



# Cisco IOS Software Feature Removal: CPP, CMPC, CTRC, LNM, TR-ISL, and TR-LANE

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## Feature History

Release	Modification
12.3(2)T	Features described in this feature module were removed in Cisco IOS Release 12.3(2)T.
12.3(4)T	Features described in this feature module were removed in Cisco IOS Release 12.3(4)T.

The Cisco IOS Software Feature Removal feature is an engineering project to permanently remove selected legacy features (or components) from the Cisco IOS code. These features will not be available in future releases of Cisco IOS software.

The legacy feature that has been removed as of Release 12.3(2)T is as follows:

- [Token Ring Inter-Switch Link](#)

The legacy feature that has been removed as of Release 12.3(4)T are as follows:

- [Combinet Packet Protocol](#)
- [Cisco Multipath Channel](#)
- [Cisco Transaction Connection](#)
- [LAN Network Manager](#)
- [Token Ring LAN Emulation](#)

This document lists the commands that have been removed from or modified in Cisco IOS software with the removal of a specified feature.



### Note

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Commands that have been modified may not all be listed in this document.

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## Token Ring Inter-Switch Link

The following commands have been removed from Cisco IOS software with the removal of the Token Ring Inter-Switch Link (TRISL) feature. Please note that not all commands that may have been modified are listed.

- **encapsulation tr-isl trbrf-vlan**
- **multiring trcrf-vlan**
- **source-bridge trcrf-vlan**

## Combinet Packet Protocol

The following commands have been removed from Cisco IOS software with the removal of the Combinet Packet Protocol (CPP) feature. Please note that not all commands that may have been modified are listed.

- **cpp authentication**
- **cpp callback accept**
- **encapsulation cpp**
- **debug cpp negotiation**
- **debug cpp packet**
- **debug cpp event**

## Cisco Multipath Channel

The following commands have been removed from Cisco IOS software with the removal of the Cisco Multipath Channel (CMPC) feature. Please note that not all commands that may have been modified are listed.

- **cmpe**
- **tg (CMPC)**

## Cisco Transaction Connection

The following commands have been removed from Cisco IOS software with the removal of the Cisco Transaction Connection (CTRC) feature. Please note that not all commands that may have been modified are listed.

- **clear dbconn connection**
- **clear dbconn statistic**
- **clear txconn connection**
- **clear txconn statistic**
- **clear txconn transaction**
- **dbconn license**
- **dbconn pem**
- **dbconn ping**

- **dbconn server**
- **dbconn tcpserver**
- **show dbconn connection**
- **show dbconn license**
- **show dbconn ports**
- **show dbconn server**
- **show dbconn statistic**
- **show dbconn wlm**
- **show txconn connection**
- **show txconn destination**
- **show txconn license**
- **show txconn route**
- **show txconn server**
- **show txconn statistic**
- **show txconn transaction**
- **txconn destination**
- **txconn license**
- **txconn ping**
- **txconn route**
- **txconn server**

## LAN Network Manager

The following commands have been removed from Cisco IOS software with the removal of the LAN Network Manager (LNM) feature. Please note that not all commands that may have been modified are listed.

- **lnm alternate**
- **lnm crs**
- **lnm disabled**
- **lnm express-buffer**
- **lnm loss-threshold**
- **lnm password**
- **lnm pathtrace-disabled**
- **lnm rem**
- **lnm rps**
- **lnm snmp-only**
- **lnm softerr**
- **show lnm bridge**

- **show lnm config**
- **show lnm interface**
- **show lnm ring**
- **show lnm station**

## Token Ring LAN Emulation

The following commands have been modified in Cisco IOS software with the removal of the Token Ring LAN Emulation (TR-LANE) feature. Please note that not all commands that may have been modified are listed.

- **lane client**
- **lane server-bus**

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