The Dell EMC SmartFabric OS10 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, SmartFabric OS10 bundles industry hardened networking stack featuring standard L2 and L3 protocols over a standard and well accepted CLI interface.

OS10 - Software for the Open Networking era

- Scalable L2 and L3 Ethernet Switching designed for Highly Scalable Data Center fabric with state-of-the-art implementation of Multi-Chassi LAG (VLT) QoS, ACL and standards based IPv4, IPv6, and Multicast features
- Multi-tenancy support using VRF LITE, VMWare NSX integrations, and standards based Overlays (BGP EVPN)
- Increase VM Mobility region by stretching L2 VLAN within or across two DCs with VxLAN & VLT capabilities.
- Converged network support for Data Center Bridging, with priority flow control (802.1Qbb), ETS (802.1Qaz), DCBx and iSCSI TLV
- Software Defined Networking using Openflow 1.0/1.3 standards with Multiple controllers support for HA
- Enhanced debugging & troubleshooting capabilities including local mirroring, Encapsulated Remote Port Mirroring (ERPM), Flows Sampling (sFLOW)
- Network Streaming Telemetry monitoring sensors, transmitting telemetry data using gPB and gRPC transport.

Key features of Dell EMC SmartFabric OS10

- Standard networking features, interfaces and scripting functions for legacy network operations integration
- Standards-based switching hardware abstraction via Switch Abstraction Interface (SAI)
- Consistent DevOps framework across compute, storage and networking elements
- Pervasive, unrestricted developer environment via Control Plane Services (CPS)
- Layer 2 and 3 switching and routing protocols, along with Multicast and integrated IP services, quality of service, manageability and automation features
- Unmodified Linux kernel and unmodified Linux distribution
- Leverage common open source tools and best practices (YANG data models, commit scratchpad)
- Programmatic APIs, CLI automation using batch and aliases to simplify configuration management.
MIBS
BRIDGE-MIB
ENTITY-MIB
EtherLike-MIB
HOST-RESOURCES-V2-MIB
IEEE8021-PFC-MIB
IEEE8023-LAG-MIB
IF-MIB
IP-FORWARD-MIB
IP-MIB
LLDP-EXT-DOT1-MIB
LLDP-EXT-DOT3-MIB
LLDP-MIB
OSPF-MIB
OSPFV3-MIB
Q-BRIDGE-MIB (Get)
RFC1213-MIB
SFLOW-MIB
SNMP-FRAMEWORK-MIB
SNMP-MPD-MIB
SNMPv2-MIB
TCP-MIB
UDP-MIB
SNMP-USER-BASED-SM-MIB
SNMP-VIEW-BASED-ACM-MIB
SNMP-TARGET-MIB

Learn more at DellEMC.com/Networking