Acronyms

Acronym	Meaning
3G	3rd generation
3GPP	3rd Generation Partnership Project
A-SQUARE	Security Quality Requirements Engineering for Acquisition
AA	architecture analysis
ACL	access control list
ACM	Association for Computing Machinery
ACR	application control review
AEC	Availability Environment Classifications [HRG 2003]
AES	Advanced Encryption Standard
AHP	Analytical Hierarchical Process
AIS	Automated Information Systems
ALE	annualized loss expectancy
AM	attack models
ANOVA	analysis of variance
API	Application Program Interface
ARM	accelerated requirements method
ARO	annualized rate of occurrence
ARPANET	Advanced Research Projects Agency Network
ASEE	American Society for Engineering Education
ASIC	application-specific integrated circuit
ASOC	Air Support Operations Center
BAL	Business Action Language
BDA	Battle Damage Assessment
BGP	Border Gateway Protocol
BoK	body of knowledge

BSI	Build Security In
BSIMM	Building Security In Maturity Model
BYOD	bring your own device
C4	command, control, communications, and computers
CA	Certificate Authority
CAPEC	Common Attack Pattern Enumeration and Classification
CBK	common body of knowledge
CC	common criteria
CD	compact disc
CDMA	code division multiple access
CDR	critical design review
CIA	confidentiality, integrity, and availability
CIO	chief information officer
CIP	critical infrastructure protection
CIR	committed information rate
CIRT	computer incident response team
CISO	chief information security officer
CLASP	Comprehensive, Lightweight Application Security Process
CMMI	Capability Maturity Model Integration
CMU	Carnegie Mellon University
CMVM	Configuration Management and Vulnerability Management
CNCI	Comprehensive National Cybersecurity Initiative
CND	computer network defense
CNSS	Committee of National Security Systems
COBOL	COmmon Business-Oriented Language
CoD	Computing on Demand
COM	component object model

COTS	commercial, off-the-shelf
CP	compliance and policy
CPU	central processing unit
CR	code review
CRIC	Community Resources and Information Clearinghouse
CRM	customer relationship management
CSA	Cloud Security Alliance
CSE	Cyber Security Engineering
CSIAC	Cyber Security and Information Systems Information Analysis Center
CSIRT	computer security incident response team
CVE	common vulnerabilities and exposures
CWE	common weakness enumeration
CWS	common weakness enumeration
CYBEX	Cybersecurity Information Exchange Framework
CybOX	Cyber Observable eXpression
DASD(SE)	Deputy Assistant Secretary of Defense for Systems Engineering
DCS	distributed control systems
DDoS	distributed denial of service
DEA	Drug Enforcement Administration
DevOps	development and operations
DFD	data flow diagram
DHS	Department of Homeland Security
DLP	data loss prevention
DHCP	Dynamic Host Configuration Protocol
DLL	dynamic link library
DNA	deoxyribonucleic acid
DNS	domain name system

DoD	Department of Defense
DoS	denial-of-service
DOS	Disk operating system
DVD	digital versatile disc; digital video disc
EC2	Elastic Compute Cloud
ECTS	European Credit Transfer and Accumulation System
EF	exposure factor
EIGRP	Enhanced Interior Gateway Routing Protocol
ENISA	European Network and Information Security Agency
EoP	elevation of privilege
ERP	enterprise resource planning
ETA	event tree analysis
ETR	estimated time to repair
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation
FBI	Federal Bureau of Investigation
FDA	Food and Drug Administration
FDDI	fibre distributed data interface
FDIC	Federal Deposit Insurance Corporation
FIPS	Federal Information Processing Standard
FISMA	Federal Information Security Management Act
FMEA	Failure Mode and Effect Analysis
FP	Function Point(s)
FRP	full-rate production
FTA	Fault tree analysis
GCC	GNU Compiler Collection
GOTS	government, off-the-shelf

GPS	Global Positioning System
GSM	Global System for Mobile Communications
GSwE2009	Graduate Software Engineering Curriculum
HIPAA	Health Insurance Portability and Accountability Act
HR	human resources
HSPD	Homeland Security Presidential Directive
HSRP	Hot Standby Router Protocol
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
HVAC	heating, ventilating, and air conditioning
IA	information assurance
IaaS	Infrastructure as a Service
IAB	industry advisory board
IBIS	issue based information system
IC	intelligence community
ICR	infrastructure control review
ICS	industrial control system
ICS-CERT	Industrial Control Systems Cyber Emergency Response Team
ICT	information and communications technology
ID	intrusion detection
IDS	intrusion detection system
IEEE	Institute of Electrical and Electronics Engineers
IEEE-CS	Institute of Electrical and Electronics Engineers Computer Society
IETF	Internet Engineering Task Force
IMAF	Integrated Measurement and Analysis Framework
INFOSEC	information systems security
IT	information technology

ITUT	International Telecommunications Union Telecommunication Standardization Sector
IP	intellectual property
IP	internet protocol
IPS	intrusion prevention system
ISAC	information sharing and analysis center
ISCM	information security continuous monitoring
ISDN	integrated services digital network
ISO	International Organization for Standardization
ISP	internet service provider
iSSEc	Integrated Software & Systems Engineering Curriculum
ISSM	information systems security manager
ISSO	information systems security officer
ISV	independent software vendor
IT	information technology
JFC	joint forces commander
JTAC	joint terminal attack controller
KA	knowledge area
KU	knowledge unit
LAN	local area network
LARTC	Linux Advanced Routing and Traffic Control
LE	law enforcement
LOS	line of sight
LPC	loss prevention and communication
MAEC	Mid-Atlantic Equity Consortium
MBA	Master of Business Administration
MMS	Multimedia Messaging Service
MOTS	modified-off-the-shelf

MRD	Mission Risk Diagnostic
MRTG	Multi Router Traffic Grapher
MSE	Master of Software Engineering
MSEC	Microsoft Security Engineering Center
MSSE	master of Science in Software Engineering
MSSP	managed security service provider
MSwA	Master of Software Assurance
MSwA Core BoK	Master of Software Assurance Core Body of Knowledge
MSwA2010	Master of Software Assurance Curriculum
MSwA2010 BoK	Master of Software Assurance Curriculum Body of Knowledge
MSwE	Master of Software Engineering
MTBF	mean time between failures
MTTR	mean time to repair
MVS	multiple virtual storage
NATO	North Atlantic Treaty Organization
NCCIC	National Cybersecurity and Communications Integration Center
NCSC	National Cybersecurity Center
NCSD	National Cyber Security Division
NDIA	National Defense Industrial Association
NFC	near field communication
NIAP	National Information Assurance Partnership
NICE	National Initiative for Cybersecurity Education
NIPP	National Infrastructure Protection Plan
NISPOM	National Industry Security Program Operating Manual
NIST	National Institute of Standards and Technology
NIST SP	National Institute of Standards and Technology Special Publications
NCSD	National Cyber Security Division

NOC	network operations center
NSPD	National Security Presidential Directive
NVD	National Vulnerability Database
O-TTPF	Open Trusted Technology Provider Framework
ODNI	Office of the Director of National Intelligence
OM	order management
OMB	Office of Management and Budget
OMG	Object Management Group
OPM	U.S. Office of Personnel Management
OS	operating system
OSPF	open shortest path first
OVAL	Open Vulnerability and Assessment Lanaguage
OWASP	Open Web Application Security Project
P-SQUARE	Security Quality Requirements Engineering for Privacy
PaaS	Platform as a Service
PCI DSS	Payment Card Industry Data Security Standard
PCS	Process Control System or Programmable Control Systems
PDA	personal digital assistant
PED	portable electronic device
PII	personally identifiable information
PKI	public key infrastructure
PM	project manager *or* program manager
PPS	Partnership for Public Service
PT	penetration testing
QoS	Quality of Service
R&D	research and development
RAID	redundant array of independent disks

RAM	random access memory
RFI	request for information
RFP	request for proposal
RIP	Routing Interchange Protocol
RMA	return material authorization
RMS	records management software
ROI	Return on Investment
QA	quality assurance
RPC	remote procedure call
S3	Simple Storage Solution
SA	software assurance
SaaS	Software as a Service
SAM	software assurance metrics
SAML	Security Assertion Markup Language
SAN	storage area network
SCADA	Supervisory Control And Data Acquisition
SCAP	Security Content Automation Protocol
SCIF	sensitive compartmented information facility
SCM	supply chain management
SCR	systems control review
SCRM	supply chain risk management
SD	Secure Digital
SDL	software development lifecycle *or* security development life cycle
SDLC	software development life cycle
SDLTM	Security Development Lifecycle Threat Modeling
SE	software engineering *or* software environment

SEEPP	Software Engineering Ethics and Professional Practices
SEI	Software Engineering Institute
SFD	Security Features and Design
SIA	survivability and information assurance
SIEM	security information and event management
SLE	single loss expectancy
SM	strategy and metrics
SME	subject matter expert
SMS	Short Message Service
SOA	service-oriented architecture
SOC	security operations center
SPOC	single point of contact
SPOF	single point of failure
SQUARE	Security Quality Requirements Engineering
SQL	Structured Query Language
SR	security requirements *or* standards and requirements
SREP	security requirements engineering process
SSDP	Secure Software Development Process
SSE	Systems Security Engineering
SSF	software security framework
SSG	software security group
SSL	Secure Sockets Layer
SSMA	Software Security Measurement and Analysis
ST	security testing
STP	spanning tree protocol
STRIDE	spoofing, tampering, repudiation, information disclosure, denial of service, elevation of privilege

STIG	Security Technical Implementation Guide
STS	Strict Transport Security
SwA	software assurance
SwA BoK	Software Assurance body of Knowledge
SwACBK	Software Assurance Curriculum Body of Knowledge
SwEBOK	Software Engineering Curriculum Body of Knowledge
TACP	Tactical Air Control Party
TCP	Transmission Control Protocol
TIC	Trusted Internet Connection
TLS	Transport Layer Security
TST	time sensitive targeting
UAV	unmanned aerial vehicle
UPnP	Universal Plug and Play
UPS	uninterruptible power supply
URL	uniform resource locator
US-CERT	United States Computer Emergency Readiness Team
USB	universal serial bus
USSS	United States Secret Service
VPN	virtual private network
Vul	vulnerability
WAN	wide area network
WASC	Web Application Security Consortium
XSS	cross site scripting