



Acronyms and Abbreviations

This appendix lists the acronyms and abbreviations that are used in this document. Refer to the *Catalyst 6500 Series Switch and Cisco 7600 Series Router Firewall Services Module Command Reference* for information on the commands described in this section.

Table A-1 Acronyms and Abbreviations

Acronym	Description
AAA	authentication, authorization, and accounting.
ABR	Area Border Router.
ACE	access control entry.
ACL	access control list.
AH	Authentication Header.
ARP	Address Resolution Protocol—A low-level TCP/IP protocol that maps a node's hardware address (MAC address) to its IP address. Defined in RFC 826. An example hardware address is 00:00:a6:00:01:ba. (The first three groups specify the manufacturer, and the rest identify the host's motherboard.)
ASBR	Autonomous System Boundary Router.
BGP	Border Gateway Protocol—While the FWSM does not support use of this protocol, you can set the routers on either side of the FWSM to use RIP between them and then run BGP on the rest of the network before the routers.
BOOTP	Bootstrap Protocol—Allows diskless workstations to boot over the network and is described in RFC 951 and RFC 1542.
CA	certification authority.
CHAP	Challenge Handshake Authentication Protocol. Security feature supported on lines using PPP encapsulation that prevents unauthorized access.
chargen	Character Generation—Via TCP, a service that sends a continual stream of characters until stopped by the client. Via UDP, the server sends a random number of characters each time that the client sends a datagram. Defined in RFC 864.
conn	Connection slot.
CPP	Combinet Proprietary Protocol.
CPU	central processing unit.
CRL	certificate revocation list.
CS-ACS	Cisco Secure ACS.

Table A-1 Acronyms and Abbreviations (continued)

Acronym	Description
CTI	Computer Telephony Integration.
CTIQBE	Computer Telephony Interface Quick Buffer Encoding.
dACL	Downloadable ACL.
DES	Data Encryption Standard.
DH	Diffie-Hellman.
DHCP	Dynamic Host Configuration Protocol.
DNS	Domain Name System—Operates over UDP unless zone file access over TCP is required.
DoS	Denial of service.
ECMP	Equal Cost Multi-Path.
EEPROM	Electrically Erasable Programmable Read-Only Memory.
EGP	Exterior Gateway Protocol—While the FWSM does not support use of this protocol, you can set the routers on either side of the FWSM to use RIP between them and then run EGP on the rest of the network before the routers.
EIGRP	Enhanced Interior Gateway Routing Protocol—While the FWSM does not support use of this protocol, you can set the routers on either side of the FWSM to use RIP between them and then run EIGRP on the rest of the network before the routers.
ESP	Encapsulating Security Payload. Refer to RFC 1827 for more information.
FAT	File Allocation Table.
FDDI	Fiber Distributed Data Interface—Fiber optic interface.
FDM	Firewall Device Manager.
FTP	File Transfer Protocol.
FWSM	Firewall Services Module.
gaddr	Global address—An address set with the global and static commands.
GRE	Generic routing encapsulation protocol—Commonly used with Microsoft's implementation of PPTP.
H.323	A collection of protocols that allow the transmission of voice data over TCP/IP networks.
HSRP	Hot-Standby Routing Protocol.
HTTP	Hypertext Transfer Protocol—The service that handles access to the World Wide Web.
https	HTTP over SSL.
IANA	Internet Assigned Number Authority—Assigns all port and protocol numbers for use on the Internet. You can view port numbers at the following site: http://www.iana.org/assignments/port-numbers You can view protocol numbers at the following site: http://www.iana.org/assignments/protocol-numbers

Table A-1 Acronyms and Abbreviations (continued)

Acronym	Description
ICMP	Internet Control Message Protocol—This protocol is commonly used with the ping command. You can view ICMP traces through the FWSM with the debug trace on command. Refer to RFC 792 for more information.
IFP	Internet Filtering Protocol.
IGMP	Internet Group Management Protocol.
IGRP	Interior Gateway Routing Protocol.
IKE	Internet Key Exchange.
IKMP	Internet Key Management Protocol.
IP	Internet Protocol.
IPCP	IP Control Protocol. Protocol that establishes and configures IP over PPP.
IPinIP	IP-in-IP encapsulation protocol.
IPSec	IP Security Protocol efforts in the IETF (Internet Engineering Task Force).
IRC	Internet Relay Chat protocol—The protocol that lets users access chat rooms.
ISAKMP	Internet Security Association and Key Management Protocol.
ITU	International Telecommunication Union.
IUA	Individual user authentication.
JTAPI	Java TAPI.
KDC	Key Distribution Center.
laddr	Local address—The address of a host on a protected interface.
LFC	Logical Firewall Interface (as opposed to a VLAN).
LSA	link-state advertisement.
L2TP	Layer 2 Tunneling Protocol.
MGCP	Media Gateway Control Protocol.
MD5	Message Digest 5—An encryption standard for encrypting VPN packets. This same encryption is used with the aaa authentication console command to encrypt Telnet sessions to the console.
MIB	Management Information Base—Used with SNMP.
MPPE	Microsoft Point-To-Point Encryption.
MS-CHAP	Microsoft CHAP (Challenge Handshake Authentication Protocol). See “CHAP” for more information.
MSRPC	Microsoft Remote Procedure Call.
MTU	maximum transmission unit—The maximum number of bytes in a packet that can flow efficiently across the network with the best response time. For Ethernet, the default MTU is 1500 bytes, but each network can have different values, with serial connections having the smallest values. The MTU is described in RFC 1191.
NAT	Network Address Translation.
NBMA	nonbroadcast multiaccess.
NetBIOS	Network Basic Input Output System—An application programming interface (API) that provides special functions for PCs in LANs.

Table A-1 Acronyms and Abbreviations (continued)

Acronym	Description
NFS	Network File System.
NIC	Network Information Center.
NNTP	Network News Transfer Protocol—News reader service.
NOS	Network Operating System.
NP	IBM Network Processor.
NSSA	not so stubby area.
NTP	Network Time Protocol—Protocol that sets system clocks through the network.
NVT	Network virtual terminal.
OSPF	Open Shortest Path First protocol.
PAP	Password Authentication Protocol. Authentication protocol that lets PPP peers authenticate one another.
PAT	Port Address Translation.
PCP	Payload Compression Protocol. This is a compression protocol supplied with the Cisco IOS software code on which the FWSM IPsec implementation is based. The FWSM does not support the PCP protocol.
PDM	PIX Device Manager.
PFS	perfect forward secrecy.
PIM	Protocol Independent Multicast.
PIM-SM	PIM sparse mode.
PIX	Private Internet Exchange.
PKI	Public Key Infrastructure.
POP	Post Office Protocol.
PPPoE	Point-to-Point Protocol over Ethernet.
PPP	Point-to-Point Protocol. Provides FWSM-to-router and host-to-network connections over synchronous and asynchronous circuits.
PPTP	Point-to-Point Tunneling Protocol. RFC 2637 describes the PPTP protocol.
RA	registration authority.
RADIUS	Remote Authentication Dial-In User Service—User authentication server specified with the aaa-server command.
RAS	The registration, admission, and status protocol. Provided with H.323 support.
RC4	RC4 is stream cipher designed by Rivest for RSA Data Security, Inc. It is a variable key-size stream cipher with byte-oriented operations. The algorithm is based on the use of a random permutation.
RFC	Request For Comment—RFCs are the defacto standards of networking protocols.
RIP	Routing Information Protocol.
RME	resource management environment.
RPC	Remote Procedure Call.
RSA	Rivest, Shamir, and Adelman. RSA is the trade name for RSA Data Security, Inc.

Table A-1 Acronyms and Abbreviations (continued)

Acronym	Description
RTP	Real-Time Transport Protocol.
RTCP	RTP Control Protocol.
RTSP	Real Time Streaming Protocol.
SA	security association.
SCCP	Simple (Skinny) Client Control Protocol.
SDP	Session Description Protocol.
SIP	Session Initiation Protocol.
SSH	Secure Shell.
SMR	Stub Multicast Routing.
SMTP	Simple Mail Transfer Protocol—Mail service. The fixup protocol smtp command enables the Mail Guard feature. The FWSM Mail Guard feature is compliant with both the RFC 1651 HELO and RFC 821 section 4.5.1 commands.
SNMP	Simple Network Management Protocol—Set attributes with the snmp-server command.
SPC	Shared Profile Component.
SPI	Security Parameter Index—A number which, together with a destination IP address and security protocol, uniquely identifies a particular security association.
SQL*Net	SQL*Net is a protocol that Oracle uses to communicate between client and server processes. (SQL stands for Structured Query Language.)
SUA	Secure unit authentication.
SYN	Synchronize sequence numbers flag in the TCP header.
TACACS+	Terminal Access Controller Access Control System Plus.
TAPI	Telephony Application Programming Interface.
TCP	Transmission Control Protocol. Refer to RFC 793 for more information.
TSE	Tree Search Engine.
TSP	TAPI Service Provider.
TFTP	Trivial File Transfer Protocol.
Triple DES	Triple Data Encryption Standard. Also known as 3DES.
TurboACL	Turbo Access Control List.
uauth	User authentication.
UDP	User Datagram Protocol.
URL	Universal Resource Locator.
UUIE	user-user information element.
VLAN	virtual LAN.
VoIP	Voice over IP.
VPDN	virtual private dial-up network.
VPN	Virtual Private Network.

Table A-1 *Acronyms and Abbreviations (continued)*

Acronym	Description
VTP	VLAN Trunking Protocol.
WINS	Windows Internet Name Service.
WWW	World Wide Web.
Xauth	extended authentication.
XDMCP	X Display Manager Control Protocol.
xlate	Translation slot in the FWSM.