



**National Institute of  
Standards and Technology**  
U.S. Department of Commerce

**NIST Interagency Report 7581**  
**September 2009**

---

# **System and Network Security Acronyms and Abbreviations**

---

Karen Scarfone  
Victoria Thompson

# Report Documentation Page

Form Approved  
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE <b>SEP 2009</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2009 to 00-00-2009</b>	
4. TITLE AND SUBTITLE <b>System and Network Security Acronyms and Abbreviations</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>National Institute of Standards and Technology, Gaithersburg, MD</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

**NIST Interagency Report 7581**  
**September 2009**

# System and Network Security Acronyms and Abbreviations

Karen Scarfone  
Victoria Thompson

---

# C O M P U T E R   S E C U R I T Y

---

Computer Security Division  
Information Technology Laboratory  
National Institute of Standards and Technology  
Gaithersburg, MD 20899-8930

September 2009



**U.S. Department of Commerce**

Gary Locke, Secretary

**National Institute of Standards and Technology**

Patrick D. Gallagher, Deputy Director

## Reports on Computer Systems Technology

The Information Technology Laboratory (ITL) at the National Institute of Standards and Technology (NIST) promotes the U.S. economy and public welfare by providing technical leadership for the nation's measurement and standards infrastructure. ITL develops tests, test methods, reference data, proof of concept implementations, and technical analysis to advance the development and productive use of information technology. ITL's responsibilities include the development of technical, physical, administrative, and management standards and guidelines for the cost-effective security and privacy of sensitive unclassified information in Federal computer systems. This Interagency Report discusses ITL's research, guidance, and outreach efforts in computer security and its collaborative activities with industry, government, and academic organizations.

**National Institute of Standards and Technology Interagency Report 7581**  
**32 pages (Sep. 2009)**

Certain commercial entities, equipment, or materials may be identified in this document in order to describe an experimental procedure or concept adequately. Such identification is not intended to imply recommendation or endorsement by the National Institute of Standards and Technology, nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

## **Acknowledgments**

The authors, Karen Scarfone of the National Institute of Standards and Technology (NIST) and Victoria Thompson of Booz Allen Hamilton, wish to thank their colleagues who reviewed drafts of this report, particularly Liz Lennon and Tim Grance of NIST. Thanks also go to individuals and organizations that submitted suggestions, particularly Tim Kramer, Mark Seecof, Janine Paris, the U.S. Department of Energy, and the U.S. Department of State. The authors also thank their colleagues who created acronym and abbreviation lists for their publications that were subsequently used as sources of information for this report.

## **Trademark Information**

All names are registered trademarks or trademarks of their respective companies.

## **Note to Reviewers**

Reviewers are encouraged to submit additional acronyms and abbreviations related to system and network security, particularly for emerging technologies, for consideration as additions to this report. All suggestions and corrections should be sent to [securityacronyms@nist.gov](mailto:securityacronyms@nist.gov).

## Table of Contents

<b>1. Introduction .....</b>	<b>1</b>
<b>2. Acronym and Abbreviation List .....</b>	<b>2</b>
Numeric.....	2
A.....	2
B.....	3
C.....	4
D.....	6
E.....	7
F.....	8
G.....	9
H.....	10
I.....	11
J.....	13
K.....	13
L.....	13
M.....	14
N.....	15
O.....	17
P.....	17
Q.....	19
R.....	19
S.....	20
T.....	22
U.....	23
V.....	24
W.....	24
XYZ.....	25
<b>Appendix A— References .....</b>	<b>26</b>
<b>Appendix B— Former Acronyms .....</b>	<b>27</b>

## 1. Introduction

This report contains a list of selected acronyms and abbreviations for system and network security terms with their generally accepted or preferred definitions. It is intended as a resource for federal agencies and other users of system and network security publications.

The capitalization, spelling, and definitions of acronyms and abbreviations frequently vary among publications. It is easy to understand why this happens. While some acronyms and abbreviations (e.g., WWW) have one universally recognized and understood definition within the domain of system and network security, others (e.g., IA, MAC) have multiple valid definitions depending upon the context in which they are used. Some acronyms bear little resemblance to their definitions, such as Modes of Operation Validation System for the Triple DES Algorithm (TMOVS). Others use unexpected capitalization or spelling (e.g., Electronic Business using eXtensible Markup Language [eXML] and Organisation for Economic Co-operation and Development [OECD]). As a result, acronyms, abbreviations, and their definitions may be inaccurately or inconsistently defined by authors, perpetuating errors and confusing or misleading readers.

This report is meant to help reduce these errors and confusion by providing the generally accepted or preferred definitions of a list of frequently used acronyms and abbreviations. The list does not include *all* system and network security terms, nor is it a compendium of every acronym and abbreviation found in system and network security documents published by NIST. Readers should refer to each document's list of acronyms and abbreviations (typically found in an appendix) for definitions applicable to that particular document.

The following conventions have been used in the preparation of the list of acronyms and abbreviations in this report.

- Abbreviations and acronyms generally appear in all capital letters, although there are occasional exceptions—for example, meter (m) and decibels referenced to one milliwatt (dBm).
- Technical terms are not capitalized unless they are proper nouns. Names of people, places, and groups, and the titles of protocols, standards, and algorithms are considered proper nouns. For example, certification and accreditation (C&A) is not capitalized, but Advanced Encryption Standard (AES) is capitalized.
- Collective nouns are not capitalized (e.g., wide area network [WAN]).
- When two or more definitions of the same acronym or abbreviation are given, the acronym or abbreviation is italicized and repeated for each definition. Definitions are listed alphabetically.

## 2. Acronym and Abbreviation List

This section consists of a list of selected system and network security acronyms and abbreviations, along with their generally accepted definitions. When there are multiple definitions for a single term, the acronym or abbreviation is italicized and each definition is listed separately.

### Numeric

<b>1xRTT</b>	one times radio transmission technology
<b>3DES</b>	Triple Data Encryption Standard
<b>3G</b>	3rd Generation
<b>3GPP</b>	3rd Generation Partnership Project
<b>3GPP2</b>	3rd Generation Partnership Project 2

### A

<b>A</b>	address resource record type
<b>AA</b>	ABAC attribute authority
<b>AAA</b>	authentication, authorization, and accounting
<b>AAAK</b>	authentication, authorization, and accounting key
<b>AAD</b>	additional authenticated data
<b>AAR</b>	after action report
<b>AAS</b>	adaptive antenna system
<b>ABAC</b>	attribute-based access control
<b>ACE</b>	access control entry
<b>ACL</b>	access control list
<b>ACM</b>	Association for Computing Machinery
<b>ACO</b>	authenticated cipher offset
<b>AD</b>	Active Directory
<b>AD</b>	authenticated data
<b>ADS</b>	alternate data stream
<b>AES</b>	Advanced Encryption Standard
<b>AES-CBC</b>	Advanced Encryption Standard-Cipher Block Chaining
<b>AES-CTR</b>	Advanced Encryption Standard-Counter Mode
<b>AFH</b>	adaptive frequency hopping
<b>A-GPS</b>	assisted global positioning system
<b>AH</b>	Authentication Header
<b>AIDC</b>	automatic identification and data capture
<b>AIM</b>	Association for Automatic Identification and Mobility
<b>AIT</b>	automatic identification technology
<b>AJAX</b>	Asynchronous JavaScript and XML
<b>AK</b>	authorization key
<b>AKID</b>	authorization key identifier
<b>AKM</b>	authentication and key management
<b>ALG</b>	application layer gateway
<b>ANSI</b>	American National Standards Institute
<b>AP</b>	access point
<b>API</b>	application programming interface



<b>APWG</b>	Anti-Phishing Working Group
<b>ARIN</b>	American Registry for Internet Numbers
<b>ARP</b>	Address Resolution Protocol
<b>ARPA</b>	Advanced Research Projects Agency
<b>AS</b>	authentication server
<b>AS</b>	authentication service
<b>AS</b>	autonomous system
<b>ASC</b>	Anti-Spyware Coalition
<b>ASC X9</b>	Accredited Standards Committee X9
<b>ASCII</b>	American Standard Code for Information Interchange
<b>ASLR</b>	address space layout randomization
<b>ASN</b>	autonomous system number
<b>ASN.1</b>	Abstract Syntax Notation 1
<b>ASP</b>	active server pages
<b>ATA</b>	Advanced Technology Attachment
<b>ATIM</b>	Announcement Traffic Indication Message
<b>ATM</b>	asynchronous transfer mode
<b>ATM</b>	automated teller machine
<b>AV</b>	antivirus
<b>AVIEN</b>	Anti-Virus Information Exchange Network
<b>AVP</b>	attribute-value pair

**B**

<b>B2B</b>	business-to-business
<b>BCP</b>	best current practice
<b>BCP</b>	business continuity plan
<b>BGP</b>	Border Gateway Protocol
<b>BGP-4</b>	Border Gateway Protocol 4
<b>BIA</b>	Bump-in-the-API
<b>BIA</b>	business impact analysis
<b>BioAPI</b>	Biometric Application Programming Interface
<b>BIOS</b>	basic input/output system
<b>BITS</b>	Bump-in-the-Stack
<b>BPML</b>	Business Process Modeling Language
<b>BPSS</b>	Business Process Specification Schema
<b>BRP</b>	business recovery (resumption) plan
<b>BS</b>	base station
<b>BSC</b>	base station controller
<b>BSI</b>	British Standards Institution
<b>BSIA</b>	British Security Industry Association
<b>BSP</b>	best security practice
<b>BSS</b>	basic service set
<b>BSSID</b>	basic service set identifier
<b>BTNS</b>	better-than-nothing-security
<b>BTS</b>	base transceiver station
<b>BU</b>	binding update
<b>BUA</b>	binding update acknowledgement

**C**

<b>C&amp;A</b>	certification and accreditation
<b>CA</b>	certificate authority
<b>CA</b>	certification agent
<b>CA</b>	certification authority
<b>CAC</b>	common access card
<b>CAIDA</b>	Cooperative Association for Internet Data Analysis
<b>CAPTCHA</b>	Completely Automated Public Turing Test to Tell Computers and Humans Apart
<b>CARO</b>	Computer Antivirus Research Organization
<b>CAVP</b>	Cryptographic Algorithm Validation Program
<b>CBC</b>	Cipher Block Chaining
<b>CBC-MAC</b>	Cipher Block Chaining Message Authentication Code
<b>CBEFF</b>	Common Biometric Exchange File Format
<b>CC</b>	Common Criteria
<b>CCE™</b>	Common Configuration Enumeration
<b>CCEVS</b>	Common Criteria Evaluation and Validation Scheme
<b>CCIPS</b>	Computer Crime and Intellectual Property Section
<b>CCK</b>	complementary code keying
<b>CCM</b>	Counter Mode with CBC-MAC
<b>CCMP</b>	Counter Mode with CBC-MAC Protocol
<b>CCRA</b>	Common Criteria Recognition Arrangement
<b>CCSS</b>	Common Configuration Scoring System
<b>ccTLD</b>	country code top-level domain
<b>CD</b>	checking disabled
<b>CD</b>	compact disc
<b>CDFS</b>	compact disc file system
<b>CDMA</b>	code division multiple access
<b>CD-R</b>	compact disc-recordable
<b>CD-ROM</b>	compact disc-read only memory
<b>CD-RW</b>	compact disc-rewritable
<b>CEO</b>	chief executive officer
<b>CERIAS</b>	Center for Education and Research in Information Assurance and Security
<b>CERT</b>	computer emergency response team
<b>CERT®/CC</b>	CERT® Coordination Center
<b>CF</b>	CompactFlash®
<b>CFAA</b>	Computer Fraud and Abuse Act
<b>CFB</b>	Cipher Feedback
<b>CFI</b>	computer and financial investigations
<b>CFR</b>	Code of Federal Regulations
<b>CFTT</b>	computer forensics tool testing
<b>CGA</b>	cryptographically generated addresses
<b>CGI</b>	Common Gateway Interface
<b>CHAP</b>	Challenge-Handshake Authentication Protocol
<b>CHUID</b>	cardholder unique identifier
<b>CIDR</b>	Classless Inter-Domain Routing
<b>CIFS</b>	Common Internet File System
<b>CIO</b>	chief information officer
<b>CIP</b>	critical infrastructure protection
<b>CIPC</b>	Critical Infrastructure Protection Committee

<b>CIPSEA</b>	Confidential Information Protection and Statistical Efficiency Act
<b><i>CIRC</i></b>	computer incident response capability
<b><i>CIRC</i></b>	computer incident response center
<b>CIRDB</b>	CERIAS Incident Response Database
<b>CIRT</b>	computer incident response team
<b>CIS</b>	Center for Internet Security
<b>CISO</b>	chief information security officer
<b>CLF</b>	common log format
<b>CLI</b>	command line interface
<b>CLR</b>	common language runtime
<b>cm</b>	centimeter
<b>CMA</b>	Certificate Management Authority
<b>CMAC</b>	Cipher-based Method Authentication Code
<b>CME</b>	Common Malware Enumeration
<b>CMOS</b>	complementary metal oxide semiconductor
<b><i>CMS</i></b>	Centers for Medicare and Medicaid Services
<b><i>CMS</i></b>	Cryptographic Message Syntax
<b>CMSS</b>	Common Misuse Scoring System
<b>CMVP</b>	Cryptographic Module Validation Program
<b><i>CN</i></b>	common name
<b><i>CN</i></b>	correspondent node
<b>CNSS</b>	Committee on National Security Systems
<b>CNSSI</b>	Committee on National Security Systems Instruction
<b>CoA</b>	care-of address
<b>codec</b>	coder/decoder
<b>COI</b>	conflict of interest
<b>COM</b>	Component Object Model
<b>COOP</b>	continuity of operations
<b>COPPA</b>	Children's Online Privacy Protection Act
<b>CORBA®</b>	Common Object Request Broker Architecture
<b>COTS</b>	commercial off-the-shelf
<b><i>CP</i></b>	certificate policy
<b><i>CP</i></b>	contingency plan
<b>CPE™</b>	Common Platform Enumeration
<b>CPI</b>	compression parameter index
<b>CPNI</b>	Centre for the Protection of National Infrastructure
<b>CPS</b>	certification practice statement
<b>CPU</b>	central processing unit
<b>CRAM</b>	challenge-response authentication mechanism
<b>CRC</b>	cyclic redundancy check
<b>CRL</b>	certificate revocation list
<b>CS</b>	client/server
<b>CSIA</b>	Cyber Security Industries Alliance
<b>CSIRC</b>	computer security incident response capability
<b>CSIRT</b>	computer security incident response team
<b><i>CSO</i></b>	chief security officer
<b><i>CSO</i></b>	computer security object
<b>CSP</b>	Credentials Service Provider
<b>CSR</b>	certificate signing request
<b>CSRC</b>	Computer Security Resource Center
<b>CSRDA</b>	Cyber Security Research and Development Act of 2002

<b>CSS</b>	cascading style sheet
<b>CSV</b>	comma-separated values
<b>CTO</b>	chief technology officer
<b>CTR</b>	counter mode encryption
<b>CVE</b>	Common Vulnerabilities and Exposures
<b>CVSS</b>	Common Vulnerability Scoring System
<b>CWE</b>	Common Weakness Enumeration

**D**

<b>DA</b>	destination address
<b>DAA</b>	designated accrediting authority
<b>DAA</b>	designated approving authority
<b>DAC</b>	discretionary access control
<b>DAD</b>	duplicate address detection
<b>DAML</b>	DARPA Agent Markup Language
<b>D-AMPS</b>	Digital Advanced Mobile Phone Service
<b>DAO</b>	Data Access Object
<b>DARPA</b>	Defense Advanced Research Projects Agency
<b>dBm</b>	decibels referenced to one milliwatt
<b>DBMS</b>	database management system
<b>DC</b>	domain controller
<b>DCE</b>	Distributed Computing Environment
<b>DCOM</b>	Distributed Component Object Model
<b>DCS</b>	distributed control system
<b>DDMS</b>	Department of Defense Metadata Specification
<b>DDoS</b>	distributed denial of service
<b>DEA</b>	Data Encryption Algorithm
<b>DEP</b>	Data Execution Prevention
<b>DES</b>	Data Encryption Standard
<b>DFS</b>	Distributed File System
<b>DFS</b>	dynamic frequency selection
<b>DH</b>	Diffie-Hellman
<b>DHAAD</b>	Dynamic Home Agent Address Discovery
<b>DHCP</b>	Dynamic Host Configuration Protocol
<b>DHCPv6</b>	Dynamic Host Configuration Protocol for Internet Protocol v6
<b>DHS</b>	U.S. Department of Homeland Security
<b>DIMS</b>	Digital Identity Management Service
<b>DISA</b>	U.S. Defense Information Systems Agency
<b>DLL</b>	dynamic link library
<b>DMA</b>	direct memory access
<b>DMZ</b>	demilitarized zone
<b>DN</b>	distinguished name
<b><u>DN</u></b>	domain name
<b>DNP</b>	Distributed Network Protocol
<b>DNS</b>	domain name system
<b>DNSBL</b>	Domain Name System Blacklist
<b>DNSSEC</b>	Domain Name System Security Extensions
<b>DOC</b>	U.S. Department of Commerce
<b>DoD</b>	U.S. Department of Defense

<b>DOE</b>	U.S. Department of Energy
<b>DOI</b>	domain of interpretation
<b>DOJ</b>	U.S. Department of Justice
<b>DOM</b>	Document Object Model
<b>DoS</b>	denial of service
<b>DPA</b>	differential power analysis
<b>DRA</b>	data recovery agent
<b>DRM</b>	digital rights management
<b>DRP</b>	disaster recovery plan
<b>DS</b>	Delegation Signer
<b>DS</b>	distribution system
<b>DS Field</b>	differentiated services field
<b>DSA</b>	Digital Signature Algorithm
<b>DSL</b>	digital subscriber line
<b>DSML</b>	Directory Services Markup Language
<b>DSN</b>	delivery status notification
<b>DSOD</b>	dynamic separation of duty
<b>DSS</b>	Digital Signature Standard
<b>DSTM</b>	Dual Stack Transition Mechanism
<b>DTC</b>	Distributed Transaction Coordinator
<b>DTD</b>	Document Type Definition
<b>DTR</b>	derived test requirement
<b>DUID</b>	DHCP unique identifier
<b>DVD</b>	digital video disc
<b>DVD-R</b>	digital video disc - recordable
<b>DVD-ROM</b>	digital video disc - read only memory
<b>DVD-RW</b>	digital video disc - rewritable

**E**

<b>EAL</b>	evaluation assurance level
<b>EAP</b>	Extensible Authentication Protocol
<b>EAP-FAST</b>	Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling
<b>EAPOL</b>	Extensible Authentication Protocol Over LAN
<b>EAPOL-KCK</b>	Extensible Authentication Protocol Over LAN Key Confirmation Key
<b>EAPOL-KEK</b>	Extensible Authentication Protocol Over LAN Key Encryption Key
<b>EAP-TLS</b>	Extensible Authentication Protocol-Transport Layer Security
<b>EAP-TTLS</b>	Extensible Authentication Protocol-Tunneled Transport Layer Security
<b>EBGP</b>	Exterior Border Gateway Protocol
<b>ebXML</b>	Electronic Business using eXtensible Markup Language
<b>EC2N</b>	Elliptic Curve over G[2N]
<b>ECB</b>	Electronic Codebook (mode)
<b>ECC</b>	Elliptic Curve Cryptography
<b>ECDH</b>	Elliptic Curve Diffie-Hellman
<b>ECDSA</b>	Elliptic Curve Digital Signature Algorithm
<b>ECM</b>	Enterprise Configuration Manager
<b>ECP</b>	Encryption Control Protocol
<b>ECPA</b>	Electronic Communications Privacy Act
<b>EDGE</b>	Enhanced Data rates for GSM Evolution
<b>EDI</b>	electronic data interchange

<b>EDR</b>	enhanced data rate
<b>EEPROM</b>	electronically erasable programmable read-only memory
<b>EFI</b>	Extensible Firmware Interface
<b>EFS</b>	Encrypting File System
<b>EGP</b>	Exterior Gateway Protocol
<b>EH</b>	extension header
<b>EICAR</b>	European Institute for Computer Antivirus Research
<b>EIGRP</b>	Enhanced Interior Gateway Routing Protocol
<b>EIK</b>	EAP Integrity Key
<b>email</b>	electronic mail
<b>EMS</b>	energy management system
<b>EMS</b>	Enhanced Messaging Service
<b>EMSK</b>	Extended Master Session Key
<b>EPAL</b>	Enterprise Privacy Authorization Language
<b>EPC</b>	electronic product code
<b>EPCIS</b>	Electronic Product Code Information Services
<b>EPHI</b>	electronic protected health information
<b>EPS</b>	events per second
<b>ERP</b>	enterprise resource planning
<b>ESMS</b>	enterprise security management system
<b>ESMTP</b>	Extended Simple Mail Transfer Protocol
<b>ESN</b>	electronic serial number
<b>ESP</b>	Encapsulating Security Payload
<b>ESS</b>	Extended Service Set
<b>ETSI</b>	European Telecommunications Standards Institute
<b>EU</b>	European Union
<b>EUI-64</b>	Extended Unique Identifier 64 bit
<b>EV-DO</b>	Evolution-Data Optimized
<b>ext2fs</b>	Second Extended Filesystem
<b>ext3fs</b>	Third Extended Filesystem

**F**

<b>FAQ</b>	frequently asked questions
<b>FAR</b>	Federal Acquisition Regulation
<b>FASC-N</b>	Federal Agency Smart Credential Number
<b>FASP</b>	Federal Agency Security Practices
<b>FAT</b>	file allocation table
<b>FBCA</b>	Federal Bridge Certification Authority
<b>FBI</b>	Federal Bureau of Investigation
<b>FBI CJIS</b>	Federal Bureau of Investigation Criminal Justice Information Services Division
<b>FCC</b>	Federal Communications Commission
<b>FCC ID</b>	Federal Communications Commission Identification number
<b>FCL</b>	final checklist list
<b>FCPF</b>	Federal PKI Common Policy Framework
<b>FCRA</b>	Fair Credit Reporting Act
<b>FCS</b>	frame check sequence
<b>FDA</b>	Food and Drug Administration
<b>FDCC</b>	Federal Desktop Core Configuration
<b>FDCE</b>	Federated Development and Certification Environment

<b>FDE</b>	full disk encryption
<b>FDIC</b>	Federal Deposit Insurance Corporation
<b>FEA</b>	Federal Enterprise Architecture
<b>FEK</b>	file encryption key
<b>FFMIA</b>	Federal Financial Management Improvement Act
<b>FHSS</b>	frequency hopping spread spectrum
<b>FIB</b>	forwarding information base
<b>FICC</b>	Federal Identity Credentialing Committee
<b>FIPS</b>	Federal Information Processing Standards
<b>FIRST™</b>	Forum of Incident Response and Security Teams
<b>FISCAM</b>	Federal Information System Controls Audit Manual
<b>FISMA</b>	Federal Information Security Management Act of 2002
<b>FISSEA</b>	Federal Information Systems Security Educators' Association
<b>FLETC</b>	Federal Law Enforcement Training Center
<b>FMR</b>	false match rate
<b>FMS</b>	Fluhrer-Mantin-Shamir
<b>FNMR</b>	false non match rate
<b>FOIA</b>	Freedom of Information Act
<b>FPC</b>	Federal Preparedness Circular
<b>FPKI</b>	Federal Public Key Infrastructure
<b>FPKIA</b>	Federal Public Key Infrastructure Architecture
<b>FPKIPA</b>	Federal Public Key Infrastructure Policy Authority
<b>FQDN</b>	fully qualified domain name
<b>FRR</b>	false rejection rate
<b>FSO</b>	field security office
<b>FTC</b>	Federal Trade Commission
<b>FTCA</b>	Federal Trade Commission Act
<b>FTP</b>	File Transfer Protocol
<b>FUS</b>	Fast User Switching
<b>FY</b>	fiscal year

**G**

<b>GAO</b>	U.S. Government Accountability Office
<b>GB</b>	gigabyte
<b>GFAC</b>	generalized framework for access control
<b>GFIRST</b>	Government Forum of Incident Response and Security Teams
<b>GHz</b>	gigahertz
<b>GIG</b>	Global Information Grid
<b>GINA</b>	graphical identification and authentication
<b>GKEK</b>	Group Key Encryption Key
<b>GLB or GLBA</b>	Gramm-Leach-Bliley Act
<b>GMK</b>	Group Master Key
<b>GnuPG</b>	GNU Privacy Guard
<b>GOTS</b>	government off-the-shelf
<b>GPL</b>	general public license
<b>GPMC</b>	Group Policy Management Console
<b>GPO</b>	Group Policy Object
<b>GPRS</b>	general packet radio service
<b>GPS</b>	global positioning system

<b>GR</b>	graceful restart
<b>GRE</b>	Generic Routing Encapsulation
<b>GRS</b>	General Records Schedule
<b>GS1</b>	Global Standards One
<b>GSA</b>	U.S. General Services Administration
<b>GSM</b>	Global System for Mobile Communications
<b>GTC</b>	Generic Token Card
<b>GTEK</b>	group traffic encryption key
<b>GTK</b>	group temporal key
<b>gTLD</b>	generic top-level domain
<b>GTSM</b>	Generalized TTL Security Mechanism
<b>GUI</b>	graphical user interface

**H**

<i>HA</i>	high availability
<i>HA</i>	home agent
<b>HAG</b>	high assurance guard
<b>HCI</b>	host controller interface
<b>HERF</b>	hazards of electromagnetic radiation to fuel
<b>HERO</b>	hazards of electromagnetic radiation to ordnance
<b>HERP</b>	hazards of electromagnetic radiation to personnel
<b>HF</b>	high frequency
<b>HFS</b>	Hierarchical File System
<b>HHS</b>	U.S. Department of Health and Human Services
<b>HINFO</b>	host information
<b>HIP</b>	Host Identity Protocol
<b>HIPAA</b>	Health Insurance Portability and Accountability Act
<b>HIPERLAN</b>	high-performance radio local area network
<b>HKLM</b>	HKEY_Local_Machine
<b>HL7</b>	Health Level Seven
<b>HMAC</b>	keyed-hash message authentication code
<b>HMI</b>	human-machine interface
<b>HPA</b>	host protected area
<b>HPFS</b>	High-Performance File System
<b>HR</b>	human resources
<b>HSARPA</b>	Homeland Security Advanced Research Projects Agency
<b>HSPD</b>	Homeland Security Presidential Directive
<b>HTCIA</b>	High Technology Crime Investigation Association
<b>HTCP</b>	Hyper Text Caching Protocol
<b>HTML</b>	Hypertext Markup Language
<b>HTTP</b>	Hypertext Transfer Protocol
<b>HTTPS</b>	Secure Hypertext Transfer Protocol
<b>Hz</b>	hertz



## I

<b>I&amp;A</b>	identification and authentication
<b>I/O</b>	input/output
<b>I3P</b>	Institute for Information Infrastructure Protection
<b>IA</b>	information assurance
<b>IAB</b>	Internet Architecture Board
<b>IACIS®</b>	International Association of Computer Investigative Specialists
<b>IAIP</b>	Information Analysis and Infrastructure Protection
<b>IANA</b>	Internet Assigned Numbers Authority
<b>IAO</b>	information assurance officer
<b>IATF</b>	Information Assurance Technical Framework
<b>IBC</b>	iterated block cipher
<b>IBE</b>	identity-based encryption
<b>iBGP</b>	Internal Border Gateway Protocol
<b>IBMJSSE</b>	IBM Java Secure Socket Extension
<b>IBSS</b>	independent basic service set
<b>IC3</b>	Internet Crime Complaint Center
<b>ICAMP</b>	Incident Cost Analysis and Modeling Project
<b>ICANN</b>	Internet Corporation for Assigned Names and Numbers
<b>ICCID</b>	Integrated Circuit Card Identification
<b>ICCP</b>	Inter-control Center Communications Protocol
<b>ICF</b>	Internet Connection Firewall
<b>ICMP</b>	Internet Control Message Protocol
<b>ICP</b>	Internet Cache Protocol
<b>ICS</b>	industrial control system
<b>ICS</b>	Internet Connection Sharing
<b>ICSA</b>	International Computer Security Association
<b>ICV</b>	integrity check value
<b>ID</b>	identification
<b>IDART™</b>	Information Design Assurance Red Team
<b>IDE</b>	integrated development environment
<b>IDE</b>	Integrated Drive Electronics
<b>IDEA</b>	International Data Encryption Algorithm
<b>iDEN</b>	Integrated Digital Enhanced Network
<b>ID-FF</b>	Identity Federation Framework
<b>IDMEF</b>	Intrusion Detection Message Exchange Format
<b>IDMS</b>	identity management system
<b>IDPS</b>	intrusion detection and prevention system
<b>IDS</b>	intrusion detection system
<b>ID-SIS</b>	Identity Service Interface Specifications
<b>ID-WSF</b>	Identity Web Services Framework
<b>ID-WSF DST</b>	Identity Web Services Framework Data Services Template
<b>IE</b>	Internet Explorer
<b>IEC</b>	International Electrotechnical Commission
<b>IED</b>	intelligent electronic device
<b>IEEE-SA</b>	IEEE Standards Association
<b>IESG</b>	Internet Security Steering Group
<b>IETF</b>	Internet Engineering Task Force
<b>IETF BCP</b>	Internet Engineering Task Force Best Current Practice
<b>IETF RFC</b>	Internet Engineering Task Force Request for Comments

<b>IGMP</b>	Internet Group Management Protocol
<b>IGP</b>	interior gateway protocol
<b>IID</b>	interface identifier
<b>IIF</b>	information in identifiable form
<b>IIHI</b>	individually identifiable health information
<b>IIS</b>	Internet Information Services
<b>IKE</b>	Internet Key Exchange
<b>IM</b>	instant messaging
<b>IMAP</b>	Internet Message Access Protocol
<b>IMEI</b>	International Mobile Equipment Identity
<b>IMSI</b>	International Mobile Subscriber Identity
<b>INCITS</b>	InterNational Committee for Information Technology Standards
<b>IP</b>	Internet Protocol
<b>IPA</b>	initial privacy assessment
<b>IPComp</b>	Internet Protocol Payload Compression Protocol
<b>IPng</b>	Internet Protocol Next Generation
<b>IPS</b>	intrusion prevention system
<b>IPsec</b>	Internet Protocol Security
<b>IPv4</b>	Internet Protocol version 4
<b>IPv6</b>	Internet Protocol version 6
<b>IPX</b>	Internet Packet Exchange
<b>IR</b>	infrared
<b>IR</b>	interagency report
<b>IRC</b>	Internet Relay Chat
<b>IrDA®</b>	Infrared Data Association®
<b>IRQ</b>	interrupt request line
<b>IRS</b>	Internal Revenue Service
<b>IRTF</b>	Internet Research Task Force
<b>IS</b>	information system
<b>ISA</b>	interconnection security agreement
<b>ISA</b>	International Society of Automation
<b>ISAC</b>	information sharing and analysis center
<b>ISAKMP</b>	Internet Security Association and Key Management Protocol
<b>ISAP</b>	Information Security Automation Program
<b>ISAPI</b>	Internet Server Application Programming Interface
<b>ISATAP</b>	Intra-Site Automatic Tunnel Addressing Protocol
<b>ISF</b>	Information Security Forum
<b>ISID</b>	Industrial Security Incident Database
<b>IS-IS</b>	Intermediate System-to-Intermediate System
<b>ISM</b>	industrial, scientific, and medical
<b>ISM</b>	information security marking
<b>ISMS</b>	information security management system
<b>ISO</b>	International Organization for Standardization
<b>ISP</b>	Internet service provider
<b>ISSEA</b>	International Systems Security Engineering Association
<b>ISSO</b>	information systems security officer
<b>ISSPM</b>	information systems security program manager
<b>IT</b>	information technology
<b>ITAA</b>	Information Technology Association of America
<b>ITF</b>	Interrogator Talks First
<b>ITL</b>	Information Technology Laboratory

<b>ITU</b>	International Telecommunications Union
<b>ITU-T</b>	International Telecommunications Union-Telecommunication Standardization Sector
<b>IUT</b>	implementation under test
<b>IV</b>	initialization vector

**J**

<b>Java EE</b>	Java Platform, Enterprise Edition
<b>JAXR</b>	Java API for XML Registries
<b>JFFS2</b>	Journaling Flash File System, version 2
<b>JIT</b>	just-in-time
<b>JPEG</b>	Joint Photographic Experts Group
<b>JRE</b>	Java Runtime Environment
<b>JSM</b>	Java Security Manager
<b>JSP</b>	Java Server Pages
<b>JSSE</b>	Java Secure Socket Extension
<b>JTAG</b>	Joint Test Action Group
<b>JTC1</b>	Joint Technical Committee 1 (International Organization for Standardization [ISO]/International Electrotechnical Commission [IEC])
<b>JVM</b>	Java Virtual Machine

**K**

<b>KB</b>	kilobyte
<b>Kbps</b>	kilobit per second
<b>KDC</b>	key distribution center
<b>KEK</b>	key encryption key
<b>KG</b>	key generator
<b>KGD</b>	key generation and distribution
<b>kHz</b>	kilohertz
<b>KINK</b>	Kerberized Internet Negotiation of Keys
<b>KSG</b>	key stream generator
<b>KSK</b>	key signing key

**L**

<b>L2CAP</b>	Logical Link Control and Adaptation Protocol
<b>L2F</b>	Layer 2 Forwarding
<b>L2TP</b>	Layer 2 Tunneling Protocol
<b>L2VPN</b>	Layer 2 Virtual Private Network
<b>L3VPN</b>	Layer 3 Virtual Private Network
<b>LACNIC</b>	Latin American and Caribbean IP Addresses Registry
<b>LAN</b>	local area network
<b>LCD</b>	liquid crystal display
<b>LDA</b>	local delivery agent
<b>LDAP</b>	Lightweight Directory Access Protocol
<b>LED</b>	light emitting diode

<b>LF</b>	low frequency
<b>LFSR</b>	linear feedback shift register
<b>LIR</b>	local Internet registry
<b>LM</b>	LAN Manager
<b>LMP</b>	Link Manager Protocol
<b>LOC</b>	location (DNS record)
<b>LOS</b>	line-of-sight
<b>LRA</b>	Local Registration Authority
<b>LUA</b>	limited user account
<b>M</b>	
<b>m</b>	meter
<b>MAC</b>	mandatory access control
<b>MAC</b>	media access control (layer)
<b>MAC</b>	Medium Access Control
<b>MAC</b>	message authentication code
<b>MAF</b>	multi-mode authentication framework
<b>MAN</b>	metropolitan area network
<b>MAPS</b>	Mail Abuse Prevention System
<b>MB</b>	megabyte
<b>Mbps</b>	megabits per second
<b>MBR</b>	master boot record
<b>MBSA</b>	Microsoft Baseline Security Analyzer
<b>MD</b>	message digest
<b>ME</b>	mobile equipment
<b>MED</b>	multi-exit discriminator
<b>MEP</b>	message exchange pattern
<b>MES</b>	manufacturing execution system
<b>MHz</b>	megahertz
<b>MIB</b>	management information base
<b>MIC</b>	mandatory integrity control
<b>MIC</b>	message integrity check
<b>MIC</b>	message integrity code
<b>MIKEY</b>	Multimedia Internet KEYing
<b>MIME</b>	Multipurpose Internet Mail Extensions
<b>MIMO</b>	multiple-input, multiple-output
<b>MIN</b>	mobile identification number
<b>Mini SD</b>	mini secure digital
<b>MIP</b>	Mobile Internet Protocol
<b>MitM</b>	man-in-the-middle (attack)
<b>MLD</b>	Multicast Listener Discovery
<b>MMC</b>	Microsoft Management Console
<b>MMC</b>	MultiMediaCard
<b>MMCmobile</b>	MultiMediaCard Mobile
<b>MMS</b>	Multimedia Messaging Service
<b>MN</b>	mobile node
<b>MO</b>	magneto-optical
<b>MOA</b>	memorandum of agreement
<b>MOBIKE</b>	IKEv2 Mobility and Multihoming Protocol

<b>MODP</b>	modular exponential
<b>MOSS</b>	MIME Object Security Services
<b>MOU</b>	memorandum of understanding
<b>MOVS</b>	Modes of Operation Validation System
<b>MPA</b>	Mobile Prefix Advertisement
<b>MPLS</b>	multiprotocol label switching
<b>MPS</b>	Mobile Prefix Solicitation
<b>MQV</b>	Menezes-Qu-Vanstone
<b>MRI</b>	magnetic resonance imaging
<b>MS</b>	Microsoft
<b>MS</b>	mobile subscriber
<b>MSC</b>	mobile switching center
<b>MS-CHAP</b>	Microsoft Challenge Handshake Authentication Protocol
<b>MS-DOS</b>	Microsoft Disk Operating System
<b>MSDP</b>	Multicast Source Discovery Protocol
<b>MSEC</b>	multicast security
<b>MSEL</b>	Master Scenario Events List
<b>MSIL</b>	Microsoft Intermediate Language
<b>MSISDN</b>	Mobile Subscriber Integrated Services Digital Network
<b>MSK</b>	master session key
<b>MSKB</b>	Microsoft Knowledge Base
<b>MSSP</b>	managed security services provider
<b>MSWG</b>	Metadata Standards Working Group
<b>MTA</b>	mail transfer agent
<b>MTM</b>	Mobile Trusted Module
<b>MTU</b>	master telemetry unit
<b>MTU</b>	master terminal unit
<b>MTU</b>	maximum transmission unit
<b>MUA</b>	mail user agent
<b>mW</b>	milliwatt
<b>MX</b>	mail exchanger
 <b>N</b>	
<b>NA</b>	Neighbor Advertisement
<b>NAC</b>	network access control
<b>NACI</b>	National Agency Check and Inquiries
<b>NAP</b>	Network Access Protection
<b>NARA</b>	National Archives and Records Administration
<b>NAS</b>	network access server
<b>NAT</b>	network address translation
<b>NAT-PT</b>	network address translation—protocol translation
<b>NAT-T</b>	network address translation traversal
<b>NBA</b>	network behavior analysis
<b>NBAD</b>	network behavior anomaly detection
<b>NCES</b>	NetCentric Enterprise Services
<b>NCP</b>	National Checklist Program
<b>NCSD</b>	National Cyber Security Division
<b>NCSI</b>	NIST National Center for Standards and Certification Information
<b>ND</b>	Neighbor Discovery

<b>NDAC</b>	nondiscretionary access control
<b>NetBEUI</b>	NetBIOS Extended User Interface
<b>NetBIOS</b>	Network Basic Input/Output System
<b>NetBT</b>	NetBIOS over TCP/IP
<b>NFAT</b>	network forensic analysis tool
<b>NFC</b>	near field communication
<b>NFS</b>	network file system
<b>NFS</b>	Network File Sharing
<b>NH</b>	next header
<b>NIAC</b>	National Infrastructure Advisory Council
<b>NIAP</b>	National Information Assurance Partnership
<b>NIC</b>	network interface card
<b>NICC</b>	National Infrastructure Coordinating Center
<b>NIJ</b>	National Institute of Justice
<b>NIPC</b>	National Infrastructure Protection Center
<b>NIS</b>	Network Information System
<b>NISAC</b>	National Infrastructure Simulation and Analysis Center
<b>NISCC</b>	National Infrastructure Security Co-ordination Centre
<b>NIST</b>	National Institute of Standards and Technology
<b>NISTIR</b>	National Institute of Standards and Technology Interagency Report
<b>NLOS</b>	non-line-of-sight
<b>NPIVP</b>	NIST Personal Identity Verification Program
<b>NPPI</b>	nonpublic personal information
<b>NS</b>	name server
<b>NS</b>	Neighbor Solicitation
<b>NSA</b>	National Security Agency
<b>NSAPI</b>	Netscape Server Application Programming Interface
<b>NSEC</b>	Next Secure
<b>NSI</b>	national security information
<b>NSRL</b>	National Software Reference Library
<b>NSS</b>	Network Security Services
<b>NSTB</b>	National SCADA Test Bed
<b>NSTISSC</b>	National Security Telecommunications and Information Systems Security Committee
<b>NSTISSI</b>	National Security Telecommunications and Information Systems Security Instruction
<b>NTFS</b>	New Technology File System
<b>NTLM</b>	NT LAN Manager
<b>NTP</b>	Network Time Protocol
<b>NTTAA</b>	National Technology Transfer and Advancement Act of 1995
<b>NUD</b>	Neighbor Unreachability Detection
<b>NVD</b>	National Vulnerability Database
<b>NVLAP</b>	National Voluntary Laboratory Accreditation Program
<b>NW3C</b>	National White Collar Crime Center
<b>NX</b>	no execute

**O**

<b>OASIS™</b>	Organization for the Advancement of Structured Information Standards
<b>OCC</b>	Office of the Comptroller of the Currency
<b>OCIO</b>	Office of the Chief Information Officer
<b>OCSP</b>	Online Certificate Status Protocol
<b>ODBC</b>	Open Database Connectivity
<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>OEM</b>	original equipment manufacturer
<b>OFB</b>	output feedback (mode)
<b>OFDM</b>	orthogonal frequency-division multiplexing
<b>OGSA™</b>	Open Grid Services Architecture
<b>OHA</b>	Open Handset Alliance
<b>OIG</b>	Office of Inspector General
<b>OLE</b>	object linking and embedding
<b>OMB</b>	Office of Management and Budget
<b>ONS</b>	Object Naming Service
<b>OOB</b>	out-of-band
<b>OPC</b>	OLE for Process Control
<b>OpenPGP</b>	An Open Specification for Pretty Good Privacy
<b>OPM</b>	U.S. Office of Personnel Management
<b>ORB</b>	open relay blacklist
<b>OS</b>	operating system
<b>OSHA</b>	Occupational Safety and Health Administration
<b>OSI</b>	Open Systems Interconnection
<b>OSPF</b>	Open Shortest Path First
<b>OSS</b>	open source software
<b>OSSTMM</b>	Open Source Security Testing Methodology Manual
<b>OSVDB</b>	Open Source Vulnerability Database
<b>OTP</b>	one-time password
<b>OU</b>	organizational unit
<b>OVAL</b>	Open Vulnerability and Assessment Language
<b>OWASP</b>	Open Web Application Security Project
<b>OWL-S</b>	Web Ontology Language for Services

**P**

<b>P2P</b>	peer-to-peer
<b>PAC</b>	Privilege Attribute Certificate
<b>PAC</b>	Protected Access Credential
<b>PAD</b>	peer authorization database
<b>PAM</b>	pluggable authentication module
<b>PAN</b>	personal area network
<b>PAOS</b>	Reverse HTTP Binding for SOAP
<b>PAP</b>	Password Authentication Protocol
<b>PAP</b>	policy access point
<b>PAS</b>	publicly available specification
<b>PBA</b>	pre-boot authentication
<b>PBAC</b>	policy-based access control
<b>PBCC</b>	Packet Binary Convolutional Code

<b>PBE</b>	pre-boot environment
<b>PBX</b>	private branch exchange
<b>PC</b>	personal computer
<b>PCI</b>	Payment Card Industry
<b>PCI</b>	personal identity verification card issuer
<b>PCI DSS</b>	Payment Card Industry Data Security Standard
<b>PCMCIA</b>	Personal Computer Memory Card International Association
<b>PCN</b>	process control network
<b>PCP</b>	IP Payload Compression Protocol
<b>PCS</b>	process control system
<b>PCSF</b>	Process Control System Forum
<b>PCSRF</b>	Process Control Security Requirements Forum
<b>PDA</b>	personal digital assistant
<b>PDD</b>	Presidential Decision Directive
<b>PDF</b>	Portable Document Format
<b>PDP</b>	policy decision point
<b>PDS</b>	protective distribution systems
<b>PEAP</b>	Protected Extensible Authentication Protocol
<b>PED</b>	portable electronic devices
<b>PEM</b>	Privacy Enhanced Mail
<b>PEP</b>	policy enforcement point
<b>PFS</b>	perfect forward secrecy
<b>PGP</b>	Pretty Good Privacy
<b>PHI</b>	protected health information
<b>PHP</b>	PHP: Hypertext Preprocessor
<b>PHY</b>	Physical (layer)
<b>PIA</b>	privacy impact assessment
<b>PICSTM</b>	Platform for Internet Content Selection
<b>PII</b>	personally identifiable information
<b>PIM</b>	personal information management
<b>PIM-SM</b>	Protocol Independent Multicast—Sparse Mode
<b>PIN</b>	personal identification number
<b>PIP</b>	policy information point
<b>PIR</b>	Public Interest Registry
<b>PIV</b>	personal identity verification
<b>PKCS</b>	Public Key Cryptography Standard
<b>PKI</b>	public key infrastructure
<b>PKM</b>	privacy key management
<b>PKMv1</b>	Privacy Key Management Protocol version 1
<b>PKMv2</b>	Privacy Key Management Protocol version 2
<b>PL</b>	public law
<b>PLC</b>	programmable logic controller
<b>PMA</b>	Policy Management Authority
<b>PMK</b>	pairwise master key
<b>PMKSA</b>	Pairwise Master Key Security Association
<b>PMP</b>	point-to-multipoint
<b>PMTU</b>	path maximum transmission unit
<b>PN</b>	packet number
<b>PNG</b>	Portable Network Graphics
<b>POA&amp;M</b>	plan of action and milestones
<b>POC</b>	point of contact



<b>POC</b>	proof of concept
<b>PoE</b>	Power over Ethernet
<b>POP</b>	Post Office Protocol
<b>POP3</b>	Post Office Protocol version 3
<b>PP</b>	protection profile
<b>PPP</b>	Point-to-Point Protocol
<b>PPTP</b>	Point-to-Point Tunneling Protocol
<b>PPVPN</b>	provisioner-provided virtual private network
<b>PRA</b>	Paperwork Reduction Act
<b>Pre-PAK</b>	pre-primary authorization key
<b>PRF</b>	pseudorandom function
<b>PRNG</b>	pseudorandom number generator
<b>PSK</b>	pre-shared key
<b>PSTN</b>	public switched telephone network
<b>PTA</b>	privacy threshold assessment (or analysis)
<b>PTK</b>	pairwise transient key
<b>PTV</b>	perceived target value
<b>PUB</b>	publication
<b>PUK</b>	PIN unblocking key
<b>PVG</b>	patch and vulnerability group

**Q**

<b>QoP</b>	quality of protection
<b>QoS</b>	quality of service

**R**

<b>R&amp;D</b>	research and development
<b>R/W</b>	read/write
<b>RA</b>	receiver address
<b>RA</b>	Registration Authority
<b>RA</b>	remote assistance
<b>RA</b>	Router Advertisement
<b>RAAdAC</b>	risk adaptive access control
<b>RADIUS</b>	Remote Authentication Dial In User Service
<b>RAID</b>	redundant array of independent disks
<b>RAM</b>	random access memory
<b>RAT</b>	remote administration tool
<b>RBAC</b>	role-based access control
<b>RC2</b>	Rivest Cipher 2
<b>RC4</b>	Rivest Cipher 4
<b>RCE</b>	route cache entry
<b>RCFL</b>	Regional Computer Forensics Laboratory
<b>RCP</b>	Remote Copy Protocol
<b>RDBMS</b>	relational database management system
<b>RDP</b>	Remote Desktop Protocol
<b>REL</b>	rights expression language
<b>REP</b>	Robots Exclusion Protocol

<b>REST</b>	Representational State Transfer
<b>RF</b>	radio frequency
<b>RFC</b>	request for comments
<b>RFD</b>	route flap damping
<b>RFID</b>	radio frequency identification
<b>RFP</b>	request for proposal
<b>RIB</b>	routing information base
<b>RIP</b>	Routing Information Protocol
<b>RIPE NCC</b>	Réseaux IP Européens Network Coordination Centre
<b>RIPng</b>	Routing Information Protocol next generation
<b>RIR</b>	regional internet registries
<b>RIS</b>	Remote Installation Services
<b>RMA</b>	reliability, maintainability, and availability
<b>RMON</b>	Remote Monitoring
<b>RNG</b>	random number generator
<b>ROE</b>	rules of engagement
<b>ROM</b>	read-only memory
<b>RP</b>	responsible person (record)
<b>RPC</b>	remote procedure call
<b>RPF</b>	Reverse Path Forwarding
<b>RPO</b>	recovery point objective
<b>RR</b>	resource record
<b>RRSIG</b>	resource record signature
<b>RS</b>	relay station
<b>RS</b>	Router Solicitation
<b>RSA</b>	Rivest-Shamir-Adelman
<b>RSBAC</b>	rule set-based access control
<b>RSN</b>	Robust Security Network
<b>RSNA</b>	Robust Security Network Association
<b>RSNIE</b>	Robust Security Network Information Element
<b>RSO</b>	reduced sign-on
<b>RSS</b>	Really Simple Syndication
<b>RSSI</b>	received signal strength indication
<b>RSVP</b>	Resource ReSerVation Protocol
<b>RTF</b>	Rich Text Format
<b>RTLS</b>	real-time location system
<b>RTO</b>	recovery time objective
<b>RTP</b>	Real-Time Transport Protocol
<b>RTU</b>	remote terminal unit or remote telemetry unit
<b>RuBAC</b>	rule-based access control
<b>R-UIM</b>	Removable User Identity Module

**S**

<b>S/MIME</b>	Secure/Multipurpose Internet Mail Extensions
<b>SA</b>	security association
<b>SA</b>	source address
<b>SACL</b>	system access control list
<b>SAD</b>	security association database
<b>SAFER</b>	Secure And Fast Encryption Routine

<b>SAID</b>	security association identifier
<b>SAISO</b>	senior agency information security officer
<b>SAM</b>	Security Account Manager
<b>SAM</b>	software asset management
<b>SAMATE</b>	Software Assurance Metrics and Tool Evaluation
<b>SAML™</b>	Security Assertion Markup Language™
<b>SAN</b>	storage area network
<b>S-BGP</b>	Secure Border Gateway Protocol
<b>SC</b>	subcommittee
<b>SCADA</b>	supervisory control and data acquisition
<b>SCAP</b>	Security Content Automation Protocol
<b>SCP</b>	Secure Copy Protocol
<b>SCSI</b>	Small Computer System Interface
<b>SCTP</b>	Stream Control Transmission Protocol
<b>SD</b>	Secure Digital
<b>SDIO</b>	Secure Digital Input Output
<b>SDK</b>	software development kit
<b>SDLC</b>	System Development Life Cycle
<b>SDO</b>	standards development organization
<b>SDP</b>	Session Description Protocol
<b>SDP</b>	Service Discovery Protocol
<b>SEI</b>	Software Engineering Institute
<b>SEM</b>	security event management
<b>SEND</b>	Secure Neighbor Discovery
<b>SEP</b>	secure entry point
<b>SFTP</b>	Secure File Transfer Protocol
<b>SHA</b>	Secure Hash Algorithm
<b>SHA-1</b>	Secure Hash Algorithm 1
<b>shim6</b>	Site Multihoming by IPv6 Intermediation
<b>SHS</b>	Secure Hash Standard
<b>SIA</b>	Security Industry Association
<b>SID</b>	security identifier
<b>SIEM</b>	security information and event management
<b>SIG</b>	special interest group
<b>SIIT</b>	Stateless IP/ICMP Translation Algorithm
<b>SIM</b>	security information management
<b>SIM</b>	subscriber identity module
<b>SIP</b>	Session Initiation Protocol
<b>SIS</b>	safety instrumented system
<b>SKEME</b>	Secure Key Exchange Mechanism
<b>SLA</b>	service level agreement
<b>SMB</b>	Server Message Block
<b>SME</b>	subject matter expert
<b>S/MIME</b>	Secure/Multipurpose Internet Mail Extensions
<b>SMS</b>	Short Message Service
<b>SMS</b>	Systems Management Server
<b>SMT</b>	scar, mark and tattoo
<b>SMTP</b>	Simple Mail Transfer Protocol
<b>SNL</b>	Sandia National Laboratories
<b>SNMP</b>	Simple Network Management Protocol
<b>SNTP</b>	Simple Network Time Protocol

<b>SOA</b>	service-oriented architecture
<b>SOA</b>	start of authority (resource record)
<b>soBGP</b>	Secure Origin Border Gateway Protocol
<b>SoD</b>	separation of duties
<b>SOHO</b>	small office/home office
<b>SOP</b>	standard operating procedure
<b>SOR</b>	system of records
<b>SORN</b>	system of records notice
<b>SOX</b>	Sarbanes-Oxley Act of 2002
<b>SP</b>	service pack
<b>SP</b>	special publication
<b>SPD</b>	security policy database
<b>SPI</b>	security parameters index
<b>SPL</b>	Structured Product Labeling
<b>SPML™</b>	Service Provisioning Markup Language™
<b>SPP-ICS</b>	System Protection Profile for Industrial Control Systems
<b>SQL</b>	Structured Query Language
<b>SR</b>	service release
<b>SRES</b>	signed response
<b>SRTP</b>	Secure Real-Time Transport Protocol
<b>SS</b>	subscriber station
<b>SSDP</b>	Simple Service Discovery Protocol
<b>SSE-CMM</b>	Systems Security Engineering-Capability Maturity Model
<b>SSH</b>	Secure Shell
<b>SSI</b>	Server Side Includes
<b>SSID</b>	service set identifier
<b>SSL</b>	Secure Sockets Layer
<b>SSLF</b>	Specialized Security-Limited Functionality
<b>SSN</b>	social security number
<b>SSO</b>	single sign-on
<b>SSoD</b>	static separation of duty
<b>SSP</b>	secure simple pairing
<b>SSPI</b>	Security Support Provider Interface
<b>ST</b>	security target
<b>STA</b>	station
<b>STIG</b>	security technical implementation guide
<b>STS</b>	security token service
<b>SUID</b>	Set-User-ID
<b>SWSA</b>	Semantic Web Services Initiative Architecture
<b>SZ</b>	security zone

**T**

<b>TA</b>	test assertion
<b>TA</b>	transmitter address
<b>TACACS</b>	Terminal Access Controller Access Control System
<b>TAG</b>	technical advisory group
<b>TB</b>	terabyte
<b>TC</b>	technical committee

<b>TC68</b>	ISO/IEC Technical Committee 68
<b>TCP</b>	Transmission Control Protocol
<b>TCP/IP</b>	Transmission Control Protocol/Internet Protocol
<b>TDEA</b>	Triple Data Encryption Algorithm
<b>TDM</b>	time division multiplexing
<b>TDMA</b>	time division multiple access
<b>TEK</b>	traffic encryption key
<b>TERENA</b>	Trans-European Research and Education Networking Association
<b>TFT</b>	thin film transistor
<b>TFTP</b>	Trivial File Transfer Protocol
<b>TGS</b>	ticket-granting service
<b>TIA®</b>	Telecommunications Industry Association
<b>TID</b>	tag identifier
<b>TK</b>	temporal key
<b>TKIP</b>	Temporal Key Integrity Protocol
<b>TLD</b>	top-level domain
<b>TLS</b>	Transport Layer Security
<b>TMOVS</b>	Modes of Operation Validation System for the Triple DES Algorithm
<b>TOE</b>	target of evaluation
<b>TOS</b>	trusted operating system
<b>ToS</b>	Type of Service
<b>TPC</b>	transmission power control
<b>TPM</b>	trusted platform module
<b>TR</b>	technical report
<b>TRT</b>	transport relay translator
<b>TS</b>	technical specification
<b>TSA</b>	time stamping authority
<b>TSC</b>	TKIP sequence counter
<b>TSIG</b>	Secret Key Transaction Authentication for DNS
<b>TSIG</b>	Transaction Signature
<b>TSN</b>	transitional security network
<b>TSP</b>	Time-Stamp Protocol
<b>TT&amp;E</b>	test, training, and exercise
<b>TTF</b>	tag talks first
<b>TTL</b>	time to live
<b>TTLS</b>	Tunneled Transport Layer Security
<b>TTP</b>	trusted third party
<b>TXT</b>	text (record)

**U**

<b>U.S.</b>	United States
<b>U.S.C.</b>	United States Code
<b>UAC</b>	User Account Control
<b>UART</b>	universal asynchronous receiver/transmitter
<b>UBR</b>	Universal Description, Discovery and Integration (UDDI) Business Registry
<b>UCC</b>	Uniform Code Council, Inc.
<b>UCE</b>	unsolicited commercial email
<b>UDDI™</b>	Uniform Description, Discovery, and Integration™
<b>UDF</b>	Universal Disk Format

<b>UDP</b>	User Datagram Protocol
<b>UFS</b>	UNIX File System
<b>UHF</b>	ultra high frequency
<b>UI</b>	user interface
<b>UK</b>	United Kingdom
<b>UL</b>	Underwriters' Laboratories®
<b>ULA</b>	unique local address
<b>ULP</b>	upper layer protocol
<b>UML®</b>	Unified Modeling Language™
<b>UMPC</b>	ultra-mobile personal computer
<b>UMTS</b>	Universal Mobile Telecommunications System
<b>UNII</b>	Unlicensed National Information Infrastructure
<b>UPC</b>	Universal Product Code
<b>UPnP</b>	Universal Plug and Play
<b>UPS</b>	uninterruptible power supply
<b>URI</b>	Uniform Resource Identifier
<b>URL</b>	Uniform Resource Locator
<b>USB</b>	Universal Serial Bus
<b>US-CERT</b>	United States Computer Emergency Readiness Team
<b>USIM</b>	UMTS Subscriber Identity Module <i>or</i> Universal Subscriber Identity Module
<b>UTM</b>	unified threat management
<b>UUID</b>	Universally Unique Identifier
<b>UWB</b>	ultrawideband

**V**

<b>VB</b>	Visual Basic
<b>VB.NET</b>	Visual Basic .NET
<b>VBA</b>	Visual Basic for Applications
<b>VBScript</b>	Visual Basic Script
<b>VFD</b>	variable frequency drive
<b>VHD</b>	virtual hard drive
<b>VHF</b>	very high frequency
<b>VLAN</b>	virtual local area network
<b>VM</b>	virtual machine
<b>VMS</b>	vulnerability management system
<b>VoIP</b>	Voice over Internet Protocol
<b>VOIPSA</b>	Voice over IP Security Alliance
<b>VPN</b>	virtual private network
<b>VPNC</b>	Virtual Private Network Consortium
<b>VRRP</b>	Virtual Router Redundancy Protocol

**W**

<b>W3C®</b>	World Wide Web Consortium
<b>WAN</b>	wide area network
<b>WAP</b>	wireless access point
<b>WAP</b>	Wireless Application Protocol
<b>WaSP</b>	Web Standards Project

<b>WAVE</b>	Wireless Access for Vehicular Environment
<b>WAYF</b>	Where Are You From
<b>WCCP</b>	Web Cache Coordination Protocol
<b>W-CDMA</b>	Wideband Code Division Multiple Access
<b>WDS</b>	wireless distribution system
<b>WebDAV</b>	Web Distributed Authoring and Versioning
<b>WEP</b>	Wired Equivalent Privacy
<b>WfMC</b>	Workflow Management Coalition
<b>WfMS</b>	workflow management system
<b>WG</b>	working group
<b>WIDPS</b>	wireless intrusion detection and prevention system
<b>WiMAX</b>	Worldwide Interoperability for Microwave Access
<b>WLAN</b>	wireless local area network
<b>WMAN</b>	wireless metropolitan area network
<b>WMM®</b>	Wi-Fi Multimedia™
<b>WORM</b>	write once, read many
<b>WPA</b>	Wi-Fi Protected Access
<b>WPA2®</b>	Wi-Fi Protected Access® 2
<b>WPAN</b>	wireless personal area network
<b>WS</b>	Web services
<b>WSDL</b>	Web Services Description Language
<b>WSH</b>	Windows Script Host
<b>WS-I</b>	Web services interoperability
<b>WS-I</b>	Web Services Interoperability Organization
<b>WSS4J</b>	Web Services Security for Java
<b>WS-Security</b>	Web Services Security
<b>WSUS</b>	Windows Server Update Services
<b>WVE</b>	Wireless Vulnerabilities and Exploits
<b>WWAN</b>	wireless wide area network
<b>WWW</b>	World Wide Web

**XYZ**

<b>XACL</b>	XML Access Control Language
<b>XACML™</b>	eXtensible Access Control Markup Language™
<b>XCBC</b>	XOR Cipher Block Chaining
<b>XCCDF</b>	eXtensible Configuration Checklist Description Format
<b>XHTML</b>	Extensible Hypertext Markup Language
<b>XKMS</b>	XML Key Management Specification
<b>XML</b>	Extensible Markup Language
<b>XOR</b>	exclusive OR
<b>XrML</b>	eXtensible Rights Markup Language
<b>XSD</b>	XML Schema Definition
<b>XSL</b>	Extensible Stylesheet Language
<b>XSLT</b>	Extensible Stylesheet Language Transformation
<b>XSS</b>	cross-site scripting
<b>ZSK</b>	zone signing key

## Appendix A—References

Sources used in the development of the list of system and network security acronyms and abbreviations in this document include the following:

National Institute of Standards and Technology Publications, NIST Computer Security Division Resource Center Web site, <http://csrc.nist.gov/>

Internet Engineering Task Force (IETF), <http://www.ietf.org/>

Microsoft Hardware Developer Central, Glossary of Acronyms for PC and Server Technologies, <http://www.microsoft.com/whdc/resources/support/glossary.msp>

Organization for the Advancement of Structured Information Standards (OASIS), <http://www.oasis-open.org/home/index.php>



## Appendix B—Former Acronyms

Over time, as organizations, technologies, or other entities change, some acronyms associated with them may lose their definitions and thus no longer be considered acronyms. This appendix presents selected former acronyms related to system and network security. As additional acronyms in this publication lose their definitions, readers are encouraged to send notification of these, along with references to authoritative sources of information, to [securityacronyms@nist.gov](mailto:securityacronyms@nist.gov) for possible inclusion in future releases of this report.

<b>IEEE</b>	Originally defined as “Institute of Electrical and Electronics Engineers, Inc.” Definition dropped by the organization ( <a href="http://www.ieee.org/web/aboutus/home/index.html">http://www.ieee.org/web/aboutus/home/index.html</a> ).
<b>SOAP</b>	Originally defined as “Simple Object Access Protocol.” Definition dropped as of April 2007 ( <a href="http://www.w3.org/TR/soap12-part1/#intro">http://www.w3.org/TR/soap12-part1/#intro</a> ).