



# New Features in Cisco IOS Release 12.2(33)SXI4

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The following features were introduced in Cisco IOS Release 12.2(33)SXI4. 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/switches/lan/catalyst6500/ios/12.2SX/release/notes/features.html>

See the following sections for a list of features:

- [New Hardware Features in Cisco IOS Release 12.2\(33\)SXI4, page 1](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SXI4, page 1](#)

## New Hardware Features in Cisco IOS Release 12.2(33)SXI4

- Secure Sockets Layer (SSL) Services Module (WS-SVC-SSL-1)
- 10GBASE-LRM 1310 nm MMF and SMF (SFP-10G-LRM)

## New Software Features in Cisco IOS Release 12.2(33)SXI4

**Auto Interleaved Port priority for LACP—See this publication:**

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



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**DHCP - Server Port Based Address Allocation—See this publication:**

[http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/iad\\_dhcp\\_portaddr.html](http://www.cisco.com/en/US/docs/ios/ipaddr/configuration/guide/iad_dhcp_portaddr.html)

**Energywise Phase - 2—See this publication:**

[http://www.cisco.com/en/US/docs/switches/lan/energywise/phase2/ios/configuration/guide/ew\\_v2.html](http://www.cisco.com/en/US/docs/switches/lan/energywise/phase2/ios/configuration/guide/ew_v2.html)

**Fast UDLD—See this publication:**

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

**HSRP: Global IPv6 Address—See this publication:**

<http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-fhrp.html>

**IEEE 802.1x - RADIUS Change of Authorization (CoA)—See this publication:**

[http://www.cisco.com/en/US/docs/ios/sec\\_user\\_services/configuration/guide/sec\\_cfg\\_authentifcn.html](http://www.cisco.com/en/US/docs/ios/sec_user_services/configuration/guide/sec_cfg_authentifcn.html)

**IPv6 PACL support—See this publication:**

[http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-first\\_hop\\_security.html](http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-first_hop_security.html)

**IPv6 Policy-Based Routing—See this publication:**

[http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-pol-bsd\\_rtng.html](http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-pol-bsd_rtng.html)

**IPv6 RA-Guard Host Mode—See this publication:**

[http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-first\\_hop\\_security.html](http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-first_hop_security.html)

**L2VPN Advanced VPLS (A-VPLS)—See this publication:**

[http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp\\_l2vpn\\_advanced.html](http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp_l2vpn_advanced.html)

**MPLS - Egress Netflow—See this publication:**

[http://www.cisco.com/en/US/docs/ios/netflow/configuration/guide/cfg\\_nf\\_egress\\_acctg.html](http://www.cisco.com/en/US/docs/ios/netflow/configuration/guide/cfg_nf_egress_acctg.html)

**Multicast Service Reflection—See this publication:**

[http://www.cisco.com/en/US/docs/ios/ipmulti/configuration/guide/imc\\_serv\\_reflect.html](http://www.cisco.com/en/US/docs/ios/ipmulti/configuration/guide/imc_serv_reflect.html)

**Netflow Data Export to a collector in a VRF—See this publication:**

[http://www.cisco.com/en/US/docs/ios/netflow/command/reference/nf\\_01.html#wp1049093](http://www.cisco.com/en/US/docs/ios/netflow/command/reference/nf_01.html#wp1049093)

**NSF/SSO - Virtual Private LAN Services—See this publication:**

[http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp\\_vpls\\_atom.html](http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp_vpls_atom.html)

## OSPF for Routed Access

OSPF for Routed Access OSPF for routed access is designed specifically to enable customers to extend Layer 3 routing capabilities to the access or Wiring Closet. OSPF for routed access supports only one OSPFv2 and one OSPFv3 instance with a maximum number of 200 dynamically learned routes. With the typical topology (hub and spoke) in a campus environment, where the wiring closets (spokes) are connected to the distribution switch (hub) forwarding all nonlocal traffic to the distribution layer, the wiring closet switch need not hold a complete routing table. In your best practice design, the distribution switch sends a default route to the wiring closet switch to reach inter-area and external routes (OSPF stub or totally stub area configuration). Refer to the following link for more details:

<http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/routed-ex.html>

The IP Base image supports OSPF for routed access. The Enterprise Services image is required if you need multiple OSPFv2 and OSPFv3 instances without route restrictions. Additionally, Enterprise Services is required to enable the VRF-lite feature.

## Service Advertisement Framework (SAF)—See this publication:

[http://www.cisco.com/en/US/docs/ios/saf/configuration/guide/saf\\_cg.html](http://www.cisco.com/en/US/docs/ios/saf/configuration/guide/saf_cg.html)

## SIP 400 Support on VSS—See this publication:

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

## TrustSec IPv6 SGT Learning from Data-Path—See this publication:

<http://www.cisco.com/en/US/docs/switches/lan/trustsec/configuration/guide/trustsec.html>

## TrustSec SXP SNMP and Syslogs—See this publication:

<http://www.cisco.com/en/US/docs/switches/lan/trustsec/configuration/guide/trustsec.html>

## VPLS MAC Address Withdrawal—See this publication:

[http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp\\_hvpls\\_npe\\_red.html](http://www.cisco.com/en/US/docs/ios/mpls/configuration/guide/mp_hvpls_npe_red.html)

## VSS Quad-Sup Uplink Forwarding—See this publication:

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

## VSS VSL Multicast Fast Redirect—See this publication:

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

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