

APPENDIX **B**

Acronyms and Initialisms

Table B-1 lists the acronyms and initialisms commonly used in CPwE documentation.

Table B-1 Acronyms and Initialisms

Term	Description
1:1	One-to-One
AAA	Authentication, Authorization, and Accounting
AD	Microsoft Active Directory
AD CS	Active Directory Certificate Services
AD DS	Active Directory Domain Services
AES	Advanced Encryption Standard
ACL	Access Control List
AH	Authentication Header
AIA	Authority Information Access
AMP	Advanced Malware Protection
AP	Access Point
ASDM	Cisco Adaptive Security Device Manager
ASIC	Cisco Application-Specific Integrated Circuit
ASR	Cisco Aggregation Services Router
AWG	American Wire Gauge
BYOD	Bring Your Own Device
CA	Certificate Authority
CAPWAP	Control and Provisioning of Wireless Access Points
CDP	CRL Distribution Points
CFD	Computational Fluid Dynamics
CIP™	ODVA, Inc. Common Industrial Protocol
CLI	Command Line Interface
CoA	Change of Authorization
CPwE	Converged Plantwide Ethernet
CRAC	Computer Room Air Conditioning
CRD	Cisco Reference Design
CRL	Certificate Revocation List
CSR	Certificate Signing Request

Table B-1 Acronyms and Initialisms (continued)

Term	Description
CSSM	Cisco Smart Software Manager
CTL	Certificate Trust List
CVD	Cisco Validated Design
DACL	Downloadable Access Control List
DC	Domain Controller
DCF	Dielectric Conduited Fiber
DHCP	Dynamic Host Configuration Protocol
DIG	Design and Implementation Guide
DLR	Device Level Ring
DMVPN	Dynamic Multipoint Virtual Private Network
DNS	Domain Name System
DPI	Deep Packet Inspection
DSRM	Directory Services Restoration Mode
EAP	Extensible Authentication Protocol
EAP-TLS	Extensible Authentication Protocol-Transport Layer Security
EIGRP	Enhanced Interior Gateway Routing Protocol
EMB	Effective Modal Bandwidth
EMI	Enterprise Manufacturing Intelligence, ElectroMagnetic Interference
EO	Equipment Outlet
EoIP	Ethernet over IP
EPC	Equalizing Potential Conductor
ERP	Enterprise Resource Planning
ESP	Encapsulating Security Protocol
ESR	Embedded Services Router
FAP	Fiber Adapter Panel
FHRP	First Hop Redundancy Protocols
FIB	Forwarding Information Base
FQDN	Fully Qualified Domain Name
FVRF	Front-door Virtual Route Forwarding
GRE	Generic Routing Encapsulation
HDPE	High-Density Polyethylene
HMAC	Hash Message Authentication Code
HMI	Human-Machine Interface
HSRP	Hot Standby Routing Protocol
IACS	Industrial Automation and Control System
ICS	Industrial Control System
IDC	Industrial Data Center
IDF	Industrial Distribution Frame
IDMZ	Industrial Demilitarized Zones
IEC	International Electrotechnical Commission
IES	Industrial Ethernet Switch (Allen-Bradley® Stratix®, Cisco IE)
IIoT	Industrial Internet of Things
IKE	Internet Key Exchange
IoT	Internet of Things

Table B-1 Acronyms and Initialisms (continued)

Term	Description
IP	Internet Protocol
IPDT	IP Device Tracking
ISAKMP	Internet Security Association and Key Management Protocol
ISP	Internet Service Provider
ISE	Cisco Identity Services Engine
ISR	Integrated Service Router
IT	Information Technology
LACP	Link Aggregation Control Protocol
LBS	Location Based Services
LIBO	Lock In/Block Out
LOS	Loss of Signal
LWAP	Lightweight Access Point
MAB	MAC Authentication Bypass
MAC	Media Access Control; Moves, Adds, and Changes
MDF	Master Distribution Frame
MDM	Mobile Device Management
ME	FactoryTalk View Machine Edition
MEC	Multi-Chassis Ethernet Channel
mGRE	Multipoint Generic Routing Encapsulation
M.I.C.E.	Mechanical Ingress Chemical/Climatic Electromagnetic (see TIA-1005)
MMC	Microsoft Management Console
MnT	Monitoring Node
MPLS	Multiprotocol Label Switching
MSE	Mobile Service Engine
MSS	Maximum Segment Size
MTTR	Mean Time to Repair
MTU	Maximum Transmission Unit
NAC	Network Access Control
NAT	Network Address Translation
NDES	Network Device Enrollment Service
NFPA	National Fire Protection Association
NHRP	Next Hop Routing Protocol
NOC	Network Operation Center
NPS	Microsoft Network Policy Server
NSF	Nonstop Forwarding
NSP	Native Supplicant Profile
NTP	Network Time Protocol
OCSP	Online Certificate Status Protocol
OD	Outer Cable Diameter
ODVA	Open DeviceNet Vendors Association
OEE	Overall Equipment Effectiveness
OEM	Original Equipment Manufacturer
OIR	Online Insertion and Removal
OM	Optical Multimode

Table B-1 Acronyms and Initialisms (continued)

Term	Description
OpEx	Operational Expense
OT	Operational Technology
OTA	Over-the-Air
OU	Organizational Unit
PAC	Programmable Automation Controller
PAgP	Port Aggregation Protocol
PAN	Policy Administration Node
PAT	Port Address Translation
PC	Personal Computer
PCoIP	PC over IP
PCS	Process Control System
PEAP	Protected Extensible Authentication Protocol
PKI	Public Key Infrastructure
PNZS	Physical Network Zone System
PoE	Power over Ethernet
POU	Power Outlet Unit
PSK	Pre-Shared Key
PSN	Policy Service Node
PTP	Precision Time Protocol
RA	Registration Authority
RADIUS	Remote Authentication Dial-In User Service
RAS	Remote Access Server
RD	Route Descriptor
RDG	Remote Desktop Gateway
RDP	Remote Desktop Protocol
RDS	Remote Desktop Services
REP	Resiliency Ethernet Protocol
RIB	Routing Information Base
RPI	Requested Packet Interval
RSSI	Received Signal Strength Indication
RTT	Round Trip Time
RU	Rack Unit
SA	Security Association
SaaS	Software-as-a-Service
SCEP	Simple Certificate Enrollment Protocol
SE	FactoryTalk View Site Edition
SFP	Small Form Factor Pluggable
SHA	Secure Hash Standard
SIG	Secure Internet Gateway
SNR	Signal to Noise Ratio
SPW	Software Provisioning Wizard
SSID	Service Set Identifier
SSO	Stateful Switch Over
STP	Shielded Twisted Pair; Spanning Tree Protocol

Table B-1 Acronyms and Initialisms (continued)

Term	Description
SVI	Switched Virtual Interface
SYN	Synchronization
TIA	Telecommunication Industry Association
TCP	Transmission Control Protocol
TLS	Transport Layer Security
TSB	TIA Technical Services Bulletin
UCS	Cisco Unified Computing System
UDP	User Datagram Protocol
UPS	Uninterruptable Powr Supply
UTP	Unshielded Twisted Pair
VDI	Virtual Desktop Infrastructure
VFD	Variable Frequency Drive
VLAN	Virtual Local Area Network
VM	Virtual Machine
VNC	Virtual Network Computing
VPN	Virtual Private Network
VRF	Virtual Route Forwarding
VRRP	Virtual Router Redundancy Protocol
VSL	Virtual Switching Link
VSS	Virtual Switching System
WAN	Wide Area Network
WGB	Work Group Bridge
wIPS	wireless Intrusion Prevention Service
WLAN	Wireless LAN
WLC	Cisco Wireless LAN Controller
WSA	Cisco Web Security Appliance
ZFW	Zone-Based Policy Firewall