



Virtualized Multiservice Data Center (VMDC) Abbreviations and Acronyms

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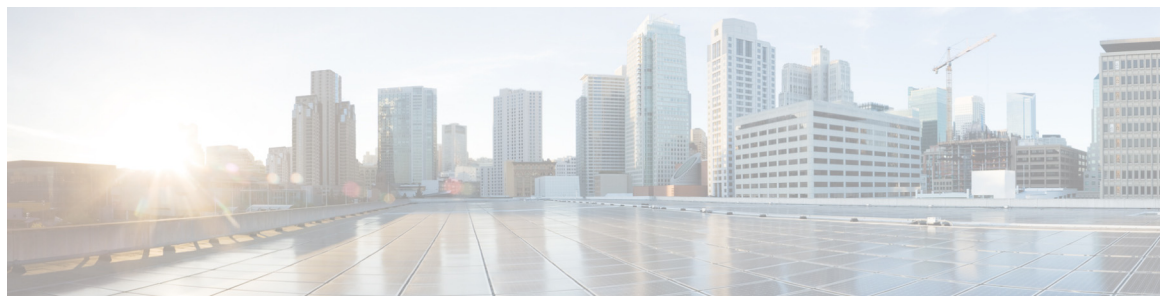
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Virtualized Multiservice Data Center (VMDC) Abbreviations and Acronyms

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VMDC Abbreviations and Acronyms

Table 1 lists Virtualized Multiservice Data Center (VMDC) abbreviations and acronyms, including Data Center Interconnect (DCI) terms, for authoring and customer reference.

Table 1 VMDC Abbreviations and Acronyms

Abbreviation	Expanded
10GE	Ten Gigabit Ethernet
1R2C	One Rate 2 Colors
AAA	Authentication, Authorization and Accounting
AAG	At A Glance (doc type)
ABR	Area Border Router
ACE	Application Control Engine (Cisco)
ACL	Access Control List
AH	Authentication Header
ARP	Address Resolution Protocol
AS	Autonomous System
ASA	Adaptive Security Appliance (Cisco)
ASBR	Autonomous System Border Router
ASIC	Application-Specific Integrated Circuit
AVG	Active Virtual Gateway
BDR	Backup Designated Router
BECN	Backward Explicit Congestion Notification (Frame Relay QoS)
BGP	Border Gateway Protocol
Bidir-PIM	Bidirectional Protocol Independent Multicast
BPDU	Bridge Protocol Data Unit
BVI	Bridge Virtual Interface
CAM	Content Addressable Memory
CBWFQ	Class-Based Weighted Fair Queuing (QoS)



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Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
CDP	Cisco Discovery Protocol (Cisco)
CE	Cache Engine
CE	Customer Edge
CEF	Cisco Express Forwarding
CFS	Cisco Fabric Service
CIFS	Common Internet File System
CIR	Committed Information Rate
CLI	Command Line Interface
CNA	Converged Network Adapter
CoPP	Control Plane Policing
CPU	Central Processing Unit
CSD	Cisco Secure Desktop (Cisco)
CSSC	Cisco Secure Services Client
CTA	Cisco Trust Agent
CTI	Common Test Interface
CWDM	Coarse Wavelength Division Multiplexing
DC	Data Center
DCBX	Data Center Bridging Exchange (IEEE 802.1AB)
DCE	Data Center Ethernet
DCI	Data Center Interconnect
DC-PE	Data Center Provider Edge
DCNM	Data Center Network Manager
DEC	Distributed EtherChannel
DF	Designated Forwarder
DFC	Distributed Forwarding Card (Cisco)
DG	Design Guide (doc type)
DHCP	Dynamic Host Control Protocol
DIG	Design and Implementation Guide
DM	Device Manager
DMZ	Demilitarized Zone
DR	Designated Router
DR	Disaster Recovery
DRS	Distributed Resource Scheduling
DSN	Data Center Service Node
DUT	Device Under Test
DVS	Distributed Virtual Switch
DWDM	Dense Wave Division Multiplexing
DWRR	Deficit Weighted Round Robin
EAP	Extensible Authentication Protocol

Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
EAPOL	Extensible Authentication Protocol over LAN
eBGP	External Border Gateway Protocol
ECMP	Equal Cost Multipathing
EIGRP	Enhanced Interior Gateway Routing Protocol
EOBC	Ethernet Out-of-Band Channel
EoMPLS	Ethernet over Multiprotocol Label Switching
EOU	EAP-over-UDP
ERSPAN	Encapsulated Remote Switched Port Analyzer
ESP	Encapsulating Security Protocol
ETS	Enhanced Transmission Selection
FC	Fibre Channel
FC-GS	Fibre Channel Generic Services
FCoE	Fibre Channel over Ethernet
FCS	First Customer Ship
FE	Fast Ethernet
FEC	Fast (Ethernet) EtherChannel
FHR	First Hop Router
FIB	Forwarding Information Base
FM	Fabric Manager
FSPF	Fabric Shortest Path First
FSU	Fast Software Upgrade
FT	Fault-Tolerant
FTP	File Transfer Protocol
FWSM	Firewall Services Module (Cisco)
GBIC	Gigabit Interface Converter
GE	Gigabit Ethernet
GEC	Gigabit (Ethernet) EtherChannel
GLBP	Gateway Load Balancing Protocol
GUI	Graphical User Interface
HA	High Availability
HBA	Host Bus Adapter
HQoS	Hierarchical QoS
HSRP	Hot Standby Router Protocol
HTTP	Hyper Text Transfer Protocol
IaaS	Infrastructure as a Service
iBGP	Internal Border Gateway Protocol
ICMP	Internet Control Message Protocol
ICS	Integrated Compute Stack
ICV	Integrity Check Value

Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IETF	Internet Engineering Task Force
IG	Implementation Guide (doc type)
IGMP	Internet Group Messaging Protocol
IGP	Interior Gateway Protocol
IKE	Internet Key Exchange
IOPS	Input/Output Operations Per Second
IP	Internet Protocol
IPC	Inter-Process Communication
IPM	Internetwork Performance Monitor
IPsec	IP Security
IPv4	Internet Protocol version 4
ISAKMP	Internet Security Association and Key Management Protocol
ISL	Inter-Switch Links
L2	(OSI Model) Layer 2
L3	(OSI Model) Layer 3
LACP	Link Aggregation Control Protocol
LAN	Local Area Network
LDP	Label Distribution Protocol
LDAP	Lightweight Directory Access Protocol
LHR	Last Hop Router
LP1X	LAN Port 802.1x
LPIP	LAN Port IP
LR	Long Range
LSA	Link State Advertisement
LUN	Logical Unit Number
MAC	Media Access Control
MACsec	MAC Security
MDS	Multilayer Director Switch
MEC	Multi-Chassis EtherChannel
MIB	Management Information Base
MLS	Multi-Layer Switching
MPLS	Multiprotocol Label Switching
MPLS-TC	MPLS Traffic Class
MQC	Modular QoS CLI (Cisco)
MSDP	Multicast Source Discovery Protocol
MSFC	Multilayer Switch Feature Card
MST	Multiple Spanning Tree
MSTI	Multiple Spanning Tree Instance

Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
MSTP	Multiservice Transport Platform
MTU	Maximum Transmission Unit
MUX	Multiplex
NAC	Network Admission Control
NAD	Network Access Device
NAS	Network Attached Storage
NAT	Network Address Translation
NDE	Netflow Data Export
NFS	Network File System
NGN	Next Generation Network
NIC	Network Interface Card
NSF	Non-Stop Forwarding
NTP	Network Time Protocol
OEO	Optical-to-Electrical-to-Optical
OID	Object Identifier
OIR	Online Insertion/Removal
ONS	Optical Networking System
OOB	Out-of-Band
OPEX	Operating Expense
OSI	Open Systems Interconnect
OSPF	Open Shortest Path First
P2P	Point-to-Point
PAgP	Port Aggregation Protocol
PAT	Port Address Translation
PB	PetaByte
PDU	Protocol Data Unit
PFC	Priority Flow Control
PFC	Policy Feature Card
PIM	Protocol Independent Multicast
PIM-DM	Protocol Independent Multicast – Dense Mode
PIM-SP	Protocol Independent Multicast – Sparse Mode
PIR	Peak Information Rate
PKL	Peer Keepalive Link
Pod ¹	Point of Delivery
PoE	Power over Ethernet
PVST	Per-VLAN Spanning-Tree
PVT	Private
QoS	Quality of Service
RAC	Real Application Cluster)

Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
RADIUS	Remote Authentication Dial-In User Service
RHI	Route Health Injection
RIP	Route Information Protocol
ROADM	Reconfigurable Optical Add/Drop Multiplexer
RP (Multicast)	Rendezvous Point
RP (Supervisor Architecture)	Route Processor
RPF	Reverse Path Forwarding
RPR+	Route Processor Redundancy Plus
rPVST+	Rapid Per-VLAN Spanning-Tree Plus
RSH	Remote Shell
rSPAN	Remote Switched Port Analyzer
SA	Security Association
SA	Source Active
SADB	Security Association Database
SAN	Storage Area Network
SCSI	Small Computer System Interface
SLA	Service Level Agreement
SLA	Service License Agreement
SLB	Server Load Balancing
SNMP	Simple Network Management Protocol
SP	Service Provider
SP	Switch Processor
SPAN	Switched Port Analyzer
SP-DC	Service Provider Data Center
SPI	Security Parameter Index
SP-NGN	Service Provider Next Generation Network
SPT	Shortest Path Tree
SR	Short Range
SRM	Site Recovery Manager
SSH	Secure Shell
SSL	Secure Sockets Layer
SSO	Stateful Switchover
STP	Spanning-Tree Protocol
STP	Spanning Tree Protocol
SVI	Switched Virtual Interface
TACACS	Terminal Access Controller Access-Control System
TCAM	Ternary Content Addressable Memory
TCP	Transmission Control Protocol
TDEV	Thin Device

Table 1 VMDC Abbreviations and Acronyms (continued)

Abbreviation	Expanded
TenGE	Ten Gigabit Ethernet
TFTP	Trivial File Transfer Protocol
TLS	Transport Layer Security
TTM	Time to Market
UCS	Unified Computing System (Cisco)
UCSM	Unified Computing System Manager (Cisco)
UDLD	Unidirectional Link Detection
UDLD-AM	Unidirectional Link Detection – Aggressive Mode
UDP	User Datagram Protocol
uRPF	Unicast Reverse Path Forwarding
VCE	Virtual Computing Environment
vCPU	Virtual CPU
vDS	vNetwork Distributed Switch
VEM	Virtual Ethernet Module
vFW	Virtual Firewall
VG	Virtual Gateway
VIC	Virtual Interface Card
VLAN	Virtual LAN
VM	Virtual Machine
VMAC	Virtual MAC
VMDC	Virtualized Multiservice Data Center (Cisco)
vMotion	Virtual Motion
VNMC	Virtual Network Management Center
VOQ	Virtual Output Queue
vPC	Virtual Port-Channel
VQI	Virtual Queue Index
VRF	Virtual Routing and Forwarding
VSAN	Virtual SAN
VSG	Virtual Security Gateway (Cisco)
VSL	Virtual Switch Link
VSS	Virtual Switch System (Cisco)
VTP	VLAN Trunking Protocol
WCCP	Web Cache Communication Protocol
WRED	Weighted Random Early Detection

1. A basic infrastructure module that is a logical repeatable construct with predictable infrastructure characteristics and deterministic functions. A pod identifies a modular unit of data center components and enables customers to add network, compute, and storage resources incrementally.

