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. 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 industry hardened networking stack featuring standard L2 and L3 protocols over a standard and well accepted CLI interface.

**Supported Platforms**
- 40G: S6010-ON, S6000-ON
- 10G: S4148F-ON, S4128F-ON, S4148FE-ON, S4148U-ON, S4048T-ON, S4048-ON
- 1G: S3048-ON

**Software Specifications**

**IEEE Compliance**
- 802.1AB: LLDP
- TIA-1057: LLDP-MED
- 802.1s: MSTP
- 802.1w: RSTP
- 802.3ad: Link Aggregation with LACP
- 802.3ae: 10 Gigabit Ethernet (10GBase-X)
- 802.23ba: 40 Gigabit Ethernet (40GBase-X)
- 802.3i: Ethernet (10Base-T)
- 802.3u: Fast Ethernet (100Base-TX)
- 802.3z: Gigabit Ethernet (1000BaseX)

**Layer2 Protocols**
- 802.1D: Compatible
- 802.1P: L2 Prioritization
- 802.1Q: VLAN Tagging
- 802.1s: MSTP
- 802.1w: RSTP
- 802.1t: RPVST+
- 802.3ad: Link Aggregation with LACP
- 802.3ae: VLT (Virtual Link Trunking)
- 802.1s: MSTP
- 802.1w: RSTP
- 802.1t: RPVST+
- 802.3ad: Link Aggregation with LACP
- VLT (Virtual Link Trunking)

**VLT Enhancements:**
- RSTP support
- Proxy ARP support
- DCGx, iSCSI support
- Routed v4/v6 VLT support.

**RFC Compliance**
- 768: UDP
- 793: TCP
- 854: Telnet
- 959: FTP
- 1321: MD5
- 1350: TFTP
- 2474: Two Rate Three Color Marker
- 3164: Syslog
- 4254: SSHv2
- 1981: Path MTU Discovery
- 2460: IPv6
- 2461: Neighbor Discovery
- 2465: Stateless Address AutoConfig
- 2463: ICMPv6
- 2464: Ethernet Transmission
- 2675: Jumbo grams
- 3587: Global Unicast Address Format
- 4291: IPv6 Addressing
- 2992: IPv4 and IPv6 ECMP
- 1587: NSSA
- 1745: OSPF/BGP Interaction
- 1765: OSPF Database overflow
- 2154: MD5
- 2328: OSPFv2

**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: VRP
- 1104: Policy Based Routing
- 3021: 31-bit Prefixes
- 3046: DHCP Option 82 (Relay)

**General IPv6 Protocols**
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**OSPF**
- 1587: NSSA
- 1745: OSPF/BGP Interaction
- 1765: OSPF Database overflow
- 2154: MD5
- 2328: OSPFv2
Route-Map
Rate Shaping (Egress)
Rate Policing (Ingress)
IPv based classification
DSCP based classification and remarking
DCBx
PFC/ETS
Scheduling Algorithms
Round Robin
Weighted Round Robin
Deficit Round Robin
Strict Priority Queuing
Weighted Random Early Detect

Scalability

<table>
<thead>
<tr>
<th>Number of Features</th>
<th>Value</th>
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<tbody>
<tr>
<td>Number of VLANs</td>
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<td>Number of IPv6 Routes</td>
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<tr>
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* partial support

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