



Cisco IOS Software Feature Removal

Feature Overview

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

The legacy features that have been removed as of Release 12.2(13)T are as follows:

- [AppleTalk EIGRP](#)
- [Apollo Domain](#)
- [Banyan VINES](#)
- [Exterior Gateway Protocol](#)
- [HP Probe](#)
- [Interior Gateway Routing Protocol](#)
- [Next Hop Resolution Protocol for IPX](#)
- [Novell Link-State Protocol](#)
- [Simple Multicast Routing Protocol for AppleTalk](#)
- [Xerox Network Systems](#)

The legacy features that have been removed as of Release 12.2(15)T are as follows:

- [LAN Extension](#)
- [Netware Asynchronous Services Interface Protocol](#)
- [Xremote](#)

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



Note

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



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

AppleTalk EIGRP

The following commands have been removed from or modified in Cisco IOS software with the removal of the AppleTalk EIGRP feature. Please note that not all commands that may have been modified are listed here:

- **appletalk eigrp active-time**
- **appletalk eigrp-bandwidth-percentage**
- **appletalk eigrp log-neighbor-changes**
- **appletalk eigrp-splithorizon**
- **appletalk eigrp-timers**
- **appletalk route-redistribution**
- **debug apple eigrp-all**
- **show appletalk eigrp interfaces**
- **show appletalk eigrp neighbors**
- **show appletalk eigrp topology**

Apollo Domain

The following commands have been removed from or modified in Cisco IOS software with the removal of the Apollo Domain feature:

- **apollo access-group**
- **apollo access-list**
- **apollo maximum-paths**
- **apollo network**
- **apollo route**
- **apollo routing**
- **apollo update-time**
- **debug packet**
- **ping**
- **show apollo arp**
- **show apollo interface**
- **show apollo route**
- **show apollo traffic**

Banyan VINES

The following commands have been removed from or modified in Cisco IOS software with the removal of the Banyan VINES feature:

- **clear vines cache**
- **clear vines ipc**

- **clear vines neighbor**
- **clear vines route**
- **clear vines traffic**
- **debug frame-relay**
- **debug packet**
- **debug vines arp**
- **debug vines echo**
- **debug vines ipc**
- **debug vines netrpc**
- **debug vines packet**
- **debug vines routing**
- **debug vines service**
- **debug vines state**
- **debug vines table**
- **show vines access**
- **show vines cache**
- **show vines host**
- **show vines interface**
- **show vines ipc**
- **show vines neighbor**
- **show vines route**
- **show vines service**
- **show vines traffic**
- **trace (VINES)**
- **vines access-group**
- **vines access-list (extended)**
- **vines access-list (simple)**
- **vines access-list (standard)**
- **vines arp-enable**
- **vines decimal**
- **vines encapsulation**
- **vines enhancements**
- **vines host**
- **vines input-network-filter**
- **vines input-router-filter**
- **vines metric**
- **vines neighbor**
- **vines output-network-filter**

- **vines propagate**
- **vines redirect**
- **vines route**
- **vines route-cache**
- **vines routing**
- **vines serverless**
- **vines single-route**
- **vines split-horizon**
- **vines srtp-enabled**
- **vines time access-group**
- **vines time destination**
- **vines time participate**
- **vines time services**
- **vines time set-system**
- **vines time use-system**
- **vines update deltas**
- **vines update interval**

Exterior Gateway Protocol

No commands were removed from or modified in Cisco IOS software with the removal of the EGP feature.

HP Probe

The following commands have been removed from or modified in Cisco IOS software with the removal of the HP Probe feature:

- **arp (interface) probe**
- **ip hp-host**
- **ip probe proxy**

Interior Gateway Routing Protocol

The following commands have been removed from or modified in Cisco IOS software with the removal of the IGRP feature:

- **debug clns igrp packets**
- **debug ip igrp events**
- **debug ip igrp transactions**
- **debug ip routing**

- **default-metric (IGRP)**
- **ip split-horizon (IGRP)**
- **metric holddown**
- **metric maximum-hops**
- **metric weights (IGRP)**
- **neighbor (IGRP)**
- **network (IGRP)**
- **offset-list (IGRP)**
- **router igrp**
- **set metric (IGRP)**
- **timers basic (IGRP)**
- **traffic-share balanced**

LAN Extension

No commands were removed from or modified in Cisco IOS software with the removal of the LAN Extension feature.

Netware Asynchronous Services Interface Protocol

The following commands have been removed from or modified in Cisco IOS software with the removal of the NASI protocol:

- **aaa authentication nasi**
- **ipx nasi-server enable**
- **nasi authentication**
- **show ipx nasi connections**

Next Hop Resolution Protocol for IPX

The following commands have been removed from or modified in Cisco IOS software with the removal of the NHRP for IPX feature:

- **clear ipx nhrp**
- **debug nhrp**
- **debug nhrp extension**
- **debug nhrp options**
- **debug nhrp packet**
- **debug nhrp rate**
- **ipx nhrp authentication**
- **ipx nhrp holdtime**

- **ipx nhrp interest**
- **ipx nhrp map**
- **ipx nhrp max-send**
- **ipx nhrp network-id**
- **ipx nhrp nhs**
- **ipx nhrp record**
- **ipx nhrp responder**
- **ipx nhrp use**
- **show ipx nhrp**
- **show ipx nhrp traffic**

Novell Link-State Protocol

The following commands have been removed from or modified in Cisco IOS software with the removal of the NLSP feature:

- **access-list (NLSP)**
- **area-address (NLSP)**
- **clear ipx nlsr neighbors**
- **clear ipx route**
- **clear ipx traffic**
- **deny (NLSP)**
- **distribute-list in**
- **distribute-list out**
- **distribute-sap-list in**
- **distribute-sap-list out**
- **ipx access-list**
- **ipx advertise-default-route-only**
- **ipx flooding-unthrottled**
- **ipx internal-network**
- **ipx nlsr csnr-interval**
- **ipx nlsr enable**
- **ipx nlsr hello-interval**
- **ipx nlsr hello-multiplier**
- **ipx nlsr lsp-interval**
- **ipx nlsr metric**
- **ipx nlsr multicast**
- **ipx nlsr priority**
- **ipx nlsr retransmit-interval**

- **ipx nlsip rip**
- **ipx nlsip sap**
- **ipx ping-default**
- **ipx potential-pseudonode**
- **ipx route**
- **ipx router**
- **log-adjacency-changes**
- **multicast (NLSP)**
- **permit (NLSP)**
- **redistribute (IPX)**
- **route-aggregation**
- **show ipx nlsip database**
- **show ipx nlsip neighbors**
- **show ipx nlsip spf-log**
- **show ipx route**
- **show ipx traffic**

Simple Multicast Routing Protocol for AppleTalk

The following commands have been removed from or modified in Cisco IOS software with the removal of the SMRP for AppleTalk feature:

- **clear smrp mcache**
- **debug smrp all**
- **debug smrp group**
- **debug smrp mcache**
- **debug smrp neighbor**
- **debug smrp port**
- **debug smrp route**
- **debug smrp transaction**
- **show smrp forward**
- **show smrp globals**
- **show smrp group**
- **show smrp mcache**
- **show smrp neighbor**
- **show smrp port**
- **show smrp route**
- **show smrp traffic**
- **smrp mroute-cache protocol appletalk**

- **smrp protocol appletalk**
- **smrp routing**

Xerox Network Systems

The following commands have been removed from or modified in Cisco IOS software with the removal of the XNS feature:

- **access-list (XNS extended)**
- **access-list (XNS standard)**
- **debug xns packet**
- **debug xns routing**
- **show xns cache**
- **show xns interface**
- **show xns route**
- **show xns traffic**
- **xns access-group**
- **xns encapsulation**
- **xns flood broadcast allnets**
- **xns flood broadcast net-zero**
- **xns flood specific allnets**
- **xns forward-protocol**
- **xns hear-rip**
- **xns helper-address**
- **xns input-network-filter**
- **xns maximum-paths**
- **xns network**
- **xns output-network-filter**
- **xns route**
- **xns route-cache**
- **xns router-filter**
- **xns routing**
- **xns ub-emulation**
- **xns update-time**

Xremote

The following commands have been removed from or modified in Cisco IOS software with the removal of the Xremote feature:

- **show xremote**

- **show xremote line**
- **xremote**
- **xremote lat**
- **xremote tftp buffersize**
- **xremote tftp host**
- **xremote tftp retries**
- **xremote xdm**

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

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