



Home

Cisco BLISS for Cable

Welcome to the information site for Cisco Broadband Local Integrated Services Solution (BLISS) for Cable, the Cisco solution that enables service providers to deliver primary line voice services that comply with CableLabs® PacketCable™ specifications. This site contains the solution documentation that you need to plan, install, configure, provision, operate, maintain, and troubleshoot Cisco BLISS for Cable.

Supported Releases

This documentation covers Cisco BLISS for Cable through Release 2.2. If you are upgrading from a previous Cisco BLISS for Cable release, begin by reading the [Release Notes for Cisco BLISS for Cable Release 2.2](#) to familiarize yourself with functionality in this new release.

User Audiences and Processes

This documentation is written for customer staff who plan and implement Cisco BLISS applications. Information on each of the main processes is presented under its own tab.

Role

Network Architect

Installer/Network Administrator

Objectives

[Planning](#), so that you can tailor Cisco BLISS for Cable to your objectives.

[Installing](#), so that you can confidently install the right components, in the right order, for the system that you have selected.

Role	Objectives
Network Operator/Administrator	<p>Configuring, so that you can configure each component in your system. We provide overview information about the order in which components should be installed and configured, and links to detailed instructions for configuring and provisioning the Cisco BTS 10200 and other components.</p> <p>Provisioning, so that you can provision new features and subscribers.</p> <p>Operating, so that you can carry out day-to-day operations and maintenance tasks, including upgrading software and applying patches.</p> <p>Troubleshooting, so that you can optimize your application and find out what to do about specific Cisco BTS alarms and other network symptoms. This topic also includes links to basic troubleshooting documentation for other components.</p>
All	<p>Reference information, so that you can quickly look up topics such as Cisco BTS default settings or alarms. This information might be available elsewhere as needed for you to perform a particular task, but the Reference tab collects it in summary, reference form.</p>

Related Topics

[Using This Information System](#)—Basic instructions and tips on using this system.

[Obtaining Documentation](#) and [Obtaining Technical Assistance](#)—Standard Cisco information.

[Release Notes](#)—Cisco BTS 10200 and other major component release notes.

[Cisco BLISS for Cable Release 2.2 Overview](#)—Start here to get an overview of Cisco BLISS for Cable and the various components and features it comprises.

Using This Information System

This information system is designed to give you an easily-navigable portal to all documentation related to Cisco BLISS for Cable. The system is organized according to the processes and tasks that you use in deploying and operating your solution.

[About the Information System Window](#)

[Types of Topics](#)

[Tips for Using This System](#)

About the Information System Window

The information system window is laid out so that you can easily navigate between topic areas, select more detailed information, and directly access product and platform documentation, without ever losing your place or having to cope with a complex hierarchy of windows.

Types of Topics

You can tell what type of topic a link is from its name:

- “Doing” topics, such as “Installing the Cisco BTS 10200,” are task topics and provide instructions for doing something.
- “Overview” topics, such as “Planning to Configure ITP,” are concepts to help you understand and plan your deployment and carry out tasks knowledgeably.

Where Information Is Located

Cisco BLISS for Cable encompasses a range of products and technologies, and the documentation encompasses information that may reside in several locations:

- Solution overviews and high-level process and procedure information specific to Cisco BLISS for Cable is located within this information system.
- Product and technology overviews, detailed requirements, task details, and other more generic topics are located outside this information system. These topics have the appearance of standard Cisco documentation with which you may already be familiar. Links to these topics appear with an icon that indicates that clicking the link opens the topic in a new, secondary browser window offset from the current window, rather than replacing the current topic in the content area of the current window.

About the Secondary Browser Window

When a topic like “Installing the Cisco BTS 10200” opens in a new, secondary browser window, that window stays open until you close it. (Click the **Close** button or choose **File > Close**.) If the window is open when you click another link that opens in a secondary browser window, the new topic replaces the current one.

Tips for Using This System

- Use the tabs to navigate between major process areas.
- Use the left navigation menu to navigate to major topics within a process.
- In a secondary popup window:
 - When you are done with the window, click the **Close** button to close it. (It does not close automatically.)
 - You can go back to a previous topic by right-clicking and choosing **Back** or **Forward**.
 - You can view normal browser toolbars, the address bar, and similar items using commands on the **View** menu.

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

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

You can access the Cisco website at this URL:

<http://www.cisco.com>

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Product Documentation DVD

Cisco documentation and additional literature are available in the Product Documentation DVD package, which may have shipped with your product. The Product Documentation DVD is updated regularly and may be more current than printed documentation.

The Product Documentation DVD is a comprehensive library of technical product documentation on portable media. The DVD enables you to access multiple versions of hardware and software installation, configuration, and command guides for Cisco products and to view technical documentation in HTML. With the DVD, you have access to the same documentation that is found on the Cisco website without being connected to the Internet. Certain products also have .pdf versions of the documentation available.

The Product Documentation DVD is available as a single unit or as a subscription. Registered Cisco.com users (Cisco direct customers) can order a Product Documentation DVD (product number DOC-DOCDVD=) from Cisco Marketplace at this URL:

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

Ordering Documentation

Beginning June 30, 2005, registered Cisco.com users may order Cisco documentation at the Product Documentation Store in the Cisco Marketplace at this URL:

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

Nonregistered Cisco.com users can order technical documentation from 8:00 a.m. to 5:00 p.m. (0800 to 1700) PDT by calling 1 866 463-3487 in the United States and Canada, or elsewhere by calling 011 408 519-5055. You can also order documentation by e-mail at tech-doc-store-mkpl@external.cisco.com or by fax at 1 408 519-5001 in the United States and Canada, or elsewhere at 011 408 519-5001.

Documentation Feedback

You can rate and provide feedback about Cisco technical documents by completing the online feedback form that appears with the technical documents on Cisco.com.

You can send comments about Cisco documentation to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you can perform these tasks:

- Report security vulnerabilities in Cisco products.
- Obtain assistance with security incidents that involve Cisco products.
- Register to receive security information from Cisco.

A current list of security advisories and notices for Cisco products is available at this URL:

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

If you prefer to see advisories and notices as they are updated in real time, you can access a Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed from this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you might have identified a vulnerability in a Cisco product, contact PSIRT:

- Emergencies—security-alert@cisco.com

An emergency is either a condition in which a system is under active attack or a condition for which a severe and urgent security vulnerability should be reported. All other conditions are considered nonemergencies.

- Nonemergencies—psirt@cisco.com

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532

**Tip**

We encourage you to use Pretty Good Privacy (PGP) or a compatible product to encrypt any sensitive information that you send to Cisco. PSIRT can work from encrypted information that is compatible with PGP versions 2.x through 8.x.

Never use a revoked or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one linked in the Contact Summary section of the Security Vulnerability Policy page at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

The link on this page has the current PGP key ID in use.

Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your reseller.

Cisco Technical Support & Documentation Website

The Cisco Technical Support & Documentation website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, at this URL:

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

Access to all tools on the Cisco Technical Support & Documentation website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

**Note**

Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support & Documentation website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI tool offers three search options: by product ID or model name; by tree view; or for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco engineer. The TAC Service Request Tool is located at this URL:

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

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete list of Cisco TAC contacts, go to this URL:

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

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, documentation, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:
<http://www.cisco.com/go/marketplace/>
- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

<http://www.ciscopress.com>

- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:
<http://www.cisco.com/packet>
- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
or view the digital edition at this URL:
<http://ciscoiq.texterity.com/ciscoiq/sample/>
- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
<http://www.cisco.com/ipj>
- Networking products offered by Cisco Systems, as well as customer support services, can be obtained at this URL:
<http://www.cisco.com/en/US/products/index.html>
- Networking Professionals Connection is an interactive website for networking professionals to share questions, suggestions, and information about networking products and technologies with Cisco experts and other networking professionals. Join a discussion at this URL:
<http://www.cisco.com/discuss/networking>
- World-class networking training is available from Cisco. You can view current offerings at this URL:
<http://www.cisco.com/en/US/learning/index.html>

Release Notes

Release Notes for Cisco BLISS for Cable

[Release Notes for Cisco BLISS for Cable Release 2.2](#)

When the release notes open (in a new window), you can download the PDF version by right-clicking the PDF icon.

Release Notes for Cisco BLISS for Cable Components

Cisco BTS 10200 Softswitch:

[Cisco BTS 10200 Softswitch Release Notes for Release 4.5](#)

Cisco IP Transfer Point (ITP):

[Release Notes for Cisco 7000 Series Routers for Cisco IOS Release 12.2 SW](#)

Cable Modem Termination System (CMTS):

[Release Notes for Cisco uBR7200 Series for Cisco IOS Release 12.3 BC](#)

[Cross-Platform Release Notes for Cisco IOS Release 12.3](#)

Media Gateway:

[5.0.10 Release Notes for MGX 8880 Media Gateway](#)

[5.2.00 Release Notes for Cisco MGX 8850, Cisco MGX 8950, and Cisco MGX 8830](#)

[Release Notes for Cisco MGX Route Processor Module \(RPM-XF\) Cisco IOS Release 12.3\(11\)T7 for PXM45-based Switches, Release 5.2.00](#)

[Release Notes for Cisco Voice Interworking Service Module Release 3.3.20](#)

Network Management:

[Broadband Access Center for Cable Release Notes for Release 2.6](#)

Acronyms

Common Acronyms Used in Cisco BLISS for Cable Documentation

A B C D E F G H I J K L M N O P Q R S T U V W X

Acronym	Definition
A	
AAA	authentication, authorization, and accounting
AC	automatic callback
AC_ACT	automatic callback activation
AC_DEACT	automatic callback deactivation
ACR	anonymous call rejection
ACR_ACT (ACRA)	anonymous call rejection activation
ACR_DEACT (ACRD)	anonymous call rejection deactivation
ACRA (ACR_ACT)	anonymous call rejection activation
ACRD (ACR_DEACT)	anonymous call rejection deactivation
AGW	access gateway
AIN	Advanced Intelligent Network
AIOD	automatic identified outward dialing
ALI	automatic location identification
AMA	automated message accounting
ANC	announcements module
ANI	automatic number identification

Acronym	Definition
ANS	announcement server
ANSI	American National Standards Institute
API	application programming interface
AR	automatic recall
AR_ACT	automatic recall activation
AR_DEACT	automatic recall deactivation
AT	access tandem
ATA	analog telephone adaptor
ATIS	Alliance for Telecommunications Industry Solutions
ATM	Asynchronous Transfer Mode
B	
B-number	DN that a user enters as the forward-to number (also referred to as MN)
BCM	basic call module
BDMS	Bulk Data Management System
BEM	billing event message
BGDP	basic group dialing plan
BGL	business group line
BLA	billing adapter
BLISS	Broadband Local Integrated Services Solution
BLV	Busy Line Verification
BP	block pair
BRIDS	Bellcore rating input database system
BS	billing server
BTA	basic trading area
C	
CA	call agent
CAC	carrier access code
CALEA	Communications Assistance for Law Enforcement Act
CAMA	centralized automatic message accounting
CAS	channel-associated signaling
CAT	customer access treatment
CATV	Community Antenna Television
CBLK	call block (reject caller)
CBR	constant bit rate
CBWFQ	class-based weighted fair queuing
CCS	common channel signaling
CCW	cancel call waiting

Acronym	Definition
CDB	call data block
CDP	custom dial plan
CDR	call detail record
CE	computing element
CFB	call forwarding on busy
CFBVA	call forwarding on busy variable activation
CFBVD	call forwarding on busy variable deactivation
CFNA	call forwarding on no answer
CFNAVA	call forwarding on no answer variable activation
CFNAVD	call forwarding on no answer variable deactivation
CFU	call forwarding unconditional
CFUA	call forwarding unconditional activation
CFUD	call forwarding unconditional deactivation
CFVBBG	call forwarding variable for basic business group
CFVABBG	CFVBBG activation
CFx	A general reference to all of the forwarding features (CFB, CFNA, and CFU)
CHD	call hold
CIC	circuit identification code, carrier identification code
CID	calling identity delivery, also caller ID (<i>see also</i> CND)
CIDB	calling identity delivery blocking
CIDCW	calling identity delivery on call waiting
CIDS	calling identity delivery and suppression (per call)
CIDSD	calling identity delivery and suppression (per call)—delivery part
CIDSS	calling identity delivery and suppression (per call)—suppression part
CIP	carrier identification parameter
CLASS	custom local area signaling services
CLC	Carrier Liaison Committee
CLEC	competitive local exchange carrier
CLEI	common language equipment identifier
CLI	command-line interface
CLIP	calling line ID presentation
CLIR	calling line ID restriction
CLLI	Common Language Location Identifier
CMIP	Common Management Information Protocol
CMS	call management system, call management server

Acronym	Definition
CMTS	cable modem termination system
CNAB	calling name delivery blocking
CNAM	calling name delivery
CND	calling number delivery, calling number display
CNDB	calling number delivery blocking
CNM	connection module, customer network management
CO	central office
COCUS	central office code utilization survey
CODEC	coder/decoder, compression/decompression
COPS	Common Open Policy Service Protocol
CORBA	Common Object Request Broker Architecture
COS	class of service
COT	customer-originated trace, continuity testing, central office termination
CPCN	certificate of public convenience and necessity
CPE	customer premises equipment
CPRK	call park
CPRK_RET	call park retrieve
CPSG	call park subscriber group
CPU	call pickup, central processing unit
CS	capability set (for example, CS-2)
CSA	callpath services architecture
CSN	circuit switched network
CSR	carrier sensitive routing
CT	call transfer, call type
CW	call waiting
CWI	call waiting indication
D	
DA	directory assistance, distinctive alerting
DACWI	distinctive alerting call waiting indication
DF	delivery function (CALEA)
DID	direct inward dialing
DLEC	data local exchange carrier
DN	directory number
DND	do not disturb
DNIS	dialed number identification service
DNS	Domain Name System
DOCSIS	Data Over Cable Service Interface Specification

Acronym	Definition
DOD	direct outward dialing
DOW	day of week
DOY	day of year
DP	dial plan, dial pulse, demarcation point
DPC	destination point code
DPN	directed call pickup without barge-in
DPN_O	directed call pickup without barge-in (originate)
DPN_T	directed call pickup without barge-in (terminate)
DPU	directed call pickup with barge-in
DPU_O	directed call pickup with barge-in (originate)
DPU_T	directed call pickup with barge-in (terminate)
DQoS	dynamic quality of service
DRCW	distinctive ringing/call waiting
DRCW_ACT	distinctive ringing/call waiting activation
DSA	dynamic service addition
DSC	dynamic service change
DSCP	differentiated services code point
DSL	digital subscriber line
DSP	digital signal processing
DSX	digital system cross-connect frame
DTMF	dual tone multifrequency
E	
E1	Wide-area digital transmission scheme used predominantly in Europe that carries data at a rate of 2.048 Mbps. European equivalent of T1.
E3	Wide-area digital transmission scheme used predominantly in Europe that carries data at a rate of 34.368 Mbps. European equivalent of T3.
E-911	Enhanced 911
E & M	“Ear and Mouth.” Switch-to-switch signaling on PSTN
EA	equal access
EC	echo cancellation
ECSA	Exchange Carriers Standards Association
EDP	event detection point
EM	event message
EMS	Element Management System, Event Messages Specification (PacketCable™)
eMTA	embedded multimedia terminal adapter
ERC	easily recognizable codes

Acronym	Definition
ERQNT	Embedded Request for Notification
ESB	Emergency Service Bureau
ESL	emergency service line
ESP	encapsulating security payload
ETSI	European Telecommunications Standards Institute
F	
FCAPS	fault, configuration, accounting, performance, security
FCI	furnish charging information
FCP	Feature Control Protocol
FGB	Feature Group B
FGD	Feature Group D
FIM	feature interaction manager
FS	Feature Server
FSAIN	Feature Server for Advanced Intelligent Network services
FSPTC	Feature Server for POTS, Tandem, and Centrex services
FTP	File Transfer Protocol
FXO	Foreign Exchange Office
FXS	Foreign Exchange Station
G	
GAP	generic address parameter
GSM	global system for mobile communications
GUI	graphical user interface
H	
HFC	hybrid fiber coaxial
HLR	home location register
HNPA	home numbering plan area
HSI	H.323 signaling interface
HTML	HyperText Markup Language
HTTP	Hypertext Transfer Protocol
I	
IAD	integrated access device
IANA	Internet Assigned Numbers Authority
IAP	intercept access point
ICAP	Inter-call Agent Protocol
ICMP	Internet Control Message Protocol
IDDD	international direct distance dialing
IE	information element

Acronym	Definition
IETF	Internet Engineering Task Force
IKE	Internet key exchange
ILEC	incumbent local exchange carrier
IMT	intermachine trunk
IN	intelligent network
INC	Industry Numbering Committee
IP	Internet Protocol
IPM	impulses per minute
IPsec	Internet Protocol security
IPT	IP-based telephony
IRDP	ICMP Router Discovery Protocol
ISA	ISDN adapter
ISDN	Integrated Services Digital Network
ISFG	incoming simulated facility group
ISO	International Organization for Standardization
ISP	Internet service provider
ISS	ISDN stack
ISUP	ISDN user part
ITP	IP transfer point
ITU	International Telecommunications Union
IVR	interactive voice response
IXC	interexchange carrier
J	
JCA	Java cryptography architecture, Java console agent
JCM	Java console module
JDBC	Java database connectivity
JMS	Java message service
K	
KAM	keepalive module
kbps	kilobits per second
L	
LAN	local-area network
LATA	local access and transport area
LCR	least cost routing
LDAP	Lightweight Directory Access Protocol
LEC	local exchange carrier
LERG	local exchange routing guide

Acronym	Definition
LI	lawful intercept
LIDB	line information database
LLQ	low-latency queuing
LNP	local number portability
LPC	local point code
LRN	local routing number
LRQ	location request (H.323 signaling)
LRU	least recently used
LSA	local serving area
LSSGR	LATA Switching Systems Generic Requirements
M	
Mbps	megabits per second
MCF	multiple call forwarding
MCS	media gateway control stack
MDC	midcall
MDN	multiple directory numbers
MDRR	modified deficit round robin. A queuing strategy in which nonempty queues are served one after another, in round-robin fashion.
MF	multifrequency
MG (MGW)	media gateway
MGA	media gateway adapter
MGC	media gateway controller
MGCP	Media Gateway Control Protocol
MGW (MG)	media gateway
MIB	Management Information Base
MIME	Multipurpose Internet Mail Extensions
MLHG	multiline hunt group
MN	<i>See</i> B-number
MNM	maintenance module
ms	millisecond
MSA	Metropolitan Statistical Area
MSO	Multiple Systems Operator
MSOC	multiservice over cable
MSU	message signal unit
MTA	multimedia terminal adapter
MTP	Message Transfer Part
MTU	maximum transmission unit

Acronym	Definition
MWI	message waiting indicator
N	
NANP	North American Numbering Plan
NAS	network access server
NCS	network-based call signaling
NE	network element
NEBS	Network Equipment Building Standards
NFAS	Non-Facility Associated Signaling
NIS	Network Information Service
NMS	network management system
NO	network operator
NOC	network operations center
NOD	nature of dial
NPA	Numbering Plan Area
NSE	name signaling event
NTP	Network Time Protocol
NU	network unit
nxx	NANP digits: n=2, 3, ...9 and x=0, 1, ...9
O	
OAM	Operation, Administration, and Maintenance, Operations, Administration module
OAM&P	Operations, Administration, Maintenance, and Provisioning
OBCSM	originating basic call state machine
OCB	outgoing call barring
OCN	operating company number
OI	operator interrupt
OLI	originating line information
OPC	originating point code
OPT	Open Packet Telephony
OS	operating system
OSA	open service adapter
OSFG	outgoing simulated facility group
OSI	Open Systems Interconnection
OSS	operations support system
OSSGR	Operator Services Systems Generic Requirements
P	
PBX	private branch exchange
PCI	protocol control information

Acronym	Definition
PCM	pulse code modulation
PCMA	pulse code modulation a-law
PCMU	pulse code modulation mu-law
PCPS	per-call presentation status
PCS	personal communications services
PCSNDB	personal communications services numbering database
PDU	power distribution unit
PIC	presubscribed interexchange carrier, point in call
PLT	platform
POI	point of interface, point of interconnection
POP	point of presence
POPD	public office dialing plan
POSIX	Portable Operating System Interface UNIX
POTS	plain old telephone service
PPP	Point to Point Protocol
PPQ	point to point queuing
PPS	permanent presentation status
PRI	primary rate interface
PS	presentation status
PSAP	public safety answering point
PSTN	public switched telephone network
PVC	permanent virtual circuit
Q	
QoS	quality of service
QSIG	Q (point of the ISDN model) Signaling. Signaling standard. Common channel signaling protocol based on ISDN Q.931 standards and used by many digital PBXs.
R	
RACF	remote activation of call forwarding
RACF-PIN	remote activation of call forwarding personal ID number
RADIUS	Remote Authentication Dial-In User Service
RAID	redundant array of inexpensive disks
RAS	Registration, Admission, and Status protocol. A protocol that is used between endpoints and the gatekeeper to perform management functions. The RAS signaling function performs registration, admissions, bandwidth changes, status, and disengage procedures between the VoIP gateway and the gatekeeper.
RCF	remote call forwarding

Acronym	Definition
RDBS	routing database system
RDM	redundancy module
RDT	recall dial tone
RF	radio frequency
RFC	Request for Comment (IETF)
RGW	residential gateway
RIP	Routing Information Protocol
ROH	receiver off hook
RPC	remote point code, remote procedure call
RQNT	request for notification
RR	resource record
RSA	rural service area
RSIP	restart in progress
RSM	resource module
RSVP	Resource Reservation Protocol
RTM	routing module
RTP	Real-Time Transport Protocol
R-UDP	Reliable User Datagram Protocol (Cisco Systems proprietary signaling backhaul protocol)
S	
S7A	SS7 adapter
S7S	SS7 stack (DGM&S)
SA	security association
SAC	service access call
SAI	signaling adapter interface
SC1D	speed call 1-digit
SC1D_ACT	speed call 1-digit activation
SC2D_ACT	speed call 2-digit activation
SCA	selective call acceptance
SCA_ACT	selective call acceptance activation
SCF	selective call forwarding
SCF_ACT	selective call forwarding activation
SCP	service control point, signal control point
SCR	selective call rejection
SCR_ACT	selective call rejection activation
SCTP	Stream Control Transmission Protocol
SDK	Software Development Kit
SDP	Session Description Protocol

Acronym	Definition
SFG	simulated facility group
SFTP	Secure File Transfer Protocol (FTP)
SG	signaling gateway
SGCP	Simple Gateway Control Protocol
SIA	SIP adapter
SID	system identification number
SIM	service interaction manager
SIP	Session Initiation Protocol
SLE	screening list editing
SLTA	Signaling Link Test Acknowledgment (an SS7 signaling link test message type)
SLTM	Signaling Link Test Message (an SS7 signaling link test message type)
SM	Session Manager
SMA	SNMP adapter
SMDS	Switched Multimegabit Data Service
SMTP	Simple Mail Transfer Protocol. Internet protocol providing e-mail services
SNMP	Simple Network Management Protocol. A network management protocol used in TCP/IP networks.
SOHO	small office home office
SP	service provider
SPCS	stored program control system
SQL	Structured Query Language
SRST	Survivable Remote Site Telephony
SS7	Signaling System 7
SSF	service switching function
SSH	secure shell
SSL	secure sockets layer
SSP	service switching point, signal switching point
STP	signal transfer point
SVC	switched virtual circuit
T	
T1	trunk level 1. Digital WAN carrier facility. T1 transmits DS-1-formatted data at 1.544 Mbps through the telephone-switching network.
T3	trunk level 3. Digital WAN carrier facility. T3 transmits DS-3-formatted data at 44.736 Mbps through the telephone-switching network. Compare with E3.

Acronym	Definition
TAC	Cisco Technical Assistance Center
TAP	Telocator Alphanumeric Paging Protocol
TBCSM	terminating basic call state machine
TCAP	Transaction Capabilities Application Part
TCP	Transmission Control Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
TDD	telecommunications device for the deaf
TDM	time-division multiplexing
TDP	trigger detection point
TF	toll free
TG	trunk group
TGW	trunking gateway
TMN	Telecommunications Management Network
TNS	transit network selection
TOD	time of day
TOPS	traffic operator position system
TOS	type of service
TPM	terminating point master
TRS	telecommunications relay services
TSAP	transport service access point
TTY	text typewriter
TWC	three-way calling
U	
UAA	user authentication adapter
UAC	user agent client
UAS	user agent server
uBR	universal broadband router (Cisco)
UCD	uniform call distribution
UDP	User Datagram Protocol
URI	uniform resource identifier
URL	universal resource locator
USTWC	usage-sensitive three-way calling
V	
VBR	variable bit rate
VLAN	virtual LAN
VMWI	visual message waiting indicator
VoATM	Voice over ATM

Acronym	Definition
VoIP	Voice over IP
VSC	vertical service code
W	
WAN	wide-area network
WFI	waiting for instruction
WRED	weighted random early detection
X	
xDSL	(generic) digital subscriber line