



What's New in Cisco Product Documentation

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Cisco Product Documentation Collaboration Tools

Cisco DocWiki

Collaborate on Cisco product documentation using Cisco DocWiki:

<http://docwiki.cisco.com>

New on the Cisco DocWiki:

[*Cisco Internetworking Technology Handbook*](#)

This handbook provides guidance for understanding Cisco internetworking technology and describes different components of an internetwork and the protocols used.

NetPro Ideas Forum

Talk with other customers and Cisco technical writers. Share your ideas about Cisco documentation on the NetPro Ideas Forum.

http://forum.cisco.com/eforum/servlet/NetProf?page=Idea_Center_discussion



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Application Networking Services

Revised Documents

- [Release Note for Cisco Wide Area Application Services \(Software Version 4.1.3x\)](#)
Contains information related to the WAAS Software Version 4.1.3x maintenance release.

Cisco Interfaces and Modules

New Documents

- [Cisco WebEx Node for ASR 1000 Series \(SPA-WMA-K9\)](#)
Describes a full-height shared port adapter (SPA) designed to run an application that is part of the WebEx MediaTone network management application.

Cisco IOS and NX-OS Software

New Documents

- [3 Level Egress QoS Policy](#)
Allows three level hierarchical quality of service (QoS) policies to be applied as an egress service per physical interface or per VLAN (GE) or per subinterface (FR or serial).
- [EtherChannel Flow-Based Limited 1:1 Redundancy](#)
Provides MAC or Layer 2 traffic protection to avoid higher layer protocols from reacting to single link failures and re-converging.
- [Firewall—NetMeeting Directory \(LDAP\) ALG Support](#)
Enables Cisco firewalls to support Layer 4 Lightweight Directory Access Protocol (LDAP) inspection by default.
- [Interactive OAM and Scaling Improvements](#)
Adds on-demand ping capability to Access Node Control Protocol (ANCP) for operations and troubleshooting.
- [IP over IPv6 Tunnels](#)
Explains how to configure a generic routing encapsulation (GRE) tunnel on an IPv6 network.
- [IPv6 Multicast: IPv6 BSR—Ability to Configure RP Mapping](#)
Allows you to configure IPv6 multicast routers statically to announce scope-to-RP mappings directly from the bootstrap router (BSR) instead of learning them from candidate-RP messages.
- [IPv6 Multicast: IPv6 BSR Bidirectional Support](#)
Allows bidirectional RPs to be advertised in candidate Route Processor (C-RP) messages and bidirectional ranges in bootstrap messages (BSMs).
- [L2TP Forwarding of PPPoE Tag Information](#)
Allows you to transfer digital subscriber line (DSL) information from an L2TP access concentrator (LAC) to an L2TP network server (LNS).
- [L2VPN Interworking—Ethernet-to-VLAN Interworking](#)
Allows disparate attachment circuits to be connected.

- *L2VPN Pseudowire Redundancy: Multiple Backup Pseudowires*
Enables you to set up your network to detect a failure in the network and reroute the Layer 2 service to another endpoint that can continue to provide service.
- *Layer 2 VPN (L2VPN): Syslog, SNMP Trap, and show Command Enhancements for AToM and L2TPv3*
Describes several enhancements for AToM and L2TPv3.
- *MCP QoS on Gigabit EtherChannel Memberlinks*
Enables quality of service (QoS) policies to be applied to the main Gigabit EtherChannel (GEC) interface or port-channel memberlink.
- *Modified LNS Dead-Cache Handling*
Allows you to display and clear (restart) any Layer 2 Tunnel Protocol (L2TP) network server (LNS) entry in a dead-cache (DOWN) state.
- *NAT—NetMeeting Directory (LDAP) ALG Support*
Provides application level gateway (ALG) support for NetMeeting directory Lightweight Directory Access Protocol (LDAP) messages.
- *NAT SCCP Video Support*
Provides Skinny Call Control Protocol (SCCP) message translation support.
- *NAT—SIP ALG - Extended Methods*
Supports extended methods for the Session Initiation Protocol (SIP).
- *NAT Support of H.323v2 RAS*
Supports all H.225 and H.245 message types, including those sent in the registration, admission, and status (RAS) protocol.
- *NSF/SSO—Ethernet-to-Ethernet VLAN Interworking*
Enables stateful switchover (SSO) and nonstop forwarding (NSF) capabilities for Ethernet-to-VLAN attachment circuits.
- *Parameterization for ACL and Layer 4 Redirect*
Provides parameterization enhancements for access control lists and Layer 4 redirect.
- *Parameterization of QoS ACLs*
Provides enhancements for quality of service (QoS) access control lists (ACLs).
- *Per-Subinterface MTU for Ethernet over MPLS (EoMPLS)*
Provides you with the ability to specify maximum transmission unit (MTU) values in xconnect subinterface configuration mode.
- *RADIUS-Based Policing Attribute Modifications*
Allows the RADIUS server to communicate with the Intelligent Service Gateway (ISG) by embedding specific attributes in access-accept and CoA messages.
- *VLAN ID Rewrite*
Enables you to use VLAN interfaces with different VLAN IDs at both ends of the tunnel.
- *VDPN LNS Address Checking*
Allows an L2TP access concentrator (LAC) receiving data from an L2TP network server (LNS) to check the IP address of the LNS prior to establishing an L2TP tunnel.

Revised Documents

- [*802.1P CoS Bit Set for PPP and PPPoE Control Frames*](#)
Provides the ability to set user priority bits in the IEEE 802.1Q tagged frame to allow traffic prioritization.
- [*Any Transport over MPLS \(AToM\): Ethernet over MPLS \(EoMPLS\)*](#)
Allows you to transport Layer 2 Ethernet VLAN packets from various sources over an MPLS backbone.
- [*Any Transport over MPLS \(AToM\): Ethernet over MPLS: Port Mode \(EoMPLS\)*](#)
Describes the transport of Ethernet frames across an MPLS core.
- [*Any Transport over MPLS \(AToM\): Remote Ethernet Port Shutdown*](#)
Allows a service provider edge (PE) router on the local end of an Ethernet over MPLS (EoMPLS) pseudowire to detect a remote link failure and cause the shutdown of the Ethernet port on the local customer edge (CE) router.
- [*Any Transport over MPLS—Ethernet over MPLS Enhancements: Fast Reroute*](#)
Allows AToM to use MPLS traffic engineering (TE) tunnels with fast reroute (FRR) support.
- [*Asynchronous Call Queueing by Role*](#)
Allows Telnet connection requests to busy asynchronous rotary groups to be queued so that you automatically obtain the next available line, rather than needing to try repeatedly to open a Telnet connection.
- [*Byte-Based Weighted Random Early Detection*](#)
Explains how to enable byte-based Weighted Random Early Detection (WRED) set byte-based queue limits and WRED thresholds.
- [*Cache Control Enhancements for Certification Revocation Lists*](#)
Provides the ability to disable certificate revocation list (CRL) caching or to specify the maximum lifetime for which a CRL will be cached in router memory.
- [*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.
- [*Class-Based Quality of Service \(CBQoS\) MIB Index Enhancements*](#)
Introduces persistence across all CBQoS MIB indexes including cbQosConfigIndex, cbQosObjectsIndex, and cbQosPolicyIndex.
- [*Enabling ISG to Interact with External Policy Servers*](#)
Describes how to enable Intelligent Services Gateway (ISG) to retrieve session policies or accept dynamic updates to session policies from external policy servers.
- [*Ethernet Overhead Accounting*](#)
Enables the router to account for downstream Ethernet frame headers when applying shaping to packets.

- *IEEE 802.1Q Tunneling (QinQ) for AToM*

Allows you to configure IEEE 802.1Q Tunneling (QinQ) for AToM and also permits the rewriting of QinQ tags for Multiple Protocol Label Switching (MPLS) Layer 2 VPNs (L2VPNs).

- *IEEE 802.3ad Link Aggregation (LACP)*

Provides a method for aggregating multiple Ethernet links into a single logical channel based on the IEEE 802.3ad standard.

- *IPv6 Multicast*

Allows a host to send a single data stream to a subset of all hosts simultaneously.

- *IPv6 Multicast: BSR*

Allows an unreachable Route Processor (RP) to be detected and the mapping tables modified so that the unreachable RP is no longer used and the new tables are rapidly distributed throughout the domain.

- *IPv6 Multicast: PIM Sparse Mode (PIM-SM)*

Uses unicast routing to provide reverse-path information for multicast tree building.

- *IPv6 Multicast: Routable Address Hello Option*

Adds a protocol independent multicast (PIM) hello message option that includes all the addresses on the interface on which the PIM hello message is advertised.

- *L2VPN Pseudowire Switching*

Extends Layer 2 Virtual Private Network (L2VPN) pseudowires across an interautonomous system boundary or across two separate Multiprotocol Label Switching (MPLS) networks.

- *MQC—Traffic Shaping Overhead Accounting for ATM*

Enables a broadband aggregation system (BRAS) to account for various encapsulation types when applying quality of service (QoS) functionality to packets.

- *PPPoE Connection Throttling*

Limits PPP over Ethernet (PPPoE) connection requests to help prevent intentional denial-of-service attacks and unintentional PPP authentication loops.

- *PPPoE Service Selection*

Introduces support for service tags in PPP over Ethernet (PPPoE) discovery packets.

- *PPPoE Session Limit*

Enables you to limit the number of PPP over Ethernet (PPPoE) sessions that can be created on a router or on a Gigabit Ethernet interface for configuration.

- *PPPoE Smart Server Selection*

Allows you to configure a specific PPP over Ethernet (PPPoE) Active Discovery Offer (PADO) delay for a received PPPoE Active Discovery Initiation (PADI) packet.

- *Pseudowire Emulation Edge-to-Edge MIBs for Ethernet, Frame Relay, and ATM Services*

Provides Simple Network Management Protocol (SNMP) support within an Any Transport over Multiprotocol Label Switching (AToM) infrastructure emulating Ethernet, Frame Relay, and ATM services over packet switched networks (PSNs).

- *QoS: Class-Based Quality of Service (CBQoS) MIB Index Enhancements*

Introduces persistence across all CBQoS MIB indexes including cbQosConfigIndex, cbQosObjectsIndex, and cbQosPolicyIndex.

- [Release Notes for Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Release 2](#)
Describes new features, caveats, potential software deferrals, and related documents.

Network Management

New Documents

- [Cisco Active Network Abstraction Administrator Guide, 3.6.6](#)
Describes how to administer Cisco ANA 3.6.6.
- [Cisco Active Network Abstraction Customization User Guide, 3.6.6](#)
Describes how to customize Cisco ANA 3.6.6.
- [Cisco Active Network Abstraction Documentation Guide, 3.6.6](#)
Describes the Cisco ANA 3.6.6 documentation set.
- [Cisco Active Network Abstraction Installation Guide, 3.6.6](#)
Describes how to install Cisco ANA 3.6.6.
- [Cisco Active Network Abstraction MPLS User Guide, 3.6.6](#)
Describes how to use Cisco ANA 3.6.6 features in an MPLS environment.
- [Cisco Active Network Abstraction Release Notes, 3.6.6](#)
Describes Cisco ANA 3.6.6 open caveats and caveats resolved from earlier releases.
- [Cisco Active Network Abstraction Technology Support and Information Model Reference Manual, 3.6.6](#)
Describes the level of functionality that Cisco ANA 3.6.6 provides for the supported technologies.
- [Cisco Active Network Abstraction User Guide, 3.6.6](#)
Describes how to use Cisco ANA 3.6.6 product features.
- [Cisco Active Network Abstraction VNE Reference Guide, 3.6.6](#)
Describes the devices and technologies supported in Cisco ANA 3.6.6.
- [Cisco Broadband Access Center 3.5 Third Party and Open Source Licenses and Notices](#)
Lists the open source and third-party software details for Cisco Broadband Access Center 3.5.
- [Cisco Broadband Access Center Administrator's Guide, Release 3.5](#)
Describes concepts and configurations related to Cisco Broadband Access Center.
- [Cisco Broadband Access Center DPE CLI Reference, Release 3.5](#)
Describes the command-line interface (CLI) to access the Cisco Broadband Access Center (BAC) Device Provisioning Engine (DPE).
- [Cisco Broadband Access Center Integration Developer's Guide, Release 3.5](#)
Describes the Cisco Broadband Access Center (BAC) Application Programming Interface (API).
- [CiscoWorks LAN Management Solution 3.2 Glossary](#)
Explains the key terms and concepts used in the user guides for LMS 3.2.
- [Data Migration Guide for LAN Management Solution 3.2](#)
Describes the steps to back up data in an older version of LMS, and restore it in LMS 3.2.

- [*Documentation Guide for Cisco Unified Operations Manager 2.2*](#)
Provides pointers to product and related documentation for Operations Manager.
- [*Installation Guide for Cisco Broadband Access Center, Release 3.5*](#)
Describes general requirements and installation procedures for Cisco Broadband Access Center.
- [*Installation Guide for Cisco Unified Operations Manager 2.2*](#)
Provides steps on how to install, upgrade, and configure Operations Manager.
- [*Installation Guide for CiscoWorks Health and Utilization Monitor 1.2 \(Standalone\)*](#)
Helps you to install Health and Utilization Monitor 1.2 on Windows and Solaris.
- [*Installing and Getting Started with CiscoWorks LAN Management Solution 3.2*](#)
Helps you to install the software on Windows and Solaris. Also helps you to start using the product.
- [*Open Database Schema Support in CiscoWorks LAN Management Solution 3.2*](#)
Explains how to access database views and the schema details of LMS database views.
- [*Readme for CiscoWorks Health and Utilization Monitor 1.2 on Solaris \(Standalone\)*](#)
Explains how to install Health and Utilization Monitor 1.2 on Solaris over LMS 3.1.
- [*Readme for CiscoWorks Health and Utilization Monitor 1.2 on Windows \(Standalone\)*](#)
Explains how to install Health and Utilization Monitor 1.2 on Windows over LMS 3.1.
- [*Release Notes for Campus Manager 5.2*](#)
Explains the new features and enhancements in Campus Manager and describes the caveats for using the software on Windows and Solaris.
- [*Release Notes for Cisco Broadband Access Center, 3.5*](#)
Describes the resolved and open caveats and new features for Cisco Broadband Access Center 3.5.
- [*Release Notes for Cisco Unified Operations Manager 2.2*](#)
Provides information on new features, known and resolved caveats, and other updates for Operations Manager.
- [*Release Notes for CiscoView 6.1.9*](#)
Explains the caveats for using CiscoView on Windows and Solaris.
- [*Release Notes for CiscoWorks Assistant 1.2*](#)
Explains the caveats for using CiscoWorks Assistant on Windows and Solaris.
- [*Release Notes for CiscoWorks Common Services 3.3*](#)
Explains the new features and enhancements in Common Services and describes the caveats for using the software on Windows and Solaris.
- [*Release Notes for CiscoWorks Health and Utilization Monitor 1.2*](#)
Explains the new features and enhancements in Health and Utilization Monitor and describes the caveats for using the software on Windows and Solaris.
- [*Release Notes for CiscoWorks LMS Portal 1.2*](#)
Explains the caveats for using CiscoWorks LMS Portal on Windows and Solaris.
- [*Release Notes for Device Fault Manager 3.2*](#)
Explains the new features and enhancements in Device Fault Manager and describes the caveats for using the software on Windows and Solaris.

- [*Release Notes for Internetwork Performance Monitor 4.2*](#)
Explains the new features and enhancements in Internetwork Performance Monitor and describes the caveats for using the software on Windows and Solaris.
- [*Release Notes for Resource Manager Essentials 4.3 on Windows and Solaris*](#)
Explains the new features and enhancements in Resource Manager Essentials and describes the caveats for using the software on Windows and Solaris.
- [*Supported and Interoperable Devices and Software Table for Cisco Unified Operations Manager 2.2*](#)
Lists tested and supported devices and software that interoperate on Operations Manager.
- [*Supported Devices Tables of RME, CM, DFM, and CV \(LMS 3.2\)*](#)
Lists all devices supported in LMS 3.2.
- [*Supported Image Distribution Features for Software Management in Resource Manager Essentials 4.3*](#)
Lists the Software Management Image Distribution features for the devices supported in Resource Manager Essentials.
- [*Supported Image Import Features for Software Management in Resource Manager Essentials 4.3*](#)
Lists the Software Management Image Import features for the devices supported in Resource Manager Essentials.
- [*Supported Operating Systems Cisco Switches in Device Fault Manager 3.2*](#)
Lists the supported operating systems for Cisco switches in Device Fault Manager 3.2.
- [*Supported Protocols for Configuration Management in Resource Manager Essentials 4.3*](#)
Lists the Configuration Management protocols for the devices supported in Resource Manager Essentials.
- [*User Guide for Campus Manager 5.2*](#)
Explains the various applications and tools provided by Campus Manager and how to use them.
- [*User Guide for Cisco Unified Operations Manager 2.2*](#)
Describes how to use Operations Manager.
- [*User Guide for CiscoView 6.1.9*](#)
Explains how to display the device information using CiscoView software and how to configure the parameters for devices, cards, and interfaces.
- [*User Guide for CiscoWorks Assistant 1.2*](#)
Explains how to configure and use CiscoWorks Assistant.
- [*User Guide for CiscoWorks Common Services 3.3*](#)
Explains the services provided by Common Services for other applications and how to use these services.
- [*User Guide for CiscoWorks Health and Utilization Monitor 1.2*](#)
Explains how to monitor network elements for utilization levels and generate trend reports.
- [*User Guide for CiscoWorks LMS Portal 1.2*](#)
Explains how to display and configure portlets using LMS Portal software.

- [*User Guide for Device Fault Manager 3.2*](#)

Explains how to monitor the operational health of a network and analyze the events that occur in this environment.

- [*User Guide for Internetwork Performance Monitor 4.2*](#)

Explains how to monitor the performance of multiprotocol networks using Internetwork Performance Monitor.

- [*User Guide for Resource Manager Essentials 4.3*](#)

Describes the applications that comprise Resource Manager Essentials (RME) and provides instructions for configuring, administering, and operating these applications.

Routing and Switching Management

- [*Cisco IP Solution Center API Programmer Guide, 5.2*](#)

Describes Cisco IP Solution Center (ISC) 5.2 Application Programming Interfaces (APIs) that are available to third-party Operations Support System (OSS) products.

- [*Cisco IP Solution Center API Programmer Reference, 5.2*](#)

Provides API XML examples for Cisco IP Solution Center (ISC) 5.2.

- [*Cisco IP Solution Center Getting Started and Documentation Guide, 5.2*](#)

Provides the URLs for the complete documentation set for Cisco IP Solution Center (ISC) 5.2, explains the recommended order of using the documents and the information they contain, and provides information on how to get started using each of the ISC 5.2 components.

- [*Cisco IP Solution Center Infrastructure Reference, 5.2*](#)

Explains the common elements for Cisco IP Solution Center (ISC) 5.2, explains WatchDog commands and each of the GUI navigation paths, and provides settings and a glossary of terms for the product.

- [*Cisco IP Solution Center Installation Guide, 5.2*](#)

Provides system recommendations and describes how to install and log in to the Cisco IP Solution Center (ISC) 5.2 software.

- [*Cisco IP Solution Center L2VPN and Carrier Ethernet User Guide, 5.2*](#)

Explains how to use Layer 2 VPN and Carrier Ethernet within Cisco IP Solution Center (ISC) 5.2.

- [*Cisco IP Solution Center MPLS VPN User Guide, 5.2*](#)

Explains how to use MPLS VPN within Cisco IP Solution Center (ISC) 5.2.

- [*Cisco IP Solution Center System Error Messages, 5.2*](#)

Lists many of the System Error Messages for Cisco IP Solution Center (ISC) 5.2 and gives more detailed explanations and recommended actions.

- [*Cisco IP Solution Center Traffic Engineering Management User Guide, 5.2*](#)

Explains how to use Traffic Engineering Management (TEM) within Cisco IP Solution Center (ISC) 5.2.

- [*Cisco MPLS Diagnostics Expert 2.1.4 Failure Scenarios Guide on ISC 5.2*](#)

Details the failure scenarios and observations reported by the MPLS Diagnostics Expert (MDE) 2.1.4 application for Cisco IP Solution Center (ISC) 5.2.

- [Cisco MPLS Diagnostics Expert 2.1.4 User Guide on ISC 5.2](#)

Explains how to use the Cisco MPLS Diagnostics Expert (MDE) 2.1.4 application for Cisco IP Solution Center (ISC) 5.2.

- [Release Notes for Cisco IP Solution Center, 5.2](#)

Provides information on system recommendations, new and changed features, resolved caveats, important notes, and access to known problems for Cisco IP Solution Center (ISC) 5.2.

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.

Physical Security

None at this time.

Routers

New Documents

- [Cisco ASR 1002-F Router](#)

Describes one of the Cisco ASR 1000 Series Aggregation Services Routers, which is the smallest router that supports all the general-purpose routing and security features of the Cisco ASR 1002 routers.

- [Shared Port Adapters](#)

Introduces support for several new shared port adapters (SPAs).

Revised Documents

- [Cisco Unified Border Element \(SP Edition\)](#)

Enables direct IP-to-IP interconnection among multiple administrative domains for session-based services providing protocol interworking, security, and admission control and management.

Security

New Documents

- [AAA Interim Accounting](#)

Enables periodic interim accounting records to be sent to the accounting server.

- [ANCP \(Access Node Control Protocol\)](#)

Enhances communication between digital subscriber line access multiplexers (DSLAMs) and a broadband remote access server (BRAS), enabling the exchange of events, actions, and information requests between the multiplexer end and the server end.

- [*ANCP Phase 2.5*](#)
Allows multiple services to be activated or deactivated by a single Change of Authorization (CoA) message sent from the policy server.
- [*Cisco IOS SHA2 Support*](#)
Allows you to specify a cryptographic hash function for Cisco IOS certificate servers and clients.
- [*Cisco NAC Appliance—Clean Access Manager Installation and Configuration Guide, Release 4.6\(1\)*](#)
Describes installation and configuration of the Clean Access Manager for Cisco NAC Appliance, Release 4.6(1).
- [*Cisco NAC Appliance—Clean Access Server Installation and Configuration Guide, Release 4.6\(1\)*](#)
Describes installation and configuration of the Clean Access Server (including Failover, DHCP, AD SSO and VPN concentrator integration) for Cisco NAC Appliance, Release 4.6(1).
- [*FAQ and Troubleshooting Guide for Cisco Security Manager 3.3*](#)
Contains up-to-date troubleshooting information and frequently asked questions generated by customer queries and developer input.
- [*High Availability Installation Guide for Cisco Security Manager 3.3*](#)
Explains how to install Cisco Security Manager 3.3 in a high availability or disaster recovery environment.
- [*Installation and Release Notes for Cisco Performance Monitor 3.3*](#)
Describes new features available in Cisco Performance Monitor 3.3, provides important notes regarding the product, lists currently known caveats, and provides high-level instructions for installing, upgrading to, and uninstalling Cisco Performance Monitor 3.3.
- [*Installation Guide for Cisco Security Manager 3.3*](#)
Provides requirements and procedures for installing Cisco Security Manager 3.3 on a Windows server and for installing dedicated client software for Cisco Security Manager 3.3 on a Windows PC. Includes pre- and postinstallation guidelines and troubleshooting information.
- [*ISG: Policy Control: Policy Server: RADIUS-Based Policing*](#)
Extends Intelligent Services Gateway (ISG) functionality to allow the use of a RADIUS server to provide subscriber policy information.
- [*Multiservice Activation and Deactivation in a CoA Message*](#)
Allows multiple services to be activated or deactivated by a single Change of Authorization (CoA) message sent from the policy server.
- [*PKI-CLI to Control Certificate Revocation List \(CRL\) Cache*](#)
Allows you to control the CRL cache size.
- [*RADIUS-Based Lawful Intercept*](#)
Introduces RADIUS-based support for lawful intercept.
- [*RADIUS—CLI to Prevent Sending of Access Request with Blank Username*](#)
Describes the **aaa authentication suppress null-username** command, which provides the ability to prevent an access request with a blank username from being sent to the RADIUS server.
- [*Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.6\(1\)*](#)
Provides late-breaking and cumulative release, upgrade, and bug fix information for Release 4.6(1).

- [*Release Notes for Cisco Security Manager 3.3*](#)

Describes new features available in Cisco Security Manager 3.3, provides important notes regarding the product, and lists current and recently resolved caveats in Cisco Security Manager 3.3.

- [*RSA 4096-Bit Key Generation in Software Crypto Engine Support*](#)

Increases the maximum RSA key size from 2048 bits to 4096 bits for private key operations.

- [*SCCP for Video*](#)

Enables Cisco firewalls to inspect Skinny control packets that are exchanged between a Skinny client and the Cisco Call Manager.

- [*Security Management Guide to User Documentation for Cisco Security Manager 3.3*](#)

Identifies and links to installation and setup information for Cisco Security Manager 3.3 and Auto Update Server 3.3.

- [*Supported Devices and Software Versions for Auto Update Server 3.3*](#)

Lists the devices and operating system versions supported by Auto Update Server 3.3.

- [*Supported Devices and Software Versions for Cisco Performance Monitor 3.3*](#)

Lists the devices and operating system versions supported by Cisco Performance Monitor 3.3.

- [*Supported Devices and Software Versions for Cisco Security Manager 3.3*](#)

Lists the devices and operating system versions supported by Cisco Security Manager 3.3.

- [*User Guide for Auto Update Server 3.3*](#)

Provides detailed descriptions of all the features available in Auto Update Server 3.3 and procedures for implementing these features in your network.

- [*User Guide for Cisco Performance Monitor 3.3*](#)

Provides detailed descriptions of all the features available in Cisco Performance Monitor 3.3 and procedures for implementing these features in your network.

- [*User Guide for Cisco Security Manager 3.3*](#)

Provides detailed descriptions of all the features available in Cisco Security Manager 3.3, procedures for implementing these features in your network, and comprehensive coverage of each field in the GUI.

- [*VPN Routing Forwarding \(VRF\) Framed Route \(Pool\) Assignment via PPP*](#)

Allows you to add a subnet to a virtual routing and forwarding (VRF) instance as part of the download to a Point-to-Point (PPP) client customer provider edge (CPE) router.

- [*VRF-Aware LI \(Lawful Intercept\)*](#)

Introduces the ability to provision an LI wiretap on IPv4 data in a particular Virtual Private Network (VPN).

Revised Documents

- [*ACL—Template ACL/12 Bit ACE*](#)

Groups ACLs with many common access control elements (ACEs) into a single ACL that saves system resources.

- [*Certificate-Complete Chain Validation*](#)

Provides the ability to configure the level to which a certificate chain is processed on all certificates including subordinate certificate authority (CA) certificates.

- [*Cisco Firewall—SIP ALG Enhancements*](#)
Provides voice security enhancements within the Firewall feature set in Cisco IOS XE software on the Cisco ASR 1000 series routers.
- [*Connect-Info RADIUS Attribute 77*](#)
Enables the Network Access Server (NAS) to report Connect-Info (attribute 77) in RADIUS accounting “start” and “stop” records that are sent to the RADIUS client (dial-in modem).
- [*DHCP Server RADIUS Proxy*](#)
Describes a RADIUS-based address assignment mechanism in which a Dynamic Host Configuration Protocol (DHCP) server authorizes remote clients and allocates addresses based on replies from a RADIUS server.
- [*H.323 RAS Support in Cisco IOS Firewall*](#)
Introduces support for H.255 registration, admission, and status (RAS) signaling in Cisco IOS firewalls.
- [*IPsec Usability Enhancements*](#)
Introduces functionality that eases the configuration and monitoring of your IPsec Virtual Private Network (VPN).
- [*ISG: Accounting: Per-Service Accounting*](#)
Allows RADIUS to track when services become active and stop within a subscriber session.
- [*ISG: Policy Control: Policy Server: Multi-Service Activation in access-accept Message*](#)
Allows multiple services to be included in a single RADIUS access-accept message.
- [*Lawful Intercept*](#)
Supports service providers in meeting the requirements of law enforcement agencies to provide the ability to intercept VoIP or data traffic going through edge routers.
- [*OCSP—Server Certification from Alternate Hierarchy*](#)
Provides the flexibility to specify multiple Online Certificate Status Protocol (OCSP) servers, either per client certificate or per group of client certificates, and provides the capability for OCSP server validation based on external CA certificates or self-signed certificates.
- [*Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.1\(8\)*](#)
Provides late-breaking and cumulative release, upgrade, and caveat resolution information for Release 4.1(8).
- [*Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.5\(1\)*](#)
Provides late-breaking and cumulative release, upgrade, and caveat resolution information for Release 4.5(1).
- [*Secure Shell Version 2 \(SSHv2\) Enhancements*](#)
Describes a number of additional capabilities such as support for VRF-aware SSH, SSH debug enhancements, and Diffie-Hellman group 14 and group 16 exchange support.
- [*Switch Support for Cisco NAC Appliance*](#)
Provides Cisco NAC Appliance Out-of-Band (OOB) switch support information.

Service Exchange

None at this time.

Storage Networking

None at this time.

Switches

None at this time.

TelePresence

None at this time.

Universal Gateways and Access Servers

None at this time.

Video, Cable, and Content Delivery

Revised Documents

- [Release Notes for Cisco uBR10012 Universal Broadband Router for Cisco IOS Release 12.3BC](#)
Describes the open and closed caveats for Cisco IOS Release 12.3(23)BC8.
- [Release Notes for Cisco uBR7200 Series for Cisco IOS Release 12.3 BC](#)
Describes the open and closed caveats for Cisco IOS Release 12.3(23)BC8.

Voice and Unified Communications

New Documents

- [Accessibility Features in Cisco Unified Communications Integration for Microsoft Office Communicator Release 7.1](#)
Describes the accessibility features available in Cisco UC Integration for Microsoft Office Communicator.
- [Installation Guide for Cisco Unified Communications Integration for Microsoft Office Communicator Release 7.1](#)
Describes how to install Cisco UC Integration for Microsoft Office Communicator, how to configure servers and clients, how to deploy and upgrade, and troubleshooting information.
- [Release Notes for Cisco Unified Communications Integration for Microsoft Office Communicator Release 7.1](#)
Describes the network, server, and client computer requirements for proper Cisco UC Integration for Microsoft Office Communicator operation, lists the supported Cisco Unified IP phones, and includes limitations and caveats.
- [User Guide for Cisco Unified Communications Integration for Microsoft Office Communicator Release 7.1](#)
Describes how to use all features in Cisco UC Integration for Microsoft Office Communicator.

Cisco PGW 2200 Softswitch

- [*Cisco PGW 2200 Softswitch Enhanced Clear Channel Codec Support Feature Module*](#)

Describes expanded clear channel codec support on the Cisco PGW 2200 Softswitch. Users can make TDM data calls through the SIP network and can customize clear channel codecs that media gateways use for data calls.

- [*Cisco PGW 2200 Softswitch Enhanced Video Support Feature Module*](#)

Describes expanded video support on the Cisco PGW 2200 Softswitch. It allows users to control video call admissions and the video codec negotiation process. It also adds video call hold, call transfer, and conferencing services.

- [*Cisco PGW 2200 Softswitch Release 9.8 Provisioning Guide*](#)

Describes how to provision the Cisco PGW 2200 Softswitch Release 9.8 with tools provided with the software.

- [*Cisco PGW 2200 Softswitch Secure Real-time Transport Protocol Support Feature Module*](#)

Describes the processing of MGCP-based TDM and SIP calls that have media authentication and encryption of the Secure Real-time Transport Protocol (SRTP).

Revised Documents**Cisco BAMS**

- [*Release Notes for Cisco Billing and Measurements Server Software Release 3.30 and Related Patches*](#)

Describes the features and caveats for Billing and Measurements Server Software Release 3.30.

Cisco MNM and Cisco VSPT

- [*Release Notes for the Cisco Media Gateway Controller Node Manager, Release 2.7\(3\)*](#)

Describes the features and caveats for the Cisco Media Gateway Controller Node Manager, Release 2.7(3).

- [*Release Notes for the Cisco Voice Services Provisioning Tool, Release 2.7\(3\)*](#)

Describes the features and caveats for the Cisco Voice Services Provisioning Tool, Release 2.7(3).

Cisco PGW 2200 Softswitch

- [*Cisco PGW 2200 Softswitch Release 9.7\(3\) Quick Links*](#)

Provides links to Cisco PGW 2200 Softswitch Release 9.7(3) user documents.

- [*Cisco PGW 2200 Softswitch Release 9.8\(1\) Quick Links*](#)

Provides links to Cisco PGW 2200 Softswitch Release 9.8(1) user documents.

- [*Release Notes for the Cisco PGW 2200 Softswitch Release 9.7\(3\)*](#)

Describes the features and caveats for Cisco PGW 2200 Softswitch Release 9.7(3).

- [*Release Notes for the Cisco PGW 2200 Softswitch Release 9.8\(1\)*](#)

Describes the features and caveats for Cisco PGW 2200 Softswitch Release 9.8(1).

Wireless

None at this time.

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