



What's New in Cisco Product Documentation

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January 2009

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Coming Soon! New Edition of the Cisco Product Quick Reference Guide

The February 2009 edition of the Cisco Product Quick Reference Guide will be released on February 16, 2009. You can pre-order the guide beginning January 19, 2009 at:

<http://www.cisco.com/go/guide>

Application Networking Services

Revised Documents

- [Release Note for the Cisco Application Control Engine Module \(Software Version A2\(X\)\)](#)

Describes the resolved and open caveats, and CLI command changes for software version A2(1.3) of the ACE module.



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Cisco Interfaces and Modules

New Documents

- [1 Port OC-12c/STM-4c ATM Shared Port Adapter](#)

Describes a single-width, double-height, cross-platform optical carrier (OC) ATM adapter card that provides OC-12c/STM-4c (622.080 Mbps) connectivity and can be used in a Catalyst 6500 series switch.
- [1 Port OC-48c/STM-16 ATM Shared Port Adapter](#)

Describes a single-width, double-height, cross-platform optical carrier (OC) ATM adapter card that provides OC-48c/STM-16 (2488 Mbps) connectivity and can be used in a Catalyst 6500 series switch.
- [2-Port OC-48c/STM-16 POS SPA](#)

Describes a single-width, double-height, cross-platform optical carrier (OC) ATM adapter card that provides OC-48c/STM-16 (2488 Mbps) Packet over SONET (POS) connectivity and can be used in a Catalyst 6500 series switch.
- [2-Port and 4-Port OC-3c/STM-1 ATM SPA \(SPA-2XOC3-ATM\), \(SPA-4XOC3-ATM\)](#)

Describes single-width, double-height, cross-platform optical carrier (OC) ATM adapter cards that provides OC-3c/STM-1c (155.52 Mbps) connectivity and can be used in a Catalyst 6500 series switch.
- [AToM over GRE—Phase 2](#)

Encapsulates Multiprotocol Label Switching (MPLS) packets inside IP tunnels, creating a virtual point-to-point link across non-MPLS networks.
- [IPv6 Support for VSPA](#)

Introduces IPv6 support for the Virtual Private Network (VPN) services port adapter (VSPA).
- [Low Speed SPA Support on SIP400](#)

Extends support to T1/E1 and T3/E3 shared port adapters (SPAs) for the SIP400 WAN card.
- [SSC-600](#)

Helps enable high-performance IP security (IPsec) Virtual Private Network (VPN) services for data across a network.
- [Static Virtual Tunnel and GRE/TE Interface Enhancements](#)

Provides a routable interface type for terminating IPsec tunnels that simplifies the configuration process when you need to provide protection for remote access, and provides a simpler alternative to using generic routing encapsulation (GRE) tunnels and crypto maps with IPsec.
- [VSPA](#)

Provides IP security (IPsec) encryption and decryption, generic routing encapsulation (GRE), and Internet Key Exchange (IKE) key generation.

Revised Documents

- [Cisco 7600 Series SPA Interface Processor-600 \(7600-SIP-600\)](#)

Provides distributed forwarding with application-specific integrated circuit (ASIC) technology in the forwarding path (routing and switching, NetFlow, access control lists [ACLs]) and for queuing and shaping functions to provide the maximum performance for these features.

- [ELMI and CFM Outward Facing MEP Support for SIP-400](#)
Provides operational management of link uptime.

Cisco IOS Software

New Documents

- [Call Home](#)
Provides e-mail-based and web-based notification of critical system events.
- [IEEE 802.3ah Link Fault RFI Support](#)
Provides a per-port configurable option that moves a port into a blocking state when an Operation, Administration, and Maintenance (OAM) protocol data unit (PDU) control request packet is received with the link fault status flag set.
- [IPv6: Multicast Address Group Range Support](#)
Allows the router to keep from receiving multicast traffic from unauthenticated groups or unauthorized channels.
- [NetFlow Accounting for Unicast and Multicast on GRE Tunnel Interfaces](#)
Allows you to gather NetFlow statistics on traffic that is transmitted over a generic routing encapsulation (GRE) IP tunnel interface.
- [SSO—IPv4 Multicast HA Support for Group-to-RP Mapping](#)
Enhances multicast high availability (HA) functionality by providing support for the synchronization of dynamically learned group-to-rendezvous point (RP) mappings and bidirectional Protocol Independent Manager (bidir-PIM) designated forwarder (DF) information on the standby Route Processor (RP).

Revised Documents

- [Bandwidth-Based CAC for IP Multicast](#)
Enhances the Per Interface Mroute State Limit feature by implementing a way to count per interface mroute state limiters using cost multipliers (referred to as bandwidth-based multicast call admission control [CAC] policies).
- [BGP Route-Map Continue Support for an Outbound Policy](#)
Introduces support for continue clauses to be applied to outbound route maps.
- [CFM-2](#)
Implements the second phase of end-to-end connectivity fault management (CFM) for Ethernet networks.
- [Cisco IOS Command References](#)
Provide detailed information on platform-independent Cisco IOS commands; specifically, on command syntax, defaults, command modes, command history, usage guidelines, and examples.
- [Cisco IOS Configuration Guides](#)
Contain Cisco IOS features that are shared across releases and platforms and grouped by technology areas.

- *Configuration Generation Performance Enhancement*
Assists configuration management by enabling faster collection of running configuration file information.
- *Configuration Partitioning*
Provides modularization (“partitioning”) of the running configuration state to provide granular access to the running configuration in Cisco IOS software.
- *Configuration Rollback Confirmed Change*
Enables a rollback to occur if confirmation of a requested changes is not received within a configured time frame.
- *DHCP—DHCPv6 Relay Agent Notification for Prefix Delegation*
Manages link, subnet, and site addressing changes.
- *DHCPv6 Ethernet Remote ID Option*
Adds the remote identification (remote-ID) option to relayed (RELAY-FORWARD) Dynamic Host Configuration Protocol (DHCP)v6 packets.
- *DHCPv6—Relay Reload Persistent Interface ID Option*
Introduces persistency for the interface-identifier option after a configuration change or a router reload.
- *Dual PQ (Priority Queue)*
Allows you to create two levels of priority queues within a single policy map.
- *Enhanced Fast Software Upgrade*
Enables an increase in network availability and reduces the downtime caused by software upgrades.
- *Enhanced Object Tracking Integration with Embedded Event Manager*
Integrates Enhanced Object Tracking (EOT) with Embedded Event Manager (EEM) to allow EEM to report on a status change of a tracked object and to allow EOT to track EEM objects.
- *Ethernet Local Management Interface at a Provider Edge*
Describes an Ethernet layer Operation, Administration, and Management (OAM) protocol that provides information to enable auto configuration of customer edge (CE) devices and the status of Ethernet virtual connections (EVCs) for large Ethernet metropolitan-area networks (MANs) and WANs.
- *Ethernet OAM and Ethernet CFM Interworking*
Enables Ethernet Operation, Administration, and Maintenance (OAM) and Connectivity Fault Management (CFM) to function together in a network.
- *GLBP Client Cache*
Contains information about network hosts that are using a Gateway Load Balancing Protocol (GLBP) group as the default gateway.
- *GLBP Support for IPv6*
Provides automatic router backup for IPv6 hosts configured with a single default gateway on an IEEE 802.3 LAN.
- *HSRP for IPv6*
Allows for transparent failover of the first-hop IPv6 router.

- *HSRP Gratuitous ARP*
Configures Hot Standby Router Protocol (HSRP) to check that the entries in the Address Resolution Protocol (ARP) cache are correct and to send periodic gratuitous ARP packets from one or more HSRP active groups.
- *HSRP Group Shutdown*
Enables you to configure a Hot Standby Router Protocol (HSRP) group to become disabled (its state changed to Init) instead of having its priority decremented when a tracked object goes down.
- *HSRP Multiple Group Optimization*
Improves the negotiation and maintenance of multiple Hot Standby Router Protocol (HSRP) groups configured on a subinterface.
- *IPv6 Access Services: DHCP for IPv6 Relay Agent*
Describes a Dynamic Host Configuration Protocol (DHCP) relay agent, which may reside on the client's link, and is used to relay messages between the client and the server.
- *IPv6 ACL Extensions for Mobile IPv6*
Allows you to configure IPv6 access list entries matching Mobile-IPv6-specific Internet Control Message Protocol (ICMP) messages to match packets containing Mobile IPv6 extension headers.
- *IPv6 Routing—EIGRP Support*
Allows you to configure Enhanced Interior Gateway Routing Protocol (EIGRP) to route IPv6 prefixes.
- *IPv6 VPN over MPLS (6VPE)*
Allows Internet service providers (ISPs) to offer IPv6 Virtual Private Network (VPN) services to their customers.
- *L2VPN Pseudowire Redundancy*
Enables you to configure your network to detect a failure in the network and reroute the Layer 2 (L2) service to another endpoint that can continue to provide service.
- *MPLS EM—MPLS LSP Multipath Tree Trace*
Provides the means to discover all possible equal-cost multipath (ECMP) routing paths of a label switched path (LSP) between an egress and ingress router.
- *MPLS LSP Ping/Traceroute for LDP/TE, and LSP Ping for VCCV*
Helps service providers monitor label switched paths (LSPs) and quickly isolate Multiprotocol Label Switching (MPLS) forwarding problems.
- *MPLS VPN 6VPE Support over IP Tunnels*
Allows you to use IPv4 generic routing encapsulation (GRE) tunnels to provide IPv6 Virtual Private Network (VPN) over Multiprotocol Label Switching (MPLS) functionality to reach the Border Gateway Protocol (BGP) next hop.
- *MPLS VPN—VRF CLI for IPv4 and IPv6 VPNs*
Describes how to configure a Virtual Private Network (VPN) routing and forwarding (VRF) instance for IPv4 and IPv6 VPNs and how to upgrade your existing single-protocol IPv4-only VRF to a multiprotocol VRF configuration.
- *MPLS VPN: VRF Selection Using Policy-Based Routing*
Introduces a policy-based routing (PBR) mechanism to classify and forward Virtual Private Network (VPN) traffic based on multiple VPN routing and forwarding (VRF) selection match criteria.

- [*Per Interface Mroute State Limit*](#)
Provides the capability to limit the number of mroute states on an interface for different access control list (ACL)-classified sets of multicast traffic.
- [*Per-Session QoS*](#)
Provides the ability to apply quality of service (QoS) features (such as traffic classification, shaping, queueing, and policing) on a per-session basis.
- [*SSO—VRRP*](#)
Adds stateful switchover (SSO) support to Virtual Router Redundancy Protocol (VRRP), which is an election protocol that dynamically assigns responsibility for one or more virtual routers to the VRRP routers on a LAN, allowing several routers on a multiaccess link to use the same virtual IP address.

Cisco NX-OS Software

New Documents

- [*Cisco NX-OS Fundamentals Command Reference, Release 4.1*](#)
Describes the fundamental commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Security Command Reference, Release 4.1*](#)
Describes the security commands for Cisco NX-OS Release 4.1(2), including new features such as IPv6 ACLs and Public Key Infrastructure (PKI) support.
- [*Cisco NX-OS Security Configuration Guide, Release 4.1*](#)
Describes the security configuration information for Cisco NX-OS Release 4.1(2), including new features such as IPv6 ACLs and Public Key Infrastructure (PKI) support.
- [*Cisco NX-OS Software Upgrade and Downgrade Guide, Release 4.1*](#)
Describes the software upgrade and downgrade information for Cisco NX-OS Release 4.1(2), including compatibility with earlier Cisco NX-OS releases.
- [*Cisco NX-OS Virtual Device Command Reference, Release 4.1*](#)
Describes the VDC commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Virtual Device Context Configuration Guide, Release 4.1*](#)
Describes the VDC configuration information for Cisco NX-OS Release 4.1(2).

Revised Documents

- [*Cisco DCNM Release Notes for Release 4.1*](#)
Provides a brief summary of new features for Cisco DCNM Release 4.1(2) and lists open and resolved caveats for this release.
- [*Cisco Nexus 7000 Series Connectivity Management Processor Configuration Guide*](#)
Describes how to use the CMP.
- [*Cisco Nexus 7000 Series Documentation Roadmap*](#)
Lists the documents in the Cisco Nexus 7000, Cisco NX-OS, and Cisco DCNM Release 4.1(2).

- [*Cisco Nexus 7000 Series FPGA/EPLD Upgrade Release Notes*](#)
Provides a brief summary of the new FPGA/EPLDs for Release 4.1(2) and lists open and resolved caveats for this release.
- [*Cisco Nexus 7000 Series Hardware Installation and Reference Guide*](#)
Describes how to install a Cisco Nexus 7000 Series device.
- [*Cisco Nexus 7000 Series Regulatory Compliance and Safety Information*](#)
Lists the documentation warnings and their translations.
- [*Cisco Nexus 7000 Series Site Preparation Guide*](#)
Describes how to prepare a facility before installing a Cisco Nexus 7000 series device.
- [*Cisco NX-OS Command Reference Master Index, Release 4.1*](#)
Provides a listing of the documented Cisco NX-OS commands in alphabetical order.
- [*Cisco NX-OS Interfaces Command Reference, Release 4.1*](#)
Describes the interfaces configuration commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Interfaces Configuration Guide, Release 4.1*](#)
Describes the interfaces configuration information for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Layer 2 Switching Command Reference, Release 4.1*](#)
Describes the Layer 2 switching commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Layer 2 Switching Configuration Guide, Release 4.1*](#)
Describes the Layer 2 configuration information for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Quality of Service Command Reference, Release 4.1*](#)
Describes the QoS commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Multicast Routing Command Reference, Release 4.1*](#)
Describes the multicast routing commands for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS Multicast Routing Configuration Guide, Release 4.1*](#)
Describes the multicast routing configuration information for Cisco NX-OS Release 4.1(2).
- [*Cisco NX-OS System Messages, Release 4.1*](#)
Describes the Cisco NX-OS system messages for the Nexus 5000 series and Nexus 7000 series products.
- [*Cisco NX-OS Unicast Routing Command Reference, Release 4.1*](#)
Describes the unicast routing commands for Cisco NX-OS Release 4.1(2), including new features such as IPv6 for EIGRP and object tracking support.
- [*Cisco NX-OS Unicast Routing Configuration Guide, Release 4.1*](#)
Describes the unicast routing configuration information for Cisco NX-OS Release 4.1(2), including new features such as IPv6 for EIGRP and object tracking support.
- [*Cisco NX-OS XML Management Interface, Release 4.1*](#)
Describes the XML management interface for Cisco NX-OS Release 4.1(2).

Interoperability Systems

None at this time.

Network Management

New Documents

- [Backplane Traffic Monitoring](#)
Enables monitoring of the backplane or fabric channel traffic utilization at a configured interval and generates a syslog message when a programmable threshold is crossed.
- [CDP Enhancement—Host Presence TLV](#)
Sends a Cisco Discovery Protocol (CDP) message containing a host presence type, length, values (TLV) indicating the changed state of the IP phone's access port link to the switch.
- [Cisco DCNM Security Configuration Guide, Release 4.1](#)
Describes the security configuration information for Cisco DCNM Release 4.1(2), including IPv6 ACL support.
- [Cisco DCNM Virtual Device Context Configuration Guide, Release 4.1](#)
Describes the VDC configuration information for Cisco DCNM Release 4.1(2).

Revised Documents

- [Alarm Filtering Support in the Cisco Entity Alarm MIB](#)
Implements the alarm filter profile capability defined in the CISCO-ENTITY-ALARM-MIB.
- [Cisco DCNM Fundamentals Configuration Guide, Release 4.1](#)
Describes the fundamental configuration information for Cisco DCNM Release 4.1(2).
- [Cisco DCNM Interfaces Configuration Guide, Release 4.1](#)
Describes the interfaces configuration information for Cisco DCNM Release 4.1(2).
- [Cisco DCNM Layer 2 Switching Configuration Guide, Release 4.1](#)
Describes the Layer 2 configuration information for Cisco DCNM Release 4.1(2).
- [Cisco DCNM Unicast Routing Configuration Guide, Release 4.1](#)
Describes the unicast routing configuration information for Cisco DCNM Release 4.1(2), including new features such as HSRP support.
- [Cisco DCNM Web Services API Guide, Release 4.1](#)
Describes the API services available for Cisco DCNM Release 4.1(2).
- [CNS](#)
Describes a collection of services that can provide remote event-driven configuring of Cisco IOS networking devices and remote execution of some command-line interface (CLI) commands.
- [CNS Configuration Agent](#)
Assists in the initial configuration and subsequent partial configurations on a Cisco IOS device.

- *CNS Event Agent*

Describes the Cisco IOS infrastructure that allows Cisco IOS applications to publish and subscribe to events on a Cisco network services (CNS) event bus.
- *CNS Image Agent*

Enables the managed device to initiate a network connection and request an image download allowing devices using Network Address Translation (NAT), or behind firewalls, to access the image server.
- *CNS Interactive CLI*

Provides an XML interface that allows you to send interactive commands, such as those that generate prompts for user input, to a router.
- *Command Scheduler (KRON) Policy for System Startup*

Allows you to schedule fully qualified EXEC mode CLI commands to run once, at specified intervals, at specified calendar dates and times, or upon system startup.
- *Embedded Event Manager 2.4*

Introduces new actions and event detectors and enhancements.
- *Embedded Syslog Manager*

Provides a programmable framework that allows you to filter, escalate, correlate, route, and customize system logging messages prior to delivery by the Cisco IOS system message logger.
- *HC-ALARM-MIB*

Supports polling of Remote Monitoring (RMON) variables up to 64 bit values.
- *IP SLAs for Metro-Ethernet*

Provides the capability to gather Ethernet layer network performance metrics.
- *IP SLAs Random Scheduler*

Provides the capability to schedule multiple IP service level agreement (SLA) operations to begin at random intervals uniformly distributed over a specified duration of time and to restart at uniformly distributed random frequencies within a specified frequency range.
- *NETCONF Access for Configuration over BEEP*

Allows you to enable either the NETCONF server or the NETCONF client to initiate a connection, thus supporting large networks of intermittently connected devices and those devices that must reverse the management connection where there are firewalls and network address translators (NATs).
- *NETCONF over SSHv2*

Enables you to perform network configurations via the Cisco command-line interface (CLI) over an encrypted transport.
- *Reliable Delivery and Filtering for Syslog*

Allows you to customize a device for receipt of syslog messages.
- *SNMP over IPv6*

Describes how to configure Simple Network Management Protocol (SNMP) over an IPv6 transport so that an IPv6 host can perform SNMP queries and receive SNMP notifications from a device running Cisco IOS IPv6.

- [SNMPv3—3DES and AES Encryption Support](#)
Provides triple data encryption standard (3DES) and advanced encryption standard (AES) for message encryption.
- [Syslog over IPv6](#)
Allows you to log syslog messages to external syslog servers and hosts with IPv6 addresses.

Optical Networking

The terms “Unidirectional Path Switched Ring” and “UPSR” may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, and “Path Protected Mesh Network” and “PPMN,” refer generally to Cisco’s path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

Routers

New Documents

- [Cisco Virtual Office—End User Instructions for Cisco 871 and Cisco 881 Router Set Up at Home or Small Office](#)
Provides the end-user instructions to deploy the Cisco Virtual Office (CVO) for home or small office use.
- [Cisco Virtual Office—End User Instructions for Cisco 1811 Router Set Up at Home or Small Office](#)
Provides the end-user instructions to deploy the Cisco Virtual Office (CVO) for home or small office use.

Revised Documents

- [Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.5](#)
Provides late-breaking and cumulative release, upgrade, and installation information for release 4.5.
- [Release Notes for Cisco NAC Profiler, Release 2.1.8](#)
Provides late-breaking and cumulative release and upgrade information for Cisco NAC Profiler Release 2.1.8 (build 37).

Security

New Documents

- [FAQ and Troubleshooting Guide for Cisco Security Manager 3.2](#)
Contains up-to-date troubleshooting information and frequently asked questions. This information is generated by customer queries and developer input.

- [Guide to User Documentation for Cisco Security Manager 3.2.2](#)
Identifies and links to installation and setup information for Cisco Security Manager 3.2.2 (Security Manager 3.2.2) and Auto Update Server 3.2.2 (AUS 3.2.2).
- [IEEE 802.1x Agentless Audit Support](#)
Uses an external audit server to check the antivirus posture of clients that do not run a Cisco Trust Agent (CTA) and cannot respond to Network Admission Control (NAC) queries.
- [IEEE 802.1x—Flexible Authentication](#)
Provides a means of assigning authentication methods to ports and specifying the order in which the methods are executed when an authentication attempt fails.
- [IEEE 802.1x—Multiple Authentication](#)
Allows one 802.1X/MAC authentication bypass (MAB) client on the voice VLAN and multiple authenticated 802.1X/MAB/webauth clients on the data VLAN.
- [IEEE 802.1x—Open Authentication](#)
Allows you to have limited network access (defined by a static access control list [ACL] on the user-facing ports) without having to go through 802.1x authentication.
- [IEEE 802.1x—User Port Authentication](#)
Allows you to associate a user-defined description with an interface after a successful authentication of the host by 802.1X or MAC authentication bypass (MAB) methods.
- [Installation and Release Notes for Cisco Performance Monitor 3.2.2](#)
Describes new features available in Cisco Performance Monitor 3.2.2, provides important notes regarding the product, lists recently resolved problems and currently known problems, and provides high-level instructions for installing, upgrading to, and uninstalling Performance Monitor.
- [Installation Guide for Cisco Security Manager 3.2.2](#)
Provides requirements and procedures for installing Security Manager 3.2.2 on a Windows server and for installing dedicated client software for Security Manager 3.2.2 on a Windows PC. Includes pre- and postinstallation guidelines and troubleshooting information.
- [Release Notes for Cisco Security Manager 3.2.2](#)
Describes new features available in Security Manager 3.2.2, provides important notes regarding the product, and lists recently resolved problems and currently known problems in Security Manager 3.2.2.
- [Standalone MAB Support](#)
Grants network access to specific MAC addresses regardless of 802.1x capability or credentials.
- [Supported Devices and Software Versions for Auto Update Server 3.2.2](#)
Lists the devices and operating system versions supported by AUS 3.2.2.
- [Supported Devices and Software Versions for Cisco Performance Monitor 3.2.2](#)
Lists the devices and operating system versions supported by Cisco Performance Monitor.
- [Supported Devices and Software Versions for Cisco Security Manager 3.2.](#)
Lists the devices and operating system versions supported by Security Manager 3.2.2.
- [Trusted Flow Acceleration](#)
Lets the firewall services module (FWSM) take advantage of the processing power of the switch supervisor to increase packet throughput.

- [User Guide for Auto Update Server 3.2.2](#)
Provides detailed descriptions of all the features available in AUS 3.2.2 and procedures for implementing these features.
- [User Guide for Cisco Performance Monitor 3.2.2](#)
Provides detailed descriptions of all the features available in Cisco Performance Monitor 3.2.2 and procedures for implementing these features.
- [User Guide for Cisco Security Manager 3.2.2](#)
Provides detailed descriptions of all the features available in Security Manager 3.2.2, procedures for implementing these features, and comprehensive coverage of each field in the GUI.
- [Webauth Enhancements](#)
Allows you to customize the authproxy web page being displayed and provides redirection to an external web portal after authentication.
- [Web-Based Authentication](#)
Authenticates end users on host systems that do not run the IEEE 802.1X supplicant.

Revised Documents

- [IEEE 802.1X—Fallback Support](#)
Supports a switch port for IEEE 802.1x authentication with web authentication as a fallback.
- [IEEE 802.1X—Multidomain Authentication](#)
Allows an IP phone (Cisco or third-party) and a single host behind the IP phone to authenticate independently, using 802.1X, MAC authentication bypass (MAB), or (for the host only) web-based authentication.
- [IEEE 802.1X with ACL Assignments](#)
Allows you to use identity-based access control lists (ACLs) to assign an access control policy dynamically to an interface based on 802.1x authentication.
- [Per VRF for TACACS+ Servers](#)
Allows you to configure per virtual route forwarding (per VRF) for authentication, authorization, and accounting (AAA) on TACACS+ servers.
- [RADIUS Per-VRF Server Group](#)
Allows Internet service providers (ISPs) to partition RADIUS server groups based on virtual route forwarding (VRF).
- [Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.5](#)
Provides late-breaking and cumulative release, upgrade, and installation information for Release 4.5.
- [Release Notes for Cisco NAC Profiler, Release 2.1.8](#)
Provides late-breaking and cumulative release and upgrade information for Cisco NAC Profiler Release 2.1.8 (build 37).
- [Role-Based CLI Access](#)
Enables network administrators to restrict user access to command-line interface (CLI) and configuration information.

Server Networking and Virtualization

None at this time.

Service Exchange

None at this time.

Storage Networking

None at this time.

Switches

New Documents

- [*MST PVST Simulation Disabling and Peer Inconsistency Check*](#)
Enables you to configure switches to stop the multiple spanning tree (MST) region from interacting with per-VLAN spanning tree (PVST) regions.
- [*Multicast Enhancement—Egress Replication Performance Improvement*](#)
Limits the outgoing interface list to only the local interfaces that each replication engine supports, which prevents unnecessary processing of multicast traffic.
- [*Online Diagnostics*](#)
Contains packet switching tests that check different hardware components and verify the data path and control signals.
- [*Policy-Based Forwarding*](#)
Forwards packets from one VLAN to another VLAN without doing IP routing.
- [*Rapid PVST+ Dispute Mechanism*](#)
Allows a spanning tree protocol (STP) designated port to revert to discarding if one of its connected bridges does not receive its bridge protocol data units (BPDUs).
- [*STP Bridge Assurance*](#)
Protects against a unidirectional link failure or other software failure and a device that continues to forward data traffic when it is no longer running the spanning tree algorithm.
- [*Submillisecond Policer Burst Size Support*](#)
Provides the minimum policer burst value of 0.25 milliseconds.
- [*VSS—512 EtherChannels Support*](#)
Introduces support for a maximum of 512 EtherChannels in a virtual switching system (VSS).
- [*VSS—ACE 10/20 Support*](#)
Introduces support for the application control engine (ACE10 and ACE20) (ACE10-6500-K9 and ACE20-MOD-K9) service modules in a virtual switching system (VSS).

- [*VSS—Dual Active Detection Using L2 Fast Hello Detection*](#)
Uses special hello messages over a backup Ethernet connection to determine the state of the active chassis.
- [*VSS—Firewall Service Module Support*](#)
Introduces support for the firewall services module (FWSM) (WS-SVC-FWM-1-K9) in a virtual switching system (VSS).
- [*VSS—Intrusion Detection \(DSM\) Support*](#)
Introduces support for the intrusion detection system services module (IDSM-2) (WS-SVC-IDSM2-K9) in a virtual switching system (VSS).
- [*VSS—ACL Support*](#)
Allows you apply port-based quality of service (QoS) and port access control lists (PACLs) to any physical port in a virtual switching system (VSS).
- [*VSS—Wireless \(WiSM\) Support*](#)
Introduces support for the wireless services module (WiSM) (WS-SVC-WiSM-1-K9) in a virtual switching system (VSS).
- [*VTP v3*](#)
Introduces enhancements for the VLAN Trunking Protocol (VTP).

Revised Documents

- [*Mini Protocol Analyzer*](#)
Allows network administrators to select and then capture Layer 2 and Layer 3 protocol traffic for network diagnostics purposes.

TelePresence

None at this time.

Universal Gateways and Access Servers

None at this time.

Video, Cable, and Content Delivery

New Documents

- [*Configuration Guide for Cisco Unified Videoconferencing 3515 MCU12 and MCU24, Release 5.6*](#)
Describes how to perform basic and advanced configuration on the Cisco Unified Videoconferencing 3515 MCU12 and MCU24.

- [*Configuration Guide for Cisco Unified Videoconferencing 3522 BRI Gateway and 3527 PRI Gateway, Release 5.6*](#)

Describes how to perform basic and advanced configuration on the Cisco Unified Videoconferencing 3522 BRI Gateway and 3527 PRI Gateway.
- [*Configuration Guide for Cisco Unified Videoconferencing 3545 MCU, Release 5.6*](#)

Describes how to perform basic and advanced configuration on the Cisco Unified Videoconferencing 3545 MCU.
- [*Configuration Guide for Cisco Unified Videoconferencing 3545 PRI Gateway and 3545 Serial Gateway, Release 5.6*](#)

Describes how to perform basic and advanced configuration on the Cisco Unified Videoconferencing 3545 PRI and serial gateways.
- [*Configuration Guide for Cisco Unified Videoconferencing Manager, Release 5.6*](#)

Describes how to use the Resource Manager, the Network Manager, and the desktop component to configure and manage videoconferencing.
- [*Installation and Upgrade Guide for Cisco Unified Videoconferencing 3515 MCU12 and MCU24, Release 5.6*](#)

Describes how to install and upgrade the Cisco Unified Videoconferencing 3515 MCU.
- [*Installation and Upgrade Guide for Cisco Unified Videoconferencing 3522 BRI Gateway and 3527 PRI Gateway, Release 5.6*](#)

Describes how to install and upgrade the Cisco Unified Videoconferencing 3522 BRI Gateway and 3527 PRI Gateway.
- [*Installation and Upgrade Guide for Cisco Unified Videoconferencing 3545 MCU, Release 5.6*](#)

Describes how to install and upgrade the Cisco Unified Videoconferencing 3545 MCU.
- [*Installation and Upgrade Guide for Cisco Unified Videoconferencing 3545 PRI Gateway and 3545 Serial Gateway, Release 5.6*](#)

Describes how to install and upgrade the Cisco Unified Videoconferencing 3545 PRI and serial gateways.
- [*Installation Guide for Cisco Unified Videoconferencing Manager, Release 5.6*](#)

Describes how to install the Cisco Unified Videoconferencing Manager software and how to back up and restore its data.
- [*Integration Note for Installing and Configuring the Cisco Unified Videoconferencing Desktop Connector Plug-in, Release 5.6 with IBM Lotus Sametime*](#)

Describes to administrators how to install and configure the Cisco Unified Videoconferencing Desktop Connector plug-in for use with IBM Lotus Sametime.
- [*Integration Note for Installing and Configuring the IBM Lotus Notes Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6*](#)

Describes to administrators how to install and configure the IBM Lotus Notes plug-in for use with Cisco Unified Videoconferencing Manager.
- [*Integration Note for Installing and Configuring the Microsoft OCS Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6*](#)

Describes to administrators how to install and configure the Microsoft OCS plug-in for use with Cisco Unified Videoconferencing Manager.

- [Integration Note for Installing and Configuring the Microsoft Outlook Client Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes to administrators how to install and configure the Microsoft Outlook Client plug-in for use with Cisco Unified Videoconferencing Manager.
- [Quick Start Guide for Configuring the Microsoft OCS Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes to end users how to use the Microsoft OCS plug-in to join and moderate a videoconferencing meeting.
- [Quick Start Guide for Installing and Configuring the IBM Lotus Notes Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes to end users how to install and configure the IBM Lotus Notes plug-in and how to use the plug-in to manage videoconferencing meetings.
- [Release Notes for Cisco Unified Videoconferencing 3500 MCU, Release 5.6](#)
Describes the system requirements, supported upgrades, and caveats.
- [Release Notes for Cisco Unified Videoconferencing Gateway 3500, Release 5.6](#)
Describes the system requirements, supported upgrades, and caveats.
- [Release Notes for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes the system requirements, supported upgrades, and caveats.
- [User Guide for Cisco Unified Videoconferencing 3500 Gateway, Release 5.6](#)
Describes how to perform dialing operations.
- [User Guide for Cisco Unified Videoconferencing 3500 MCU, Release 5.6](#)
Describes how to perform dialing operations.
- [User Guide for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes how to use the web-based Resource Manager application to manage and monitor visual communication.
- [User Guide for Installing and Configuring Microsoft Outlook Plug-in for Cisco Unified Videoconferencing Manager, Release 5.6](#)
Describes to end users how to install and configure the Resource Manager Outlook client and how to manage meetings through Outlook.
- [User Guide for Using the Cisco Unified Videoconferencing Desktop Connector Plug-in, Release 5.6 with IBM Lotus Sametime](#)
Describes to end users how to install and configure the Desktop connector plug-in and how to use the plug-in to establish a Cisco Unified Videoconferencing Connector meeting from the Sametime web user interface.

Voice and Unified Communications

New Documents

- [Administration Guide for Cisco IP Communicator Release 7.0](#)
Explains how to administer and maintain the Cisco IP Communicator and related tools.
- [Release Notes for Cisco Unified MeetingPlace Express Release 2.1](#)
Contains information about this release of Cisco Unified MeetingPlace Express.

- [User Guide for Cisco IP Communicator Release 7.0](#)
Provides task-based information about how to use Cisco IP Communicator Release 7.0.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Brazilian Portuguese\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Brazilian Portuguese.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Chinese Simplified\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Chinese Simplified.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Chinese Traditional\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Chinese Traditional.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Danish\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Danish.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Dutch\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Dutch.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(European Spanish\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in European Spanish.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Italian\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Italian.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Japanese\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Japanese.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Korean\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Korean.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Latin American Spanish\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Latin American Spanish.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Russian\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Russian.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(Swedish\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in Swedish.

Revised Documents

- [Configuration and Maintenance Guide for Cisco Unified MeetingPlace Express Release 2.x](#)
Contains information about configuring and maintaining Cisco Unified MeetingPlace Express.
- [Installation and Upgrade Guide for Cisco Unified MeetingPlace Express Release 2.x](#)
Lists information for installing and upgrading Cisco Unified MeetingPlace Express Release 2.1.
- [Release Notes Cisco Phone Control and Presence 7.0\(2\) with IBM Lotus Sametime](#)
Describes system requirements, new features, changed information, documentation updates, and open caveats for Cisco Phone Control and Presence 7.0 with IBM Lotus Sametime.
- [Release Notes for Cisco Unified MeetingPlace Audio Server Release 6.x](#)
Contains information about this release of Cisco Unified MeetingPlace Audio Server.

- [Release Notes for Cisco Unified MeetingPlace Directory Services Release 5.4](#)
Contains information about this release of Cisco Unified MeetingPlace Directory Services.
- [Release Notes for Cisco Unified MeetingPlace for IBM Lotus Notes Release 6.x](#)
Contains information about this release of Cisco Unified MeetingPlace for IBM Lotus Notes.
- [Release Notes for Cisco Unified MeetingPlace for Microsoft Outlook Release 6.x](#)
Contains information about this release of Cisco Unified MeetingPlace for Microsoft Outlook.
- [Release Notes for Cisco Unified MeetingPlace H.323/SIP IP Gateway Release 5.3](#)
Contains information about this release of Cisco Unified MeetingPlace H.323/SIP IP Gateway.
- [Release Notes for Cisco Unified MeetingPlace Network Backup Gateway Release 5.3](#)
Contains information about this release of Cisco Unified MeetingPlace Network Backup Gateway.
- [Release Notes for Cisco Unified MeetingPlace SMTP Gateway Release 6.x](#)
Contains information about this release of Cisco Unified MeetingPlace SMTP Gateway.
- [Release Notes for Cisco Unified MeetingPlace Video Integration Release 5.4 and Video Administration Release 5.6](#)
Contains information about this release of Cisco Unified MeetingPlace Video Integration and Video Administration.
- [Release Notes for Cisco Unified MeetingPlace Web Conferencing Release 6.x](#)
Contains information about this release of Cisco Unified MeetingPlace Web Conferencing.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(English\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in English.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(European French\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in European French.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(French Canadian\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in French Canadian.
- [Voice Prompts for Cisco Unified MeetingPlace Express \(German\)](#)
Lists the voice prompts for Cisco Unified MeetingPlace Express in German.
- [User Guide for Cisco Unified MeetingPlace Express Release 2.x](#)
Describes how to use Cisco Unified MeetingPlace Express.

Wireless

None at this time.

Support from Cisco

Select from Cisco support opportunities at:

<http://www.cisco.com/en/US/support/index.html>

Uses for this website include:

- Obtaining technical assistance
- Downloading software
- Reporting security vulnerabilities or obtaining assistance with security involving Cisco products
- Accessing tools and resources
 - Sign up for product alerts
 - Register for field notices
 - Search for known issues using the Bug Toolkit
- Participating in technology discussions with the Networking Professionals (NetPro) community
- Accessing training resources
- Interactively identifying and troubleshooting common hardware, configuration, and performance issues using the TAC Case Collection tool

Submitting a Service Request

Open a service request online at:

<http://www.cisco.com/techsupport/servicerequest>

View a list of Cisco worldwide contacts at:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

Obtaining Additional Information

Information about Cisco products, services, technologies, and networking solutions is available from various online sources.

- Sign up for Cisco e-mail newsletters and other communications at the Cisco Subscription Center at:
<http://www.cisco.com/offer/subscribe>
- The Cisco Support website provides online resources, including documentation and tools for resolving technical issues with Cisco products. To receive security and technical information about your products, you can subscribe to the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.
<http://www.cisco.com/techsupport>
- Order the Cisco Product Quick Reference Guide, a portable, easy to use reference tool that provides an overview of Cisco products and solutions for every part of your business. Go to:
<http://www.cisco.com/go/guide>

- Visit the Cisco Services website to learn the latest technical, advanced, and remote services available to increase the operational reliability of your network. Go to:
<http://www.cisco.com/go/services>
- Visit Cisco Marketplace, the company store, for Cisco collateral, logo merchandise, Cisco Press books, and software at:
<http://www.cisco.com/go/marketplace/>
- Obtain general networking, training, and certification titles from Cisco Press publishers at:
<http://www.ciscopress.com>
- Read the Internet Protocol Journal, a quarterly journal published by Cisco for engineering professionals who design, develop, and operate internets and intranets. Go to:
<http://www.cisco.com/ipj>
- *What's New in Cisco Product Documentation* (this document) is an online publication that provides information about the latest documentation releases for Cisco products. Updated monthly, this online publication is organized by product category:
<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>
- Access international Cisco websites at:
http://www.cisco.com/public/countries_languages.shtml

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