



New Features in Cisco IOS Release 12.2(33)SRD

The following features were introduced in Cisco IOS Release 12.2(33)SRD. Links to feature documentation are also included.

Feature guides may contain information about more than one feature. To find information about a specific feature within a feature guide, see the Feature Information table at the end of the guide.

Feature guides document features that are supported on many different software releases and platforms. Your Cisco IOS software release or platform may not support all the features documented in a feature guide. See the Feature Information table at the end of the feature guide for information about which features in that guide are supported in your software release. 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.

For the latest feature information and caveats, see the release notes for your platform and software release at the following URL: http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

See the following sections for a list of features:

- [New Hardware Features in Cisco IOS Release 12.2\(33\)SRD, page 1](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SRD, page 3](#)

New Hardware Features in Cisco IOS Release 12.2(33)SRD

CWDM SFP Support

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/install_upgrade/7600series/SIP-SSC-SPA-HW-Install.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guide/es40_Line_Card_Installation_Guide/es40_hw_install_guide.html

DWDM SFP Support

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/install_upgrade/7600series/SIP-SSC-SPA-HW-Install.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guide/es20_Line_Card_Installation_Guide/es20-install-guide.html



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

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_hw_install_guide.html

DWDM-XFP Support

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/install_upgrade/7600series/SIP-SSC-SPA-HW-Install.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES20_Line_Card_Installation_Guide/es20-install-guide.html

Network Analysis Module (NAM)

http://www.cisco.com/en/US/docs/routers/7600/Hardware/12.2SR_supported_hw/7600_hwd.html

New Line Cards

http://www.cisco.com/en/US/products/hw/routers/ps368/prod_installation_guides_list.html

Persistent Storage Device

http://www.cisco.com/en/US/docs/ios/12_2sr/mw_psd/configuration/guide/mw_psd12233srd.html

Service and Application Module for IP

http://www.cisco.com/en/US/docs/wireless/service_application_module/sami/user/guide/samiv1.html

SFP-GE-T on ES40 Line Card

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_hw_install_guide.html

SPA-8X1FE-TX-V2 & SPA-4X1FE-TX-V2 Support on SIP-400

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipsasw.html

Support for BX Optics (GLC-BX-U=, GLC-BX-D=) with GE SPA (SIP line cards), ES20 & ES40 Line Cards

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/install_upgrade/7600series/SIP-SSC-SPA-HW-Install.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES20_Line_Card_Installation_Guide/es20-install-guide.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_hw_install_guide.html

XFP-10GER-OC192LR= Version 2 XFP Support

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES20_Line_Card_Installation_Guide/es20-install-guide.html

http://www.cisco.com/en/US/products/hw/routers/ps368/prod_installation_guides_list.html

XFP-10GZR-OC192LR= XFP Support

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/install_upgrade/7600series/SIP-SSC-SPA-HW-Install.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES20_Line_Card_Installation_Guide/es20-install-guide.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_hw_install_guide.html

New Software Features in Cisco IOS Release 12.2(33)SRD

32K EVC Scale

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

802.3ah SNMP MIB

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

Access Service Network - Server Load Balancing (ASN-SLB)

http://cisco.com/en/US/docs/ios/ipapp/configuration/guide/ipapp_slb.html

Asymmetric Carrier Delay

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipspasw.html

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

Bridging Using RFC1483 Routed Encapsulation (BRE)

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipspasw.html

http://www.cisco.com/en/US/docs/routers/7600/install_config/flexwan_config/features.html

Broadcast Storm Control on Switchports and Ports Having EVCs

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

BRR - Utilizing Unused Bandwidth Support

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

CFM (802.1ag) IEEE MIB

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

CFM Outward Facing MEP on Switchports

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm.html

CISCO-NETFLOW-MIB

http://www.cisco.com/en/US/docs/ios/netflow/configuration/guide/cfg_snmp_mib_mon_nf.html

Custom Ethertype for EVC Interfaces

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

DHCP Relay Option 82 Encapsulation

http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/iad_dhcp_rly_agt.html

DHCP Snooping with Option-82 on EVC

This feature allows for DHCP snooping option 82 to be aware of EVC VLAN.

http://www.cisco.com/en/US/products/hw/routers/ps368/products_installation_and_configuration_guides_list.html

DBUS COS API on SIP-400

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipsasw.html

Dual Rate Three Color Ingress Policer on Service Instances on ES20 cards

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/es20-config-guide.html

E-OAM : CFM & PVST Coexistence

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

Ethernet-OAM 3.0: CFM over BD, Untagged

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm.html

EVC ISSU

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

EVC MIB

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

EVC on Port-Channel

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

EVC SSO

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

IEEE 802.1s on Bridge Domains

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_mst_etc_bd.html

IMA on SIP-400 for 24xT1/E1 CEOP and 1xOC3 CEOP SPAs

Adds support for Inverse Multiplexing over ATM (IMA).

http://www.cisco.com/en/US/products/hw/routers/ps368/prod_installation_guides_list.html

IP SLAs Metro-Ethernet 2.0 (EVC)

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipspasw.html

IP Source Guard for Service Instance

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

ISG: Authentication: DHCP Option 60 and Option 82 with VPN-ID Support for Transparent Automatic Logon

http://www.cisco.com/en/US/docs/ios/isg/configuration/guide/isg_auth_dhcp_op60_82.html

ISG Support for SAMI Blade

http://www.cisco.com/en/US/docs/ios/isg/configuration/guide/isg_sup_sami_blade.html

ISSU - 802.3ah OAM Support

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_oam.html

ISSU Support in CFM 802.1ag/1.0d

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm.html

ISSU Support in E-LMI

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_elmi-pe.html

L2 Access Control List on EVC

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_l2acl-etc.html

L2 Classification on Default EVC

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldcfg.html

L2TPv3 - Layer-2 Tunneling Protocol Version 3

http://www.cisco.com/en/US/docs/ios/12_3t/12_3t2/feature/guide/gt12tpv3.html

http://www.cisco.com/en/US/prod/collateral/iosswrel/ps8802/ps6970/ps1838/prod_bulletin0900aecd805ddce3.html

L2VPN Interworking: Ethernet VLAN to ATM AAL5

http://www.cisco.com/en/US/docs/ios/mps/configuration/guide/mp_l2vpn_intrntwkg.html

LACP Support for EVC Port Channel

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/es20-config-guide.html

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

MAC Address Limiting on Service Instances and Bridge-Domains

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_mac-addlmt-bdsin.html

MAC Address Security for EVC Bridge-Domain

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldcfg.html

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

Mini Protocol Analyzer

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/mpa.html>

MST on EVC Bridge-Domain

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_sw_config.html

NSF/SSO - 802.3ah OAM Support

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_oam.html

NSF/SSO Support in CFM 802.1ag/1.0d

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm.html

NSF/SSO Support in E-LMI

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_elmi-pe.html

Port Mode Cell Relay Support on Cisco 7600/SIP

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipsasw.html

http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp_any_transport.html

Private Host on Interface VLAN

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipspasw.html

RSVP Support for IP Sessions

http://www.cisco.com/en/US/docs/ios/12_2sr/release/notes/122SRrn.html

Shaping on ES20 Main Interface

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

SIP-400 HQF

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/sipspasw.html

Unidirectional Ethernet on 7600-ES20 linecards

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/es20-config-guide.html

Uni-Directional Link Detection on ES20 Ports with EVCs

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES20_config_guide/baldfc.html

Y.1731 Fault Management Functions

http://www.cisco.com/en/US/docs/ios/cether/configuration/guide/ce_cfm_y1731.html

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