Cisco Express Forwarding Command Changes

Last Updated: October 15, 2012

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

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

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

Information About Command Changes

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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

The table below 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**

Command	Replacement Command
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**

The table below 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

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
IP switching commands: complete command syntax, command modes, command history, defaults, usage guidelines, and examples.	*Cisco IOS IP Switching Command Reference*
MPLS HA applications and MFI	MPLS High Availability: Overview

MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Cisco Express Forwarding Command Changes

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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

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	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).
		This feature module details changes to commands that are required to support updates to Cisco Express Forwarding.
		In 12.2(25)S, this feature was introduced and supported on the Cisco 7500 series routers.
		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.
		In 12.2(33)SRA, this feature was integrated into Cisco IOS Release 12.2(33)SRA.
		In 12.2(33)SXH, this feature was integrated into Cisco IOS Release 12.2(33)SXH.
		In 12.4(20)T, this feature was integrated into a Cisco IOS 12.4T release.
		The following commands were modified: **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 subblock, debug ip cef table, ip route-cache, monitor event-trace (EXEC), monitor event-trace**

Feature Name	Releases	Feature Information
		(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.