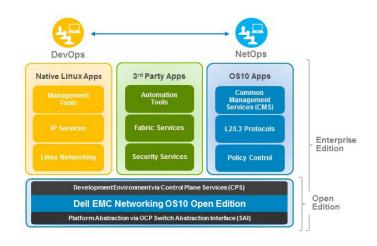


DELL EMC NETWORKING OS10.2.2 ENTERPRISE EDITION

The Dell EMC Networking OS10 Enterprise Edition is a Network Operating System supporting multiple architectures and environments. The networking world is moving from a monolithic stack to a pick-your-own-world, and the OS10 solution is designed to allow multi-layered disaggregation of the network functionality. While OS10 contributions to Open Source provide users freedom and flexibility to pick their own 3rd party networking, monitoring, management and orchestration applications, OS10 Enterprise Edition bundles an industry-hardened networking stack featuring standard L2 and L3 protocols over a standard and well accepted CLI interface.



Specifications

Supported Platforms

40G: S6010-ON, S6000-ON 10G: S4048T-ON, S4048-ON

1G: S3048-ON

Software Specifications

IEEE Compliance 802.1AB LLDP

TIA-1057 LLDP-MED
802.1s MSTP
802.1w RSTP
802.3ab Gigabit Ethernet (1000Base-T)
802.3ad Link Aggregation with LACP
802.3ae 10 Gigabit Ethernet
(10GBase-X)
802.3ba 40 Gigabit Ethernet
(40GBase-X)

Ethernet (10Base-T)

Fast Ethernet (100Base-TX)

Gigabit Ethernet (1000BaseX)

802.3i

802.3u

802.3z

Layer2 Protocols802.1DCompatible802.1pL2 Prioritization802.1QVLAN Tagging802.1sMSTP802.1wRSTP

802.1t RPVST+

802.3ad Link Aggregation with LACP

VLT (Virtual Link Trunking)

RFC Compliance

768 UDP 793 TCP 854 Telnet 959 FTP 1321 MD5 1350 TFTP

2474 Differentiated Services2698 Two Rate Three Color Marker

3164 Syslog 4254 SSHv2

General IPv4 Protocols

791 IPv4
792 ICMP
826 ARP
1027 Proxy ARP
1035 DNS (client)
1042 Ethernet Transmission
1191 Path MTU Discovery

1305 NTPv4 1519 CIDR 1812 Routers 1858 IP Fragment Filtering 2131 DHCP (server and relay)

2338 VRRP

3021 31-bit Prefixes

3046 DHCP Option 82 (Relay)

General IPv6 Protocols

1981 Path MTU Discovery*

2460 IPv6

2461 Neighbor Discovery*

2462 Stateless Address AutoConfig

2463 ICMPv6

2464 Ethernet Transmission

2675 Jumbo grams

3587 Global Unicast Address Format

4291 IPv6 Addressing

OSPF

1587 NSSA

1745 OSPF/BGP interaction

1765 OSPF Database overflow

2154 MD5

2328 OSPFv2

2370 Opaque LSA

3101 OSPF NSSA

3623 OSPF Graceful Restart (Helper

BGP

1997 Communities

2385 MD5

2439 Route Flap Damping

2796 Route Reflection

2842 Capabilities

2918 Route Refresh

3065 Confederations

4271 BGP-4

4360 Extended Communities

4893 4-byte ASN

5396 4-byte ASN Representation

5492 Capabilities Advertisement

Linux Distribution

Debian Linux version 8.4 Linux Kernel 3.16

MIBS

IP MIB- Net SNMP
IP Forward MIB- Net SNMP
Host Resources MIB- Net SNMP
IF MIB - Net SNMP
LLDP MIB
Entity MIB
LAG MIB
Dell-Vendor MIB
TCP MIB - Net SNMP
UDP MIB - Net SNMP
SNMPV2 MIB - Net SNMP

Network Management

SNMPv1/2 SSHv2

FTP, TFTP, SCP

Syslog

Port Mirroring

RADIUS

802.1X

Support Assist (Phone Home)

Automation

Control Plane Services APIs Linux utilities & Scripting Tools Netconf APIs

Quality of Service

Access Control Lists Prefix List Route-Map Rate Shaping (Egress)

Rate Policing (Ingress)

Scheduling Algorithms

Round Robin

Weighted Round Robin

Deficit Round Robin

Strict Priority

Weighted Random Early Detect*

* Partial support

Scalability

Number of VLANs	4094
Number of IPv4 Routes	16k
Number of IPv6 Routes	16K
Number of Interfaces in a Port Channel	32
Number of Port Channel Interfaces	128
Number of Loopback Interfaces	128
Number of Null Interfaces	128
Number of MAC Addresses	128k
Number of ARP entries	48k
Number of IPv4 ACLs	3k
Number of L2 ACLs	3k
Number of OSPF Sessions	64
Number of BGP Sesions	128
Number of VRRP Sessions	64
Number of VLT nodes	2
Number of VLT Peers	1
Number of DHCP sessions	16k
Number of SSH sessions	16
Number of FTP sessions	1
Number of local auth. user accounts	32
Number of concurrent SNMP get/set	15
Number of NTP Servers	300
Number of secondary IPs per interface	128

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Experts, insights and ease

Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.



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Let us analyze your multivendor environment and deliver a comprehensive report and action plan to build upon the existing network and improve performance.



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