



What's New in Cisco Product Documentation

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Announcing the new Summer/Fall 2008 edition of the Cisco Product Quick Reference Guide—an overview of Cisco products and solutions for every part of your business. It provides information to readers from enterprise, service provider, and small and medium-sized businesses. This is your tool for matching today's business challenges with industry-leading products and solutions from Cisco. Compact, portable, and easy-to-use reference, the guide summarizes information about many of Cisco's products sold through our channel partners. Inside the guide you will find a wealth of information, including brief product overviews, important features, technical specifications, part numbers, and ordering information.

For more information and to place your order, visit the Cisco Product Quick Reference Guide website at

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Application Networking Services

None at this time.



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Cisco Interfaces and Modules

New Documents

- [Getting Started Guide for the Cisco Unified Communications 500 Series](#)
Describes an all-in-one, simple, smart, and affordable unified communications solution designed specifically for growing businesses with 8 to 50 employees.
- [Installing AIM-IPS](#)
Describes the Cisco Intrusion Prevention System (IPS) Advanced Integration Module (AIM) for the Cisco 1841 and the Cisco 2800 and 3800 series Integrated Services Routers (ISRs).

Revised Documents

- [1-, 2-, and 4-Port T1/E1 HWICs and 8-Port T1/E1 Network Module](#)
Describes various Cisco T1/E1 high-speed WAN interface cards (HWICs) and the 8-port T1/E1 network module.
- [Application Performance Assurance Enhanced Network Modules](#)
Describes how to connect Cisco Application Performance Assurance (APA) enhanced network modules (NMEs) to your network.
- [Connecting Cisco DSU/CSU High-Speed WAN Interface Cards](#)
Describes Cisco serial and data service unit/channel service unit (DSU/CSU) high-speed WAN interface cards (HWICs) and how to connect them to a network.
- [Connecting Cisco Serial High-Speed WAN Interface Cards](#)
Describes Cisco serial and high-speed WAN interface cards (HWICs) and how to connect them to a network.
- [Connecting ISDN BRI S/T High-Speed WAN Interface Cards to a Network](#)
Describes Cisco ISDN BRI S/T high-speed WAN interface cards (HWICs) and how to connect them to a network.
- [Connecting ISDN BRI U High-Speed WAN Interface Cards to a Network](#)
Describes Cisco ISDN BRI U high-speed WAN interface cards (HWICs) and how to connect them to a network.
- [Network Capacity Expansion](#)
Describes a standalone transport-optimization engine with its own startup and run-time configurations.

Cisco IOS Software

New Documents

- [Cisco Express Forwarding Enhancements: Removal of IP Fast Switching and Introduction of CLI Changes](#)

Describes the changes based on the Cisco Express Forwarding infrastructure scalability enhancements that have been implemented to adapt to the evolution of the Internet and to support new platforms and features.
- [Cisco IOS Software Activation Storage Expansion for Cisco 2800 and 3800 Series Routers—Licensing Storage Expansion](#)

Reconfigures NVRAM in Cisco 2800 and Cisco 3800 series routers to expand storage for software licenses to 64 KB.
- [Feature Information for Flexible NetFlow—IPv6 Unicast Flows](#)

Allows you to collect flow records from IPv6 unicast packet streams.
- [Feature Information for Flexible NetFlow—Output Features on Data Export](#)

Enables sending export packets using quality of service (QoS) and encryption.
- [Feature Information for SCTP Release 4, Phase 2](#)

Adds or deletes an IP address for an endpoint of an existing Stream Control Transmission Protocol (SCTP) association and communicates this change to the remote end.
- [Implementing Dynamic Multipoint VPN for IPv6](#)

Allows you to better scale large and small IPsec Virtual Private Networks (VPNs) by combining generic routing encapsulation (GRE) tunnels, IP security (IPsec) encryption, and the Next Hop Resolution Protocol (NHRP).
- [Implementing NetFlow for IPv6](#)

Replaces the NetFlow for IPv6 feature with the IPv6 Flexible NetFlow feature.
- [IPv6 ACL Extensions for IPsec Authentication Header](#)

Allows TCP or User Datagram Protocol (UDP) parsing when an IPv6 IPsec authentication header is present.
- [IPv6 NEMO](#)

Describes how the network mobility (NEMO) basic support protocol enables mobile IPv6 networks to attach to different points in the Internet.
- [Layer 2 Forwarding, Redirection, and Return—WCCP Layer 2](#)

Allows directly connected Cisco content engines to use Layer 2 redirection, which is more efficient than Layer 3 redirection via generic routing encapsulation (GRE).
- [License Activation MIB Support](#)

Adds support for the CISCO-LICENSE-MGMT-MIB.
- [MPLS Infrastructure Changes: Introduction of MFI and Removal of MPLS LSC and LC-ATM Features](#)

Explains the Multiprotocol Label Switching (MPLS) Forwarding Infrastructure (MFI) and removal of support for the MPLS label switch controller (LSC) and label-controlled ATM (LC-ATM) features and commands.

- [*PfR Application Mapping Using NBAR*](#)
Introduces the ability to profile an application-based traffic class using Network-Based Application Recognition (NBAR).
- [*RSVP—Previous Hop Overwrite*](#)
Allows you to configure a Resource Reservation Protocol (RSVP) router on a per-interface basis to populate an address other than the native interface address in the previous hop (PHOP) address field of the PHOP object when forwarding a PATH message onto that interface.
- [*VPDN Group Selection*](#)
Configures customized, multiple virtual private dialup network (VPDN) tunnels with different VPDN group configurations between a Layer 2 Access Concentrator (LAC) and an L2TP Network Server (LNS).
- [*WCCP Mask Assignment*](#)
Introduces support for Application and Content Networking System/Wide Area Application Services (ACNS/WAAS) devices using mask assignment as a cache engine assignment method.

Revised Documents

- [*6PE Multipath*](#)
Uses multiprotocol internal Border Gateway Protocol (MP-iBGP) to distribute IPv6 routes over the Multiprotocol Label Switching (MPLS) IPv4 core network and to attach an MPLS label to each route.
- [*BGP Support for TCP Path MTU Discovery per Session*](#)
Introduces the ability for Border Gateway Protocol (BGP) to discover automatically the best TCP path maximum transmission unit (MTU) for each BGP session.
- [*Cisco Express Forwarding—SNMP CEF-MIB Support*](#)
Introduces the CISCO-CEF-MIB, which allows management applications through the use of the Simple Network Management Protocol (SNMP) to configure and monitor Cisco Express Forwarding operational data and to provide notification when Cisco Express Forwarding encounters specific configured events.
- [*Cisco IOS Command References*](#)
Provides detailed information on platform-independent Cisco IOS commands; specifically, on command syntax, defaults, command modes, command history, usage guidelines, and examples.
- [*Cisco IOS Software Activation Call-Home*](#)
Provides a robust set of commands that communicate with the Cisco licensing infrastructure, makes connections and data transfers, and provides interactive prompts to help you install and maintain software licenses.
- [*Cisco PVDM2-12DM, PVDM2-24DM, and PVDM2-36DM Digital Modem Packet Voice Data Modules*](#)
Describes high-density, Cisco digital modem packet voice data modules (Cisco PVDMs), type 2 containing 12, 24, or 36 digital modems that provide direct digital connection to ISDN PRI channels, to BRI channels, and to channel-associated signaling (CAS) digital trunk lines.
- [*Cisco Software Activation Tasks and Commands*](#)
Describes the tasks and commands used to activate software using the Cisco Software Activation feature, license keys, and Cisco EXEC commands.

- *Configuring Multicast VPN Inter-AS Support*
Introduces the IPv4 multicast distribution tree (MDT) subaddress family identifier (SAFI) in Border Gateway Protocol (BGP).
- *Configuration Rollback Confirmed Change*
Allows configuration changes to be performed with an optional requirement that they be confirmed.
- *HFC RIP Relay*
Allows the delivery of Routing Information Protocol (RIP) messages from a Cisco IOS router containing an integrated cable modem to the Hybrid Fiber-Coaxial (HFC) Cable Modem Termination system (CMTS) when they are on different subnets.
- *Implementing IPv6 VPN over MPLS (6VPE)*
Allows Internet service providers (ISPs) to offer IPv6 Virtual Private Network (VPN) services to their customers.
- *Load Sharing MPLS VPN Traffic*
Allows Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) interautonomous system and MPLS VPN carrier supporting carrier (CSC) networks to load share traffic between adjacent label switch routers (LSRs) that are connected by multiple links.
- *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 LDP—Lossless MD5 Session Authentication*
Enables a Label Distribution Protocol (LDP) session to be password-protected without tearing down and reestablishing the LDP session.
- *MPLS—LDP MD5 Global Configuration*
Provides enhancements to the Label Distribution Protocol (LDP) implementation of the message digest algorithm 5 (MD5) password.
- *MPLS—Multilink PPP Support*
Ensures that Multiprotocol Label Switching (MPLS) Layer 3 Virtual Private Networks (VPNs) with quality of service (QoS) can be enabled for bundled links.
- *MPLS TE: Link and Node Protection, with RSVP Hellos Support (with Fast Tunnel Interface Down Detection)*
Describes Fast Reroute (FRR) enhancements, including backup tunnel support, backup bandwidth protection, fast tunnel interface down detection, and Resource Reservation Protocol (RSVP) hellos.
- *MPLS Traffic Engineering—Autotunnel Mesh Groups*
Allows a network administrator to configure traffic engineering (TE) label switched paths (LSPs) by using a few command-line interface (CLI) commands.
- *MPLS Traffic Engineering—Configurable Path Calculation Metric for Tunnels*
Enables you to control the metric used in path calculation for traffic engineering (TE) tunnels on a per-tunnel basis.
- *MPLS Traffic Engineering—Fast Reroute MIB*
Provides Simple Network Management Protocol (SNMP)-based network management of the Multiprotocol Label Switching (MPLS) Fast Reroute (FRR) feature in Cisco IOS software.

- *MPLS Traffic Engineering Forwarding Adjacency*

Allows a network administrator to handle a traffic engineering (TE) label switched path (LSP) tunnel as a link in an Interior Gateway Protocol (IGP) network based on the Shortest Path First (SPF) algorithm.
- *MPLS Traffic Engineering—Interarea Tunnels*

Allows you to establish Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnels that span multiple Interior Gateway Protocol (IGP) areas and levels, removing the restriction that had required the tunnel headend and tailend routers both to be in the same area.
- *MPLS Traffic Engineering—Inter-AS TE*

Provides Autonomous System Boundary Router (ASBR) node protection, loose path reoptimization, stateful switchover (SSO) recovery of label switched paths (LSPs) that include loose hops, ASBR forced link flooding, Cisco IOS Resource Reservation Protocol (RSVP) local policy extensions for interautonomous system (Inter-AS), and per-neighbor key capabilities.
- *MPLS Traffic Engineering—LSP Attributes*

Describes how to configure label switched path (LSP) attributes for path options associated with Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnels.
- *MPLS Traffic Engineering—RSVP Graceful Restart*

Allows a neighboring Route Processor (RP) to recover from disruption in control plane service (specifically, the Label Distribution Protocol (LDP) component) without losing its Multiprotocol Label Switching (MPLS) forwarding state.
- *MPLS Traffic Engineering—RSVP Hello State Timer*

Detects when a neighbor is down and quickly triggers a state timeout, which frees resources such as bandwidth that can be reused by other label switched paths (LSPs).
- *MPLS Traffic Engineering—Shared Risk Link Groups*

Enhances backup tunnel path selection so that a backup tunnel avoids using links that are in the same Shared Risk Link Group (SRLG) as interfaces the backup tunnel is protecting.
- *MPLS Traffic Engineering (TE)—Autotunnel Primary and Backup*

Enables a router to build backup tunnels and to create one-hop primary tunnels dynamically on all interfaces that have been configured with Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnels.
- *MPLS Traffic Engineering (TE)—Class-based Tunnel Selection*

Enables you to route and forward traffic dynamically with different class of service (CoS) values onto different traffic engineering (TE) tunnels between the same tunnel headend and the same tailend.
- *MPLS Traffic Engineering (TE)—Fast Reroute (FRR) Link and Node Protection*

Supports link protection (backup tunnels that bypass only a single link of the label switched path (LSP), node protection (backup tunnels that bypass next-hop nodes along LSPs), and the following Fast Reroute (FRR) features: backup tunnel support, backup bandwidth protection, and Resource Reservation Protocol (RSVP) hellos.
- *MPLS Traffic Engineering (TE)—Path Protection*

Provides an end-to-end failure recovery mechanism (that is, full path protection) for Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnels.

- *MPLS Traffic Engineering (TE)—Scalability Enhancements*
Improves scalability performance for large numbers of traffic engineering (TE) tunnels.
- *MPLS Traffic Engineering—Verbatim Path Support*
Allows network nodes to support Resource Reservation Protocol (RSVP) extensions without supporting Interior Gateway Protocol (IGP) extensions for traffic engineering (TE), thereby bypassing the topology database verification process.
- *MPLS VPN Half-Duplex VRF*
Provides scalable hub-and-spoke connectivity for subscribers of an Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) service.
- *MPLS VPN—MIB Support*
Describes the Simple Network Management Protocol (SNMP) agent support in Cisco IOS software for Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) management, as implemented in the draft *MPLS/BGP Virtual Private Network Management Information Base Using SMIPv2* (draft-ietf-ppvpn-mpls-vpn-mib-05.txt).
- *MPLS VPN—Route Target Rewrite*
Allows the replacement of route targets on incoming and outgoing Border Gateway Protocol (BGP) updates.
- *MPLS VPN—Show Running VRF*
Provides a Cisco IOS command-line interface (CLI) option to display a subset of the running configuration on a router that is linked to a Virtual Private Network (VPN) routing and forwarding (VRF) instance.
- *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 describes how to upgrade your existing single-protocol IPv4-only VRF to a multiprotocol VRF configuration.
- *Multicast VPN Inter-AS Support*
Enables Multicast Distribution Trees (MDTs) used for multicast Virtual Private Networks (MVPNs) to span multiple autonomous systems.
- *Per-VRF Assignment of BGP Router ID*
Introduces the ability to have Virtual Private Network (VPN) routing and forwarding (VRF)-to-VRF peering in Border Gateway Protocol (BGP) on the same router.
- *PPPoEoA over ATM AAL5Mux*
Enables Point-to-Point Protocol over Ethernet (PPPoE) and bridging over ATM adaptation layer 5 (AAL5)-multiplexed permanent virtual circuits (PVCs), reducing logical link control (LLC) and Subnetwork Access Protocol (SNAP) encapsulation bandwidth usage and thereby improving bandwidth usage for the PVC.
- *QoS—Hierarchical Queueing Framework (HQF)*
Enables you to manage quality of service (QoS) at three different levels—the physical interface level, the logical interface level, and the class level of scheduling for applying QoS queueing and shaping mechanisms by using the modular QoS command-line interface (CLI) (MQC) to provide a granular and flexible overall QoS architecture.

Cisco IOS XR Software

- [Accessing Cisco IOS XR Software Release Notes](#)
Provides instructions to find release notes for Cisco IOS XR software.
- [Cisco IOS XR Advanced System Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for the following areas: ASIC drivers, troubleshooting, fabric management, tech-support command output, and watchdog.
- [Cisco IOS XR Getting Started Guide, Release 3.7](#)
Provides an introduction to the Cisco IOS XR software command-line interface (CLI) and describes the initial router configuration tasks for standalone and multishelf routers.
- [Cisco IOS XR Interface and Hardware Component Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for commands used to configure physical and virtual interfaces and additional hardware component types.
- [Cisco IOS XR Interface and Hardware Component Configuration Guide, Release 3.7](#)
Describes interface configuration and management information and describes a variety of global interfaces.
- [Cisco IOS XR IP Addresses and Services Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for commands that include Address Resolution Protocol (ARP) and access control lists (ACL)s.
- [Cisco IOS XR IP Addresses and Services Configuration Guide, Release 3.7](#)
Describes concepts and configuration tasks for IP addresses and services technologies that include ARP, access control lists (ACLs), and Cisco Express Forwarding.
- [Cisco IOS XR Modular Quality of Service Command Reference, Release 3.7](#)
Describes the commands used to display and configure quality of service (QoS) in Cisco IOS XR software.
- [Cisco IOS XR Modular Quality of Service Configuration Guide, Release 3.7](#)
Describes the Cisco IOS XR QoS feature for prioritizing traffic flows and providing preferential forwarding for higher-priority packets. The QoS techniques described include allocating bandwidth, improving loss characteristics, avoiding and managing network congestion, metering network traffic, and setting traffic-flow priorities across the network.
- [Cisco IOS XR MPLS Command Reference, Release 3.7](#)
Describes the commands used to display and configure QoS in Cisco IOS XR software.
- [Cisco IOS XR MPLS Configuration Guide, Release 3.7](#)
Describes command syntax and usage guidelines for MPLS protocols that include Label Distribution Protocol (LDP) and MPLS Resource Reservation Protocol (RSVP).
- [Cisco IOS XR Multicast Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for the multicast routing protocols that include Protocol Independent Multicast (PIM), Internet Group Management Protocol (IGMP), and Multicast Source Discovery Protocol (MSDP).
- [Cisco IOS XR Multicast Configuration Guide, Release 3.7](#)
Describes concepts and configuration tasks for the following technologies: PIM, IGMP, and MSDP.

- [Cisco IOS XR ROM Monitor Guide, Release 3.7](#)
Describes configuration information and examples for using the ROM Monitor mode of the Cisco IOS XR software, including the following subjects: ROM Monitor overview and basic procedures.
- [Cisco IOS XR Routing Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines to configure and monitor routing protocols that include Border Gateway Protocol (BGP) and Intermediate System-to-Intermediate System (IS-IS).
- [Cisco IOS XR Routing Configuration Guide, Release 3.7](#)
Describes concepts and configuration tasks for routing technologies that include BGP, EIGRP, IS-IS, and OSPF.
- [Cisco IOS XR Session Border Controller Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for Session Border Controller (SBC) applications.
- [Cisco IOS XR Session Border Controller Configuration Guide, Release 3.7](#)
Describes the tasks that support Session Border Controller (SBC) applications.
- [Cisco IOS XR System Management Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for various system management commands that include Network Time Protocol (NTP), process management, memory management, and terminal services.
- [Cisco IOS XR System Management Configuration Guide, Release 3.7](#)
Describes configuration tasks and concepts for managing services that include upgrading and managing Cisco IOS XR software packages and upgrading field-programmable devices (FPD) software.
- [Cisco IOS XR System Monitoring Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for alarm logs and logging correlation, IP Service Level Agreements (IP SLAs), fault management, logging services, performance management, On-Board Failure Logging (OBFL), and statistics services.
- [Cisco IOS XR System Monitoring Configuration Guide, Release 3.7](#)
Describes configuration tasks and concepts for the following technologies: alarm logs and logging correlation, IP Service Level Agreements (IP SLAs), fault management, logging services, performance management, and OnBoard Fault Logging (OBFL).
- [Cisco IOS XR System Security Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for areas such as Internet Key Exchange (IKE), IP security (IPsec), and Public Key Infrastructure (PKI).
- [Cisco IOS XR System Security Configuration Guide, Release 3.7](#)
Describes the tasks that support System Security applications.
- [Cisco IOS XR Virtual Firewall Command Reference, Release 3.7](#)
Describes command syntax and usage guidelines for the two command sets that support the virtual firewall (VFW) feature: Cisco IOS XR and SanOS (Linux).
- [Cisco IOS XR Virtual Firewall Configuration Guide, Release 3.7](#)
Describes the tasks that support creating, monitoring, and maintaining a virtual firewall (VFW).
- [Release Notes for Cisco IOS XR Software Release 3.7.0](#)
Describes new, changed, and unique characteristics of this release.

Interoperability Systems

None at this time.

Network Management

New Documents

- [Cisco Active Network Abstraction Administrator Guide 3.6 Service Pack 3](#)
Describes the structure and features of the Cisco ANA system. Cisco ANA Manage is the GUI client application designed to simplify and facilitate Cisco ANA administration.
- [Cisco Active Network Abstraction Customization User Guide 3.6 Service Pack 3](#)
Describes the following:
 - Managing soft properties and Threshold Crossing Alarms (TCAs).
 - Managing command scripts. Command scripts enable the user to execute a programmable sequence of SNMP or Telnet command lines.
 - Creating, running, managing, and viewing workflows using the Cisco ANA Workflow Editor, Cisco ANA Manage, and Cisco ANA EventVision.
 - Basic functions and concepts of the Broadband Query Language and Information Model Objects. Also provides basic BQL code examples.
- [Cisco Active Network Abstraction Documentation Guide 3.6 Service Pack 3](#)
Describes the documentation set for this release and explains how to get started using Cisco Active Network Abstraction 3.6 Service Pack 3.
- [Cisco Active Network Abstraction Error Messages 3.6 Service Pack 3](#)
Provides a list of system-detected errors supported by Cisco ANA and viewable in Cisco ANA EventVision.
- [Cisco Active Network Abstraction EventVision User Guide 3.6 Service Pack 3](#)
Describes the events that are logged in the Cisco ANA gateway, and how they can be viewed.
- [Cisco Active Network Abstraction Fault Management User Guide 3.6 Service Pack 3](#)
Describes the Cisco ANA event processing and parsing mechanisms. It also details the various advanced correlation scenarios, impact analysis and supported service alarms.
- [Cisco Active Network Abstraction High Availability User Guide 3.6 Service Pack 3](#)
Describes the high availability (redundancy) and protection options available for Cisco ANA units and Cisco ANA gateways.
- [Cisco Active Network Abstraction Installation Guide 3.6 Service Pack 3](#)
Describes the typical installation of Cisco ANA and the Cisco ANA client installation.
- [Cisco Active Network Abstraction Managing MPLS User Guide 3.6 Service Pack 3](#)
Describes the tools included in NetworkVision used to monitor network-based environments, specifically MPLS networks. It describes logical inventory information specific to MPLS, fault management, service impact analysis, MPLS-TE, and multipath tracing.

- [*Cisco Active Network Abstraction NetworkVision User Guide 3.6 Service Pack 3*](#)
Describes Cisco NetworkVision and its use in network-based environments.
- [*Cisco Active Network Abstraction Shell User Guide 3.6 Service Pack 3*](#)
Describes implementation guidelines of the Cisco ANA interface, basic command behavior, and the various commands supported by the Cisco ANA.
- [*Cisco Active Network Abstraction Technology Support and Information Model Reference Manual 3.6 Service Pack 3*](#)
Outlines the level of functionality that Cisco ANA provides for each supported technology.
- [*Cisco Active Network Abstraction VNE Reference Guide 3.6 Service Pack 3*](#)
Lists the devices, software versions, topologies, modules, events, and technologies that are supported on the VNEs provided with Cisco Active Network Abstraction (Cisco ANA), version 3.6 SP3.
- [*Cisco Vframe Data Center Administration Guide, Version 1.2*](#)
Describes the basic administrative functions in the VFrame Data Center.
- [*Cisco Vframe Data Center Command Reference, Version 1.2*](#)
Describes the CLI commands for the VFrame Data Center.
- [*Cisco Vframe Data Center Installation and Configuration Guide, Version 1.2*](#)
Describes how to install and configure the VFrame Data Center Director.
- [*Cisco Vframe Data Center Programmer's Guide, Version 1.2*](#)
Describes the VFrame Data Center API.
- [*Embedded Event Manager 2.4*](#)
Introduces new actions and event detectors and enhancements.
- [*Embedded Menu Manager*](#)
Provides a programmable framework that allows Cisco IOS software to present a custom, character-based menu or wizard user interface in order to guide you through complex configuration tasks.
- [*Feature Information for Configuring SNMP Support*](#)
Introduces a command-line interface (CLI) to simplify configuration of the MIBs.
- [*Feature Information for Configuring SNMP Support \(SNMP Diagnostics\)*](#)
Adds Cisco IOS command-line interface (CLI) commands to display the object identifiers that are recently requested by the network management system, and to display the Simple Network Management Protocol (SNMP) debug messages.
- [*Feature Information for TR-069 Agent \(HTTP Cookie Support Per RFC 2965\)*](#)
Introduces support for Netscape cookies and RFC 2965 in HTTP client infrastructure.
- [*Feature Information for TR-069 Agent \(HTTP Digest Authentication Support\)*](#)
Introduces support for digest authentication from the HTTP client infrastructure.
- [*Packet Capture Infrastructure*](#)
Describes an onboard packet capture facility that provides device management and tools for automation.

- [Release Notes for Cisco Active Network Abstraction, Version 3.6 Service Pack 3](#)
Describes the features and caveats for Cisco ANA 3.6 Service Pack 3.
- [Release Notes for Cisco IP Solution Center, 5.0.3](#)
Provides information on system recommendations, new and changed information, problems fixed, installation notes, important notes, access to known caveats, and related documentation for Cisco IP Solution Center (ISC) 5.0.3.
- [TR-069 Agent](#)
Manages a collection of customer premise equipment (CPE), with the primary capability for autoconfiguration and dynamic service provisioning, software image management, status, and performance monitoring and diagnostics.
- [XML-PI](#)
Leverages the Network Configuration Protocol (NETCONF) and offers new data models that collect show command output down to the keyword level and running configurations without the complexity and expense of screen-scraping technologies or external eXtensible Markup Language (XML)-to-command-line interface (CLI) gateways.

Revised Documents

- [CNS Agents](#)
Describes the Cisco Networking Services (CNS) subsystem agents that link you to networking services and provide the infrastructure for the automated configuration of large numbers of network devices in IPv6.
- [Config Logger](#)
Tracks and reports configuration changes in IPv6.
- [HTTP\(S\) IPv6 Support](#)
Enhances Hypertext Transfer Protocol server [HTTP(S)] client and server to support IPv6 addresses.
- [IP SLAs for IPv6](#)
Describes the Cisco IOS IP Service Level Agreements (SLAs) that are supported in IPv6.
- [IP SLAs for Metro-Ethernet](#)
Provides the capability to gather Ethernet-layer network performance metrics.
- [NETCONF](#)
Describes the Network Configuration (NETCONF) protocol, which is a mechanism through which a network device can be managed, configuration data information can be retrieved, and new configuration data can be uploaded and manipulated in IPv6 and IPv4.
- [Periodic MIB Data Collection and Transfer Mechanism](#)
Enables Simple Network Management Protocol (SNMP) configuration of periodic MIB data collection and transfer mechanism.
- [SOAP Message Format](#)
Describes the Service-Oriented Access Protocol (SOAP), which is used for exchanging structured information in a decentralized, distributed environment in IPv6 and IPv4.

- [TCL](#)
Describes the tool command language (TCL), which is used in IPv6 to support features such as embedded syslog manager (ESM), embedded event manager (EEM), interactive voice response (IVR), and tclsh parser mode.

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 1805 DOCSIS Cable Router Product Description](#)
Describes the Cisco 1805 Data-over-Cable Service Interface Specifications (DOCSIS) cable router.
- [Cisco VGD 1T3 Voice Gateway Card Installation Guide](#)
Describes how to install channelized T3 and voice digital feature cards supported on the Cisco VGD 1T3 Voice Gateway.
- [Cisco VGD 1T3 Voice Gateway Chassis Installation Guide](#)
Describes how to install the Cisco VGD 1T3 Voice Gateway Chassis.
- [Cisco VGD 1T3 Voice Gateway Software Configuration Guide, Release 12.4\(20\)YA](#)
Provides information on how to configure software for the Cisco VGD 1T3 Voice Gateway in Cisco IOS+D61 software.
- [Quick Start Guide for the Cisco 1861 Integrated Services Router](#)
Describes a router in the Cisco 1800 series Integrated Services Router (ISR) family.
- [Release Notes for Cisco 1800 Series Routers with Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco 1800 series routers that support Cisco IOS Release 12.4(20)YA.
- [Release Notes for Cisco 2800 Series Integrated Services Routers with Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco 2800 series Integrated Services Routers that support Cisco IOS Release 12.4(20)YA.
- [Release Notes for Cisco 3800 Series Integrated Services Routers with Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco 3800 series Integrated Services Routers that support Cisco IOS Release 12.4(20)YA.
- [Release Notes for Cisco AS5x00 Universal Gateways with Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco AS5x00 Universal Gateways that support Cisco IOS Release 12.4(20)YA.

- [Release Notes for Cisco VG224 Analog Gateway for Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco VG224 Analog Gateway that supports Cisco IOS Release 12.4(20)YA.
- [Release Notes for Cisco VGD 1T3 Voice Gateway with Cisco IOS Release 12.4\(20\)YA](#)
Describes new features and significant components for the Cisco VGD 1T3 Voice Gateway that supports Cisco IOS Release 12.4(20)YA.

Revised Documents

- [Release Notes for Cisco 800 Series Integrated Services Routers with Cisco IOS Release 12.4\(15\)XZ](#)
Describes new features and significant software components for the Cisco 800 series Integrated Services Routers (ISRs) that support Cisco IOS Release 12.4(15)XZ1.
- [Release Notes for Cisco 1800 Series Routers with Cisco IOS Release 12.4\(11\)XW](#)
Describes new features and significant software components for the Cisco 1800 series routers that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [Release Notes for Cisco 2800 Series Integrated Services Routers with Cisco IOS Release 12.4\(11\)XW](#)
Describes new features and significant software components for the Cisco 2800 series routers that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [Release Notes for Cisco 2800 Series Integrated Services Routers with Cisco IOS Release 12.4\(15\)XY](#)
Describes new features and significant components for the Cisco 2800 series Integrated Services Routers that support Cisco IOS Release 12.4(15)XY4.
- [Release Notes for Cisco 2800 Series Integrated Services Routers with Cisco IOS Release 12.4\(15\)XZ](#)
Describes new features and significant components for the Cisco 2800 series Integrated Services Routers that support Cisco IOS Release 12.4(15)XZ1.
- [Release Notes for Cisco 3700 Series Integrated Services Routers with Cisco IOS Release 12.4\(11\)XW](#)
Describes new features and significant software components for the Cisco 3700 series routers that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [Release Notes for Cisco 3800 Series Integrated Services Routers with Cisco IOS Release 12.4\(11\)XW](#)
Describes new features and significant software components for the Cisco 3800 series routers that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [Release Notes for Cisco 3800 Series Integrated Services Routers with Cisco IOS Release 12.4\(15\)XY](#)
Describes new features and significant components for the Cisco 3800 series Integrated Services Routers that support Cisco IOS Release 12.4(15)XY4.
- [Release Notes for Cisco 3800 Series Integrated Services Routers with Cisco IOS Release 12.4\(15\)XZ](#)
Describes new features and significant components for the Cisco 3800 series Integrated Services Routers that support Cisco IOS Release 12.4(15)XZ1.

- [*Release Notes for Cisco AS5x00 Universal Gateways with Cisco IOS Release 12.4\(11\)XW*](#)
Describes new features and significant software components for the Cisco AS5350, Cisco AS5350XM, Cisco AS5400, Cisco AS5400HPX, Cisco AS5400XM, and Cisco AS5850-ERSC Universal Gateways that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [*Release Notes for Cisco AS5x00 Universal Gateways with Cisco IOS Release 12.4\(15\)XY*](#)
Describes new features and significant components for the Cisco AS5x00 Universal Gateways that support Cisco IOS Release 12.4(15)XY4.
- [*Release Notes for Cisco IAD2430 Series Integrated Access Devices with Cisco IOS Release 12.4\(11\)XW*](#)
Describes new features and significant software components for the Cisco IAD2430 series Integrated Access Devices that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [*Release Notes for Cisco IAD2430 Series Integrated Access Devices with Cisco IOS Release 12.4\(15\)XY*](#)
Describes new features and significant components for the Cisco IAD2430 series Integrated Access Devices that support Cisco IOS Release 12.4(15)XY4.
- [*Release Notes for Cisco IAD2801 Series Integrated Access Devices with Cisco IOS Release 12.4\(11\)XW*](#)
Describes new features and significant software components for the Cisco IAD2801 series Integrated Access Devices that support the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [*Release Notes for Cisco IAD2801 Series Integrated Access Devices with Cisco IOS Release 12.4\(15\)XY*](#)
Describes new features and significant software components for the Cisco IAD2801 series Integrated Access Devices that support Cisco IOS Release 12.4(15)XY4.
- [*Release Notes for Cisco IAD2801 Series Integrated Access Devices with Cisco IOS Release 12.4\(15\)XZ*](#)
Describes new features and significant components for the Cisco IAD2801 Integrated Access Devices that support Cisco IOS Release 12.4(15)XZ1.
- [*Release Notes for Cisco Secure Router 500 Series with Cisco IOS Release 12.4\(15\)XZ*](#)
Describes new features and significant software components for the Cisco Secure Router 500 series that support Cisco IOS Release 12.4(15)XZ1.
- [*Release Notes for the Cisco 800 Series Routers with Cisco IOS Release 12.4\(11\)XW*](#)
Describes new features and significant software components for the Cisco 800 series routers that support Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.
- [*Release Notes for the Cisco 800 Series Routers with Cisco IOS Release 12.4\(15\)XY*](#)
Describes new features and significant components for the Cisco 800 series routers that support Cisco IOS Release 12.4(15)XY4.
- [*Release Notes for the Cisco 1800 Series Routers with Cisco IOS Release 12.4\(15\)XY*](#)
Describes new features and significant components for the Cisco 1800 series routers that support Cisco IOS Release 12.4(15)XY4.

- [Release Notes for the Cisco VG224 Analog Gateway for Cisco IOS Release 12.4\(11\)XW](#)

Describes new features and significant software components for the Cisco VG224 Analog Gateway that supports the Cisco IOS Release 12.4(11)XW releases, up to and including Cisco IOS Release 12.4(11)XW9.

Security

New Documents

- [Application Inspection and Control for Simple Mail Transfer Protocol \(SMTP\)](#)

Provides an intense provisioning mechanism that you can configure to inspect packets on a granular level so that malicious network activity, related to the transfer of e-mail at the application level, can be identified and controlled.

- [Cisco IOS Firewall H.323 Support](#)

Introduces support for a range of H.323 Version 3 and Version 4 features and for a rate-limiting mechanism to monitor call attempt rate and call aggregation.

- [Cisco IOS Firewall Support for Skinny Local Traffic and CME](#)

Enhances the Context-Based Access Control (CBAC) functionality to support skinny traffic that is either generated by or destined to a router.

- [Cisco NAC Appliance—Clean Access Manager Installation and Configuration Guide, Release 4.1\(6\)](#)

Describes installation and configuration of the Clean Access Manager via the CAM web console for Cisco NAC Appliance, Release 4.1(6).

- [Cisco NAC Appliance—Clean Access Server Installation and Configuration Guide, Release 4.1\(6\)](#)

Describes installation and configuration of the Clean Access Server (including Failover, DHCP, AD SSO, and VPN concentrator integration) for Cisco NAC Appliance, Release 4.1(6).

- [cTCP Support on Easy VPN Clients](#)

Describes the Cisco Tunneling Control Protocol (cTCP), which you can use when an easy Virtual Private Network (VPN) client (remote device) is operating in an environment in which standard IPsec does not function or in which it does not function transparently without modification to existing firewall rules.

- [Feature Information for Zone-Based Policy Firewall](#)

Introduces support for instant messaging (IM) applications ICQ and Windows Messenger.

- [IPsec Usability Enhancements](#)

Introduces functionality that eases the configuration and monitoring of your IPsec Virtual Private Network (VPN).

- [NHRP MIB for DMVPN Networks](#)

Introduces support for the Next Hop Resolution Protocol (NHRP) MIB, which helps to manage and monitor NHRP via the Simple Network Management Protocol (SNMP).

- [Object Groups for ACLs](#)

Allows you to classify users, devices, or protocols into groups and apply them to access control lists (ACLs) to create access control policies for those groups.

- [Release Notes for Cisco NAC Appliance \(Cisco Clean Access\), Version 4.1\(6\)](#)
Provides late-breaking and cumulative release, upgrade, and installation information for release 4.1(6).
- [Secure Device Provisioning \(SDP\) Connect Template](#)
Provides the ability to configure a device for Internet connectivity through a service provider.
- [Secure Shell Version 2 Enhancements](#)
Includes a number of additional capabilities such as supporting virtual routing and forwarding (VRF)-aware Secure Shell (SSH), SSH debug enhancements, and Diffie-Hellman group exchange support.
- [SSL VPN—Access Control Enhancements](#)
Allows administrators to configure automatic authentication and authorization.
- [SSL VPN—AnyConnect Client Support](#)
Adds support for several client-side platforms, such as Microsoft Windows, Apple-Mac, and Linux.
- [SSL VPN—Back End HTTP Proxy](#)
Allows administrators to route user requests through a backend Hypertext Transfer Protocol (HTTP) proxy, providing more flexibility and controllability than routing requests through internal web servers.
- [SSL VPN—Full-Tunnel CEF Support](#)
Provides better performance for full-tunnel packets.
- [SSL VPN—Stateless High Availability with HSRP](#)
Allows stateless failover to be applied to Virtual Private Network (VPN) routers by using Hot Standby Router Protocol (HSRP).
- [SSL VPN—URL Rewrite Splitter](#)
Allows administrators to mangle selective URLs.
- [User Based Firewall Support](#)
Provides the option for configuring a security solution to authenticate and enforce policies dynamically on a per-user basis.
- [VRF Aware Cisco IOS IPS](#)
Describes a mechanism that allows multiple instances of a routing table to exist on a router and work simultaneously so that network paths can be segregated without using multiple devices, thereby increasing network security and eliminating the need for encryption and authentication.

Cisco Security Agents 6.0

- [Installing Management Center for Cisco Security Agents 6.0](#)
Provides installation instructions for Management Center for Cisco Security Agents.
- [Release Notes for Management Center for Cisco Security Agents 6.0](#)
Describes the new features, licensing requirements, system requirements, and supported languages for the Management Center for Cisco Security Agent V6.0.
- [Using Management Center for Cisco Security Agents 6.0](#)
Describes how to configure the Management Center for Cisco Security Agents in both Advanced Mode and Simple Mode.

Cisco Security Manager 3.2.1

- [Guide to User Documentation for Cisco Security Manager 3.2.1](#)
Identifies and links to installation and setup information for Cisco Security Manager 3.2.1 (Security Manager 3.2.1) and Auto Update Server 3.2 (AUS 3.2).
- [Installation Guide for Cisco Security Manager 3.2.1](#)
Provides requirements and procedures for installing Security Manager 3.2.1 on a Windows server and for installing dedicated client software for Security Manager 3.2.1 on a Windows PC. Includes pre- and postinstallation guidelines and troubleshooting information.
- [Release Notes for Cisco Security Manager 3.2.1](#)
Describes new features available in Security Manager 3.2.1, provides important notes regarding the product, and lists recently resolved problems and currently known problems in Security Manager 3.2.1.
- [Supported Devices and Software Versions for Cisco Security Manager 3.2.1](#)
Lists the devices and operating system versions supported by Security Manager 3.2.1.
- [User Guide for Cisco Security Manager 3.2.1](#)
Provides detailed descriptions of all the features available in Security Manager 3.2.1, procedures for implementing these features in your network, and comprehensive coverage of each field in the GUI.

Revised Documents

- [Cisco IOS Firewall: SIP Enhancements: ALG and AIC](#)
Provides voice security enhancements within the firewall feature set in Cisco IOS software.
- [CISCO-IP-URPF-MIB Support](#)
Provides Simple Network Management Protocol (SNMP) notification when a specified Unicast Reverse Path Forwarding (URPF) drop-rate threshold on a managed device is exceeded.
- [Cisco NAC Appliance Service Contract/Licensing Support](#)
Describes licensing support and RMA for the Cisco NAC Appliance, the Cisco NAC Profiler, and the Cisco NAC Guest Server.
- [Cisco NAC Profiler Installation and Configuration Guide, Release 2.1.8](#)
Describes how to install and configure the Cisco NAC Profiler Server appliance and enables the Cisco NAC Profiler Collector component on the Cisco NAC Appliance Clean Access Server.
- [Ethernet CFM](#)
Describes an end-to-end per-service-instance Ethernet-layer operation, administration, and management (OAM) protocol.
- [Subscription-based Cisco IOS Content Filtering](#)
Interacts with the Trend Micro URL filtering service so that Hypertext Transfer Protocol server [HTTP(S)] requests can be allowed or blocked, and logged, based on a content filtering policy.
- [Supported Hardware and System Requirements for Cisco NAC Appliance \(Cisco Clean Access\)](#)
Provides a hardware support list and system requirements for the Clean Access Manager/Server/Agent.

- [Throttling of AAA \(RADIUS\) Records](#)

Supports throttling of access (authentication and authorization) and accounting records that are sent to the RADIUS server so that you can configure the appropriate throttling rate to avoid network congestion and instability, such as when there is insufficient bandwidth to accommodate a sudden burst of records generated from the Cisco IOS router to the RADIUS server.

Server Networking and Virtualization

None at this time.

Service Exchange

None at this time.

Storage Networking

Revised Documents

- [Cisco MDS 9000 Family CLI Configuration Guide, Release 3.x](#)
Describes how to configure IP static peers; install and upgrade the SSI on the SSM, MSM-18/4, and MDS 9222i switch; support IPv6 on Gigabit Ethernet ports; and apply an IP-ACL to the management interface.
- [Cisco MDS 9000 Family Command Reference, Release 3.x](#)
Describes various new commands.
- [Cisco MDS 9000 Family Fabric Manager Configuration Guide, Release 3.x](#)
Describes how to configure NPV traffic management; SANTap DVT MSM; RMON 32- and 64-bit alarms; and inventory summary detail reports.
- [Cisco MDS 9000 Family MIB Quick Reference](#)
Includes the NPV-Traffic Management-MIB.
- [Cisco MDS 9000 Family Storage Services Module Software Installation and Upgrade Guide](#)
Describes the guidelines to upgrade to Cisco MDS SAN-OS Release 3.4(1).
- [Cisco MDS SAN-OS Release Compatibility Matrix for Storage Services Interface Images](#)
Provides compatibility information between Cisco MDS SAN-OS software releases and Storage Service Interface (SSI) releases.

Switches

None at this time.

TelePresence

None at this time.

Universal Gateways and Access Servers

Revised Documents

- [High-Density Packet Voice Feature Card for Cisco AS5350XM and AS5400XM Universal Gateways](#)
Supports up to six high-density packet voice/fax digital signal processor (DSP) modules providing scalability from 64 to 384 channels.

Video, Cable, and Content Delivery

None at this time.

Voice and Unified Communications

New Documents

- [Accessibility Features in Cisco Unified Personal Communicator for Macintosh, Release 7.0](#)
Describes Macintosh keyboard shortcuts and accessibility procedures unique to the Cisco Unified Personal Communicator.
- [Accessibility Features in Cisco Unified Personal Communicator for Windows, Release 7.0](#)
Describes Windows keyboard shortcuts and accessibility procedures unique to the Cisco Unified Personal Communicator.
- [Cisco Unity Express 3.2 Command Reference](#)
Provides an alphabetical reference of +D16 Cisco Unity Express 3.2 commands.
- [Cisco Unity Express 3.2 GUI Administrator Guide](#)
Provides information on how to configure and administer Cisco Unity Express 3.2 voice mail and autoattendant using the graphical user interface.
- [Cisco Unity Express 3.2 Installation and Upgrade Guide](#)
Describes how to install and upgrade to Cisco Unity Express version 3.2.
- [Cisco Unity Express 3.2 Sesli Posta Sistemi Hizli Ba?langiç Kilavuzu](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System Quick Start Guide* in Turkish.
- [Cisco Unity Express 3.2 Sesli Posta Sistemi Geli?mi? Özellikler için Kullan?c? K?lavuzu](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Turkish.

- [*Cisco Unity Express 3.2 Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions*](#)
Provides information on how to configure and administrator Cisco Unity Express 3.2 voice mail and autoattendant using the command-line interface.
- [*Cisco Unity Express VoiceView Express Sürüm 3.2 Hizli Ba?langiç Kilavuzu*](#)
Contains the *Cisco Unity Express 3.2 VoiceView Express Quick Start Guide* in Turkish.
- [*Configuring Cisco Unity Express 3.2 Using the GUI Interface: Administrator User Mode for All Licenses*](#)
Provides information on how to configure Cisco Unity Express 3.2 at the administrator user privilege level for all licenses.
- [*Configuring Cisco Unity Express 3.2 Using the GUI Interface: Privilege Mode for Cisco Unified Communications Manager Express Licenses*](#)
Provides information on how to configure Cisco Unity Express 3.2 at the privileged level using the graphical user interface for Cisco Unified Communications Manager Express licenses.
- [*Configuring Cisco Unity Express 3.2 Using the GUI Interface: Privilege Mode for Cisco Unified Communications Manager Licenses*](#)
Provides information on how to configure Cisco Unity Express 3.2 at the privileged level using the graphical user interface for Cisco Unified Communications Manager licenses.
- [*Configuring Delayed-Offer to Early-Offer for SIP Audio Calls*](#)
Alters the default configuration of the Cisco Unified Border Element (BE) from not distinguishing Session Initiation Protocol (SIP) delayed-offer to early-offer call flows, to forcing the Cisco Unified BE to generate an early offer with the configured codecs for an incoming delayed-offer INVITE.
- [*Configuring Enhanced 911 Services*](#)
Routes callers dialing 911 to the correct location and when necessary modifies the calling party number to identify where the caller is located.
- [*Configuring Extended Interzone Clear Token Support*](#)
Provides the ability for terminating gatekeeper (TGK) or originating gatekeeper (OGK) to compute the Inter-Zone Clear Token (IZCT) hash token based on the destination alias, destination CSA, destination epid, source alias, source CSA, and source epid.
- [*Configuring Media Flow-Around*](#)
Adds media flow-around capability on the Cisco Unified Border Element by supporting the processing of call setup and teardown requests (VoIP call signaling) and for media streams (flow-through and flow-around).
- [*Feature Information for SIP-to-SIP Connections on a Cisco Unified Border Element*](#)
Expands the ability of the Cisco Unified Border Element to receive a REINVITE that contains either a session refresh parameter or a change in media via a new Session Description Protocol (SDP) and ensures the session does not time out.
- [*Installation and Configuration Guide for Cisco Unified Personal Communicator Release 7.0*](#)
Provides installation and configuration information for Cisco Unified Personal Communicator Release 7.0.
- [*Quick Start Guide: Cisco Unified Personal Communicator for Macintosh, Release 7.0*](#)
Provides quick start information on how to use Cisco Unified Personal Communicator on a Macintosh platform.

- [Quick Start Guide: Cisco Unified Personal Communicator for Windows, Release 7.0](#)
Provides quick start information on how to use Cisco Unified Personal Communicator on a Windows platform.
- [Release Notes for Cisco Unity Express 3.2](#)
Describes new features and significant components for Cisco Unity Express 3.2.
- [User Guide for Cisco Unified Personal Communicator for Macintosh, Release 7.0](#)
Explains the various features provided by the Cisco Unified Personal Communicator and how to use them on a Macintosh platform.
- [User Guide for Cisco Unified Personal Communicator for Windows, Release 7.0](#)
Explains the various features provided by the Cisco Unified Personal Communicator and how to use them on a Windows platform.

Revised Documents

- [AMR-NB and iLBC Codec Support for MGCP](#)
Describes two codecs that are available for use with the Media Gateway Control Protocol (MGCP).
- [Cisco Unified CME Overview](#)
Describes a call-processing application in Cisco IOS software that enables Cisco routers to deliver key-system or hybrid PBX functionality for enterprise branch offices or small businesses.
- [Cisco Unified Communications Manager Express System Administrator Guide](#)
Describes how to configure and administer Cisco Unified Communications Manager Express. Contains information on new functionality in Cisco IOS Release 12.4(20)YA.
- [Cisco Unified SRST System Administrator Guide Overview](#)
Provides Cisco Unified Communications Manager with fallback support for Cisco IP phones that are attached to a Cisco router on your local network.
- [Cisco Unity Express 3.2 Voice-Mail-System Benutzerhandbuch – Erweiterte Funktionen](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in German.
- [Cisco Unity Express 3.2 Voice-Mail System Brugervejledning til avancerede funktioner](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Danish.
- [Cisco Unity Express 3.2 Voice-Mail System Quick Start Guide](#)
Provides quick start information on how to use Cisco Unity Express 3.2 voice mail.
- [Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features](#)
Provides information on how to use advanced features in Cisco Unity Express 3.2 voice mail.
- [Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features—U.K. Version](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* for the United Kingdom.
- [Cisco Unity Express 3.2 röstmeddelandesystem Användarhandbok för avancerade funktioner](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Swedish.

- [*Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features—Japanese Version*](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Japanese.
- [*Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features—Korean Version*](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Korean.
- [*Cisco Unity Express Voice-Mail System User's Guide for Advanced Features \(Mandarin Chinese\)*](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Mandarin Chinese.
- [*Cisco Unity Express 3.2-voice-mail systeem Gebruikershandleiding voor geavanceerde functies*](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Dutch.
- [*Cisco Unity Express VoiceView Express Quick Start Guide Version 3.2*](#)
Provides quick information on how to access and use Cisco Unity Express 3.2 voice-mail through Cisco IP phone touch-screens.
- [*Configurable Bandwidth Parameters for SIP Calls*](#)
Provides the ability to configure manually the bandwidth that is signaled in the outbound Session Initiation Protocol (SIP) invite.
- [*Configuring Extension Mobility*](#)
Provides phone mobility support for end users.
- [*Configuring Security*](#)
Describes the phone authentication support in Cisco Unified Communications Manager Express (Cisco Unified CME) and the media encryption using Secure Real-Time Transport Protocol (SRTP) and H.323 protocols on Cisco Unified CME.
- [*DSP Voice Quality Metrics Guide*](#)
Provides a set of voice quality metrics through the syslog and command-line interface (CLI).
- [*Enhanced ARQ and RRQ Security for Gatekeeper Registrations*](#)
Provides additional security checks upon receiving the registration request (RRQ) from an endpoint.
- [*Feature Information for File Accounting*](#)
Describes a method of capturing accounting records in comma separated value (.csv) format and storing the records on a file in internal flash or to an external FTP server.
- [*Feature Information for SIP-to-SIP Connections on a Cisco Unified Border Element \(SIP Listening Port\)*](#)
Allows you to configure the port that Session Intiation Protocol (SIP) messages are listened on.
- [*Feature Information for SIP-to-SIP Connections in a Cisco Unified Border Element \(SIP Parameter Modification\)*](#)
Allows you to change the standard Session Intiation Protocol (SIP) messages sent from the Cisco SIP stack for better interworking with different SIP entities.
- [*Feature Information for Transparent Tunneling of QSIG over SIP*](#)
Expands transparent tunneling of QSIG messages to all other Q.931 messages (SETUP, ALERTING, CONNECT, and RELEASE COMPLETE).

- [G.722-64 and iLBC Codec Support on Cisco Unified Border Elements, DSP Farms, and Voice Gateways](#)
Enables conferencing and transcoding on Cisco IOS voice gateways in a Cisco Unified Communications Manager network.
- [Information About H.323 Calling Name Display](#)
Provides a configurable option on the Cisco gateway so that the display IE received in the Q931 facility message is sent out to Cisco Unified Communications Manager (Cisco Unified CM) in an H.225 notify message.
- [Land Mobile Radio over IP](#)
Allows Cisco multiservice routers to transport Land Mobile Radio (LMR) traffic over IP networks by modifying voice gateway functionality.
- [Media and Signaling Encryption \(SRTP/TLS\) on DSP Farm Conferencing](#)
Provides secure conferencing capability for Unified CM networks that includes authentication, integrity, and encryption of voice media and related call control signaling to and from the digital signal processor (DSP) farm.
- [Outbound Proxy Support for the SIP Gateway](#)
Allows you to configure an outbound proxy server on a Session Initiation Protocol (SIP) gateway.
- [Release Notes for Cisco IP Communicator 2.1](#)
Describes the new features and caveats for all versions of Cisco IP Communicator Release 2.1.
- [Release Notes for Cisco Unified Personal Communicator Release 7.0](#)
Describes the new features and caveats for Cisco Unified Personal Communicator Release 7.0.
- [Sistema de buzón de voz Cisco Unity Express 3.2 Guía del usuario de funciones avanzadas \(European Spanish\)](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in European Spanish.
- [Sistema de buzón de voz Cisco Unity Express 3.2 Guía del usuario de funciones avanzadas \(Latin American Spanish\)](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Latin American Spanish.
- [Sistema de buzón de voz Cisco Unity Express 3.2 Guía del usuario de funciones avanzadas \(Mexican Spanish\)](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Mexican Spanish.
- [Sistema de correio de voz Cisco Unity Express 3.2 Manual do usuário para recursos avançados](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Brazilian Portuguese.
- [Sistema di voice mail Cisco Unity Express 3.2 Manuale dell'utente per funzioni avanzate](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in Italian.
- [Système de messagerie vocale Cisco Unity Express 3.2 Guide de l'utilisateur—Fonctionnalités avancées](#)
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in European French.

- *Système de messagerie vocale Cisco Unity Express 3.2 Guide de l'utilisateur—Fonctionnalités avancées*
Contains the *Cisco Unity Express 3.2 Voice-Mail System User's Guide for Advanced Features* in French Canadian.
- *Transparent Tunneling of QSIG and Q.931 over SIP TDM Gateways and SIP-SIP CUBE*
Adds support for transparent tunneling of all Q.931 messages over the Session Initiation Protocol (SIP) and for the transparent tunneling of Q-signaling (QSIG) and Q.931 over a SIP-SIP Cisco Unified Border Element (CUBE).
- *Troubleshooting Guide for Cisco Unified Personal Communicator Release 7.0*
Provides installation and configuration information for Cisco Unified Personal Communicator Release 7.0.
- *Universal Voice Transcoding Support for IP-to-IP Gateways*
Allows transcoding from any supported codec to any other supported codec.

Wireless

Revised Documents

- *Cisco Wireless ISR and HWIC Access Point Configuration Guide—Configuring Radio Settings*
Detects other devices using the same channel, selects the appropriate frequency dynamically for WLAN, and adapts the transmission power based on regulatory requirements and range information.

Creating Links to the Cisco Page

Cisco documentation gives customers with a Cisco.com user ID the ability to save helpful links and tools by using the My Cisco button. This button appears at the top of the page, and can be used to create bookmarks to access from any computer.

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>
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