



# Cisco Express Forwarding: Command Changes

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This feature module details changes to commands that are required to support updates to Cisco Express Forwarding.

In Cisco IOS Releases 12.2(25)S, 12.2(28)SB, 12.2(33)SRA, 12.2(33)SXH, and 12.4(20)T, Cisco Express Forwarding has been updated to support new features and new hardware. These updates enable Cisco Express Forwarding to operate with the Multiprotocol Label Switching (MPLS) High Availability (HA) applications and the MPLS Forwarding Infrastructure (MFI).

Cisco Express Forwarding provides a forwarding path and maintains a complete forwarding and adjacency table for both the software and hardware forwarding engines.

## **Finding Feature Information in This Module**

Your Cisco IOS software release may not support all of the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To reach links to specific feature documentation in this module and to see a list of the releases in which each feature is supported, use the [“Feature Information for Cisco Express Forwarding: Command Changes” section on page 6](#).

## **Finding Support Information for Platforms and Cisco IOS and Catalyst OS Software Images**

Use Cisco Feature Navigator to find information about platform support and Cisco IOS and Catalyst OS software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

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# Information About Cisco Express Forwarding: Command Changes

Before using the Cisco Express Forwarding commands, you should understand the following concepts:

- [Deleted Commands, page 2](#)
- [Replaced Commands, page 3](#)

## Deleted Commands

The following commands are obsolete and are no longer available from Cisco IOS Releases 12.2(25)S, 12.2(28)SB, 12.2(33)SRA, 12.2(33)SXH, 12.4(20)T, and future releases (no replacement commands are provided):

- **clear adjacency epoch**
- **clear cef linecard events**
- **clear ip cef epoch**
- **clear ip cef events**
- **clear ip cef \* prefix-statistics**
- **debug adjacency adjlist**
- **debug ip cef bulk-xfer**
- **debug ip cef elog-cef**
- **debug ip cef elog-plat**
- **debug ip cef stats**
- **ip cef switch**
- **ip cef linecard event-log**
- **ip cef linecard reloader**
- **ip cef load-sharing algorithm jittered**
- **ip cef nsf sync**
- **ip cef table event-log**
- **ip cef table resolution-timer**
- **ip cef table short-mask-protection**
- **show cef events**
- **show cef linecard events**

## Replaced Commands

[Table 1](#) lists all replaced Cisco Express Forwarding commands, starting with Cisco IOS Releases 12.2(25)S, 12.2(28)SB, 12.2(33)SRA, 12.2(33)SXH, and 12.4(20)T, for the Cisco 7500 series routers:

**Table 1** Replaced Cisco Express Forwarding Commands—Cisco 7500 Series Routers

Command	Replacement Command
ip cef table consistency-check	cef table consistency-check
debug ip cef adjfib	debug cef fib attached export
ip cef switch	ip cef
clear ip cef event-log	monitor event-trace cef ipv4 clear
ip cef linecard event-log max-events	monitor event-trace cef linecard size
show adjacency nexthop	show adjacency
show cef drop	show ip cef switching statistics
show cef not-cef-switched	show ip cef switching statistics
show cef events	show monitor event-trace
show ip cef events (still visible)	show monitor event-trace cef events
show cef events [internal]	show monitor event-trace cef events all
show cef linecard events	show monitor event-trace cef linecard

[Table 2](#) lists all replaced Cisco Express Forwarding commands, starting with Cisco IOS Releases 12.2(25)S, 12.2(28)SB, 12.2(33)SRA, 12.2(33)SXH, and 12.4(20)T for the Cisco 10000 series routers :

**Table 2** Replaced Cisco Express Forwarding Commands—Cisco 10000 Series Routers

Command	Replacement Command
ip cef table consistency-check	cef table consistency-check
debug ip cef adjfib	debug cef fib attached export
clear ip cef event-log	monitor event-trace cef ipv4 clear
show adjacency nexthop	show adjacency
show cef drop	show ip cef switching statistics
show cef events	show monitor event-trace
show ip cef events (still visible)	show monitor event-trace cef events
show cef events [internal]	show monitor event-trace cef events all
show cef linecard events	—

## Additional References

For additional information related to the Cisco Express Forwarding command changes, see the following references:

## Related Documents

Related Topic	Document Title
MPLS HA applications and MFI	<a href="#">MPLS High Availability: Overview</a>

## MIBs

MIB	MIBs Link
None	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a>

## Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<a href="http://www.cisco.com/techsupport">http://www.cisco.com/techsupport</a>

## Command Reference

The following commands are introduced or modified in the feature or features documented in this module. For information about these commands, see the *Cisco IOS IP Switching Command Reference* at [http://www.cisco.com/en/US/docs/ios/ipswitch/command/reference/isw\\_book.html](http://www.cisco.com/en/US/docs/ios/ipswitch/command/reference/isw_book.html). For information about all Cisco IOS commands, use the Command Lookup Tool at <http://tools.cisco.com/Support/CLILookup> or the *Cisco IOS Master Command List, All Releases*, at [http://www.cisco.com/en/US/docs/ios/mcl/allreleasemcl/all\\_book.html](http://www.cisco.com/en/US/docs/ios/mcl/allreleasemcl/all_book.html).

- **cef table consistency-check**
- **clear adjacency**

- **clear cef linecard**
- **clear cef table**
- **clear ip cef inconsistency**
- **debug adjacency**
- **debug cef**
- **debug ip cef**
- **debug ip cef accounting non-recursive**
- **debug ip cef fragmentation**
- **debug ip cef hash**
- **debug ip cef rhash**
- **debug ip cef subblock**
- **debug ip cef table**
- **ip route-cache**
- **monitor event-trace (EXEC)**
- **monitor event-trace (global)**
- **show adjacency**
- **show cef**
- **show cef features global**
- **show cef interface**
- **show ip cef**
- **show ip cef adjacency**
- **show ip cef non-recursive**
- **show ip cef switching statistics**
- **show ip cef tree**
- **show ip cef unresolved**
- **show ip traffic**
- **show monitor event-trace**
- **show xdr**

# Feature Information for Cisco Express Forwarding: Command Changes

Table 3 lists the release history for this feature.

Not all commands may be available in your Cisco IOS software release. For release information about a specific command, see the command reference documentation.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS and Catalyst OS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



## Note

Table 3 lists only the Cisco IOS software release that introduced support for a given feature in a given Cisco IOS software release train. Unless noted otherwise, subsequent releases of that Cisco IOS software release train also support that feature.

**Table 3** Feature Information for Cisco Express Forwarding: Command Changes

Feature Name	Releases	Feature Information
Cisco Express Forwarding: Command Changes	12.2(25)S 12.2(28)SB 12.2(33)SRA 12.2(33)SXH 12.4(20)T	<p>In Cisco IOS Releases 12.2(25)S, 12.2(28)SB, 12.2(33)SRA and 12.2(33)SXH, Cisco Express Forwarding has been updated to support new features and new hardware. These updates enable Cisco Express Forwarding to operate with the Multiprotocol Label Switching (MPLS) High Availability (HA) applications and the MPLS Forwarding Infrastructure (MFI).</p> <p>This feature module details changes to commands that are required to support updates to Cisco Express Forwarding.</p> <p>In 12.2(25)S, this feature was introduced and supported on the Cisco 7500 series routers.</p> <p>In 12.2(28)SB, this feature was integrated into Cisco IOS Release 12.2(28)SB and implemented on the Cisco 10000 series routers.</p> <p>In 12.2(33)SRA, this feature was integrated into Cisco IOS Release 12.2(33)SRA.</p> <p>In 12.2(33)SXH, this feature was integrated into Cisco IOS Release 12.2(33)SXH.</p> <p>In 12.4(20)T, this feature was integrated into a Cisco IOS 12.4T release.</p> <p>The following sections provide information about this feature:</p> <ul style="list-style-type: none"> <li>• “Deleted Commands” section on page 2</li> <li>• “Replaced Commands” section on page 3.</li> </ul>

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