage Guidelines

The **clear ip lisp route-import** command operates differently from other clear commands. Most clear commands remove the respective entries or counters only.

However, when the **clear ip lisp route-import** command is entered, all route-import routes are marked stale and then re-evaluated according to the **ip lisp route-import** command and remaining stale routes are removed. Thus, entering the **clear ip lisp route-import** command may or may not result in changes to the imported routes. The **show ip lisp route-import** command provides a listing of the current route imports.

To restrict the clear functions to a specific EID table, use the **eid-table vrf** *vrf-name* keyword and argument. To restrict the clear functions to a specific LISP instance ID, use the **instance-id** *iid* keyword and argument.

Examples

The following example shows all IPv4 LISP route-import entries using the **show ip lisp route-import** command and then clears the IPv4 LISP route-import entries. The **debug lisp control-plane rib-rloc-watch** command is enabled to indicate the effect of using the **clear ip lisp route-import** command.

```
Router# debug lisp control-plane rib-rloc-watch
LISP control plane RIB RLOC watch debugging is on
Router# show ip lisp route-import
LISP IPv4 imported routes for EID-table default (IID 0)
Config: 1, Entries: 4
Prefix         Uptime     Source    Map-cache   State
10.0.1.0/24    00:07:49   static    installed
10.0.2.0/24    00:07:49   static    installed
10.0.3.0/24    00:07:49   static    installed
10.0.4.0/24    00:07:49   static    installed
Router# clear ip lisp route-import
*Jun 27 21:42:12.215: LISP: AF IPv4, rtimp re-eval marking stale.
*Jun 27 21:42:12.215: LISP: AF IPv4, rtimp re-eval walking rib.
*Jun 27 21:42:12.215: LISP: AF IPv4, rtimp re-eval delete stale.
*Jun 27 21:42:12.215: LISP: AF IPv4, rtimp re-eval done.
```

```
Router# show ip lisp route-import
LISP IPv4 imported routes for EID-table default (IID 0)
Config: 1, Entries: 4
Prefix               Uptime     Source   Map-cache   State
10.0.1.0/24          00:08:20   static   installed
10.0.2.0/24          00:08:20   static   installed
10.0.3.0/24          00:08:20   static   installed
10.0.4.0/24          00:08:20   static   installed
Router#
```

In this example, when **clear ip lisp route-import** is entered, all route-import routes are marked stale and then re-evaluated according to the **ip lisp route-import** command and remaining stale routes removed, as displayed in the debug output.

Related Commands

Command	Description
clear ip lisp map-cache	Clears the LISP map cache.
debug lisp control-plane rib-rloc-watch	Displays messages related to the up/down local/remote status of local locators in the RIB.
show ip lisp map-cache	Displays the current dynamic and static IPv4 EID-to-RLOC map-cache entries.
show ip lisp route-import	Displays the current IPv4 RIB routes imported into LISP.

clear ip lisp statistics

To clear Locator/ID Separation Protocol (LISP) Ingress Tunnel Router (ITR) andEgress Tunnel Router (ETR) IPv4 address-family packet count statistics, use the **clear ip lisp statistics** command in privilege EXEC mode.

clear ip lisp statistics

Syntax Description

This command has no arguments or keywords.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)XB1	This command was introduced.
Cisco IOS XE Release 2.5.1XA	This command was integrated into Cisco IOS XE Release 2.5.1XA.
Cisco IOS XE Release 3.3.0S	This command was integrated into Cisco IOS XE Release 3.3.0S.
15.1(4)M	This command was integrated into Cisco IOS Release 15.1(4)M.

Usage Guidelines

The **clear ip lisp statistics** command clears all of the LISP ITR and ETR IPv4 address-family packet count statistics. IPv4 address family packet count statistics are maintained for all LISP control plane packets. These packet counters are displayed using the **show ip lisp statistics** command.

Examples

The following example shows how to display all IPv4 LISP control plane statistics (packet counters) and then clears these statistics.

```
Router# show ip lisp statistics
LISP Statistics - last cleared: never
Control Packets:
  Map-Requests in/out:                      2451/2184
    Encapsulated Map-Requests in/out:       2428/1156
    RLOC-probe Map-Requests in/out:         23/1028
  Map-Reply records in/out:                 2183/2428
    Authoritative records in/out:           1035/2428
---<skip>---
Router# clear ip lisp statistics
Router# show ip lisp statistics
LISP Statistics - last cleared: 00:00:06
Control Packets:
  Map-Requests in/out:                      0/0
    Encapsulated Map-Requests in/out:       0/0
    RLOC-probe Map-Requests in/out:         0/0
  Map-Reply records in/out:                 0/0
    Authoritative records in/out:           0/0
---<skip>---
Router#
```

Related Commands

Command	Description
show ip lisp statistics	Displays LISP IPv4 address-family statistics.

clear ipv6 lisp map-cache

To clear the Locator/ID Separation Protocol (LISP) map cache, use the **clear ipv6 lisp map-cache** command in privilege EXEC mode.

clear ipv6 lisp map-cache [*EID-prefix/prefix-length*]

Syntax Description

EID-prefix/prefix-length	(Optional) IPv6 endpoint identifier (EID) prefix to clear from the LISP map-cache.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)XB1	This command was introduced.
Cisco IOS XE Release 2.5.1XA	This command was integrated into Cisco IOS XE Release 2.5.1XA.
Cisco IOS XE Release 3.3.0S	This command was integrated into Cisco IOS XE Release 3.3.0S.
15.1(4)M	This command was integrated into Cisco IOS Release 15.1(4)M.

Usage Guidelines

The **clear ipv6 lisp map-cache** command removes all IPv6 dynamic LISP map-cache entries stored by the router. When an optional IPv6 EID prefix is added to the command, only that IPv6 EID prefix is cleared from the LISP map cache.

Examples

The following example shows how to display all LISP map-cache entries and then clears the LISP map cache for the IPv6 EID prefix 2610:D0:2104::/48.

```
Router# show ipv6 lisp map-cache
::/0, uptime: 00:23:36, expires: never, via static
  Negative cache entry, action: send-map-request
2001:DB8:AB::/48, uptime: 00:06:52, expires: 23:55:32, via map-reply, complete
  Locator   Uptime    State      Pri/Wgt
  10.0.0.6  00:18:02  up           1/100
Router# clear ipv6 lisp map-cache 2001:DB8:AB::/48
Router# show ipv6 lisp map-cache
LISP IPv6 Mapping Cache, 1 entries
::/0, uptime: 00:24:13, expires: never, via static
  Negative cache entry, action: send-map-request
Router#
```

Related Commands

Command	Description
show ipv6 lisp map-cache	Displays the current dynamic and static IPv6 EID-to-RLOC map-cache entries.

clear ipv6 lisp statistics

To clear Locator/ID Separation Protocol (LISP) Ingress Tunnel Router (ITR) and Egress Tunnel Router (ETR) IPv6 address-family packet count statistics, use the **clear ipv6 lisp statistics** command in privilege EXEC mode.

clear ipv6 lisp statistics

Syntax Description

This command has no arguments or keywords.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)XB1	This command was introduced.
Cisco IOS XE Release 2.5.1XA	This command was integrated into Cisco IOS XE Release 2.5.1XA.
Cisco IOS XE Release 3.3.0S	This command was integrated into Cisco IOS XE Release 3.3.0S.
15.1(4)M	This command was integrated into Cisco IOS Release 15.1(4)M.

Usage Guidelines

The **clear ipv6 lisp statistics** command clears the LISP ITR and ETR IPv6 address-family packet count statistics. IPv6 address family packet count statistics are maintained for all LISP control plane packets. These packet counters are displayed using the **show ipv6 lisp statistics** command.

Examples

The following example shows how to display all IPv6 LISP control plane statistics (packet counters), and then clears these statistics.

```
Router# show ipv6 lisp statistics
LISP Statistics - last cleared: never
Control Packets:
  Map-Requests in/out:                      6/27
    Encapsulated Map-Requests in/out:       6/2
    RLOC-probe Map-Requests in/out:         0/25
  Map-Reply records in/out:                 24/29
    Authoritative records in/out:           24/29
---<skip>---
Router# clear ipv6 lisp statistics
Router# show ipv6 lisp statistics
LISP Statistics - last cleared: 00:00:02
Control Packets:
  Map-Requests in/out:                      0/0
    Encapsulated Map-Requests in/out:       0/0
    RLOC-probe Map-Requests in/out:         0/0
  Map-Reply records in/out:                 0/0
    Authoritative records in/out:           0/0
---<skip>---
Router#
```

Related Commands

Command	Description
show ipv6 lisp statistics	Displays LISP IPv6 address-family statistics.

clear ipv6 lisp route-import

To clear the current IPv6 routing information base (RIB) routes imported into Locator ID Separation Protocol (LISP), use the **clear ipv6 lisp route-import** command in privilege EXEC mode.

clear ipv6 lisp route-import [{**eid-table vrf** *vrf-name* | **instance-id** *iid*}]

Syntax Description

eid-table vrf *vrf-name*	(Optional) Clears the referenced EID table.
instance-id *iid*	(Optional) Clears the referenced instance ID.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(4)XB5	This command was introduced.
15.2(3)T	This command was integrated into Cisco IOS Release 15.2(3)T.
Cisco IOS XE Release 3.6S	This command was integrated into Cisco IOS XE Release 3.6S.

Usage Guidelines

The **clear ipv6 lisp route-import** command operates differently from other **clear** commands.

However, when the **clear ipv6 lisp route-import** command is entered, all route-import routes are marked stale, then re-evaluated according to the **ipv6 lisproute-import** command, and remaining stale routes removed. Thus, entering **clear ipv6 lisp route-import** command may or may not result in changes to the imported routes. The **show ipv6 lisp route-import** command provides a listing of the current route imports.

To restrict the clear functions to a specific EID table, use the **eid-table vrf** *vrf-name* keyword and argument. To restrict the clear functions to a specific LISP instance ID, use the **instance-id** *iid* keyword and argument.

Examples

The following example shows all IPv6 LISP route-import entries using the **show ipv6 lisp route-import** command and then clears the IPv6 LISP route-import entries. The **debug lisp control-plane rib-rloc-watch** command is enabled to indicate the affect of using the **clear ipv6 lisp route-import** command.

```
Router# debug lisp control-plane rib-rloc-watch
LISP control plane RIB RLOC watch debugging is on
Router# show ipv6 lisp route-import
LISP IPv6 imported routes for EID-table default (IID 0)
Config: 1, Entries: 2
Prefix                        Uptime      Source   Map-cache   State
2001:DB8:B::/48               02:13:53    static   installed
2001:DB8:C::/48               02:13:53    static   installed
Router# clear ipv6 lisp route-import
*Jun 27 23:50:02.911: LISP: AF IPv6, rtimp re-eval marking stale.
*Jun 27 23:50:02.911: LISP: AF IPv6, rtimp re-eval walking rib.
*Jun 27 23:50:02.911: LISP: AF IPv6, rtimp re-eval delete stale.
*Jun 27 23:50:02.911: LISP: AF IPv6, rtimp re-eval done.
Router# show ipv6 lisp route-import
LISP IPv6 imported routes for EID-table default (IID 0)
Config: 1, Entries: 2
```

```
Prefix                          Uptime      Source   Map-cache   State
2001:DB8:B::/48                 02:14:05    static   installed
2001:DB8:C::/48                 02:14:05    static   installed
Router#
```

In this example, when **clear ipv6 lisp route-import** is entered, all route-import routes are marked stale and then re-evaluated according to the **ipv6 lisp route-import** command and remaining stale routes are removed, as displayed in the debug output.

Related Commands

Command	Description
clear ipv6 lisp map-cache	Clears the LISP map cache.
debug lisp control-plane rib-rloc-watch	Displays messages related to the up/down local/remote status of local locators in the RIB.
show ipv6 lisp map-cache	Displays the current dynamic and static IPv6 EID-to-RLOC map-cache entries.
show ipv6 lisp route-import	Displays the current IPv6 RIB routes imported into LISP.

clear lisp ddt

To clear the DDT referral cache that is stored on a DDT-enabled map resolver, use the **clear lisp ddt** command in privileged EXEC mode.

clear lisp ddt referral-cache [{**instance-id** *iid eid* | **statistics**}]

Syntax Description

referral-cache	Clears the DDT referral cache contents.
instance-ID *iid*	(Optional) Displays the DDT referral cache related to this single instance ID.
eid	(Optional) Displays the DDT referral cache related to this single Endpoint ID (EID).
statistics	(Optional) Clears use statistics without deleting cache entries.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.3(1)T	This command was introduced.
Cisco IOS XE Release 3.8S	This command was integrated into Cisco IOS XE Release 3.8S.

Usage Guidelines

Use this command to clear the referral cache on a DDT map resolver.

A DDT map resolver uses an iterative process of following referrals to find the correct ETR to answer a map request; this requires a DDT map resolver to maintain additional state: a map-referral cache and a lookup queue of map requests that are going through the iterative referral process. The **clear lisp ddt** command clears the contents of the map-referral cache.

When the **clear lisp ddt** command is specified using the optional *eid* entry, the single referral cache entry *eid* is removed.

When the **clear lisp ddt** command is specified using the optional **instance-id** *iid* keyword, all referral cache entries related to that instance ID are removed. When the **clear lisp ddt** command is specified using the optional **instance-id** *iid* keyword, the single referral cache entry *eid* within **instance-id** *iid* is removed.

Example

The following example clears the LISP DDT referral cache using the **clear lisp ddt** command, and then displays the output of **show lisp ddt** command:

```
Device> enable
Device# clear lisp ddt referral-cache
```

```
Device# show lisp ddt referral-cache
LISP-DDT Referral Cache in VRF "default", 0 entries
```

Related Commands

Command	Description
ddt	Configures a device to enable LISP DDT functionality.
show lisp ddt	Displays the configured LISP DDT root(s) and/or DDT delegation nodes on a device enabled for LISP DDT.

clear lisp site

To clear the registration data for the specified Locator/ID Separation Protocol (LISP) site, use the **clear lisp site** command in privilege EXEC mode

clear lisp site {*EID-prefix*/*prefix-lengthsite-name*}

Syntax Description

EID-prefix/prefix-length	IPv4 or IPv6 endpoint identifier (EID) prefix configured on any site for the LISP to clear.
site-name	LISP site for which registration data is to be cleared.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)XB2	This command was introduced.
Cisco IOS XE Release 2.5.1XB	This command was integrated into Cisco IOS XE Release 2.5.1XB.
Cisco IOS XE Release 3.3.0S	This command was integrated into Cisco IOS XE Release 3.3.0S
15.1(4)M	This command was integrated into Cisco IOS Release 15.1(4)M

Usage Guidelines

On a LISP Map-Server only, the **clear lisp site** command clears the registration data for the specified LISP site. When the *EID-prefix* argument in the command, the EID-prefix registration data is cleared from the site containing that EID prefix. If the site is active, the EID prefix will return when the site next registers. When the *site-name* form of the command is used, all site-specific registration information for the specified site is cleared. If the site is active, the entire site will return when the site next registers.

The registration status of LISP sites is displayed using the **show lisp site** command.

Examples

The following example shows how to clear the LISP registration data for the LISP site called Site1-xtr.

```
Map-Server# show lisp site name site1-xtr
Site name: site1-xtr
Description: LISP Site 1
Allowed configured locators: any
Allowed EID-prefixes:
  EID-prefix: 192.168.1.0/24
    First registered:     00:05:22
---<skip>---
Map-Server# clear lisp site site1-xtr
Map-Server# show lisp site name site1-xtr
Site name: site1-xtr
Description: LISP Site 1
Allowed configured locators: any
Allowed EID-prefixes:
  EID-prefix: 192.168.1.0/24
    First registered:     00:05:45
    Routing table tag:    0x0
    No registrations.
```

```
  EID-prefix: 2001:DB8:A::/48
    First registered:     00:44:13
    Routing table tag:    0x0
    No registrations.
Map-Server#
```

Related Commands

Command	Description
show lisp site	Displays LISP site information.

clear lisp vrf

To clear a Locator/ID Separation Protocol (LISP) reliable TCP transport session between an xTR and a Map-Server, use the **clear lisp vrf** command in privileged EXEC mode.

clear lisp vrf *vrf-name* **session** {*peer-address* | *****}

Syntax Description

vrf-name	VRF instance. The transport session information for this VRF instance will be cleared.
session	Specifies that the reliable transport session for either the specified peer address or all transport sessions be cleared, based on your choice.
peer-address	IPv4 or IPv6 peer address. When you specify a peer-address, the TCP connection to the peer will be cleared.
*****	Clears all LISP reliable transport sessions. When you choose this option, all transport sessions are cleared.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.5(1)T	This command was introduced.
Cisco IOS XE Release 3.14S	This command was integrated into Cisco IOS XE Release 3.14S.

Examples

The following example shows how to clear all reliable TCP transport sessions using the ***** option:

```
Device# clear lisp vrf v1 session *
```

Related Commands

Command	Description
show lisp vrf	Displays transport session information for a LISP VRF instance.