

DELL EMC PowerOne

Converged Infrastructure with autonomous operations to accelerate the shift to cloud outcomes

ESSENTIALS



All-in-One
System

#1 Cloud
Infrastructure
from Dell
Technologies *



Autonomous
Operations

98% Reduction in
Manual Tasks **



As-a-Service
Consumption
via Dell
Technologies
On Demand

Dell EMC PowerOne

Dell EMC PowerOne is a new Dell Technologies Cloud platform that brings together compute, storage, networking, virtualization, and data protection from across Dell EMC's Power portfolio in a fully-engineered system to transform your data center. With all-in-one simplicity, autonomous operations, and As-a-Service consumption options, PowerOne can accelerate your organization's shift from traditional operations to modern cloud outcomes.

Autonomous Operations to Power Transformation

Meet the Cloud era on your terms with the unique autonomous operations of PowerOne. Deploy robust, workload-ready vSphere clusters with just a few clicks and reduce manual tasks by 98%***, saving time and money while enabling you to focus on new initiatives that serve the entire business.

Built-in Automation for the Modern Data Center

PowerOne delivers advanced automation throughout the entire lifecycle

- ✓ **Launch Assist** – Guidance to initialize the system, optimize for VMware platforms, and simplify the configuration and deployment of vSphere clusters tailored to the exact needs of your workloads
- ✓ **Lifecycle Assist** – Automates time consuming and labor-intensive lifecycle management tasks, lowering risks and enabling you to focus on future innovation while maintaining reliable and secure infrastructure
- ✓ **Expansion Assist** – Ease the process of expanding system components and lower the risk of adopting of new technologies

PowerOne: Best-in-Class Technology, Automated

The Dell EMC Power portfolio, fully-engineered and highly automated

An intelligent controller is built-in and factory integrated with every PowerOne system, harnessing the unique value of PowerOne's best-in-class technology components and enhancing features by adding intelligence to automation.

Dell EMC Storage	PowerEdge MX Compute	PowerOne System Fabric
Zero Touch SAN Fabric Configuration	Dynamically Provision Compute Resources into Clusters	Intent based automated deployment and provisioning of PowerOne System Fabric
Discover and Inventory Available Storage Resources	Manage and Automate Lifecycle of Components	System Fabric Visibility and Lifecycle Management
Dynamically Create LUNs and Storage Volumes for use in Clusters	Automated Chassis Expansion	98% Reduction of network configuration steps
Intelligent Load Balancing Algorithms for Storage Fabric	Telemetry Aggregation	

The PowerOne Advantage

Dell EMC is #1 in Cloud Infrastructure*, with thousands of successful deployments of technology solutions for businesses in every vertical around the world, Dell EMC now brings this unmatched experience and engineering expertise to you in PowerOne.

Reduce Risk

Factory-built and pre-validated, PowerOne saves you time and greatly reduces risk by converging all components ahead of time, so you don't have to.

Save Time

With the PowerOne Controller, Launch Assist, and the PowerOne API, you can accelerate deployment and speed your time to production.

Save Money

PowerOne delivers lifecycle management, end-to-end system monitoring, and automated expansion processes to make ongoing operations efficient and safe, saving the costs that come with outages, maintenance, and lengthy upgrade processes.



Technical Specifications

Component	Details
COMPUTE	Chassis: MX7000 Compute sleds: PowerEdge MX740c (two-socket) and MX840c (four-socket)
MAXIMUM NUMBER OF SERVERS PER SYSTEM	MX7000 chassis: 8 Compute Domain: 80 Compute Pod: 240
NETWORKING	LAN: Leaf-Spine: <ul style="list-style-type: none"> • Dell EMC PowerSwitch S5232F-ON (leaf switches) • Dell EMC PowerSwitch Z9264F-ON (spine switches) Dell EMC MX7000 Networking IO Modules (IOM): <ul style="list-style-type: none"> • Dell EMC PowerEdge MX9116 Fabric Switching Engine (FSE) • Dell EMC PowerEdge MX7116 Fabric Expanding Module (FEM) SAN: Connectrix MDS 9148T, 9396T, 9706, 9710
STORAGE	Dell EMC Storage PowerMax Family (2000E, 2000P, 8000E, 8000P) Unity XT Family (480F, 680F, 880F)
VIRTUALIZATION	VMware: vSphere, NSX (for management cluster) Note: Bare metal deployments are also supported
DATA PROTECTION	For PowerOne Controller: Dell EMC NetWorker For Workload Clusters: any Dell EMC data protection product
SYSTEM MANAGEMENT	Compute: Two OOB management S4148T-ON switches. Designed for future scale out to encompass additional S4148T-ON OOB switches and S5232F-ON aggregation switches. Software: core management software includes VMware vSphere and vCenter, Dell EMC PowerOne API, Dell EMC PowerOne Navigator UI, and element managers
CABINET	Intelligent Physical Cabinet Solution from Dell EMC



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PowerOne



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*Based on IDC WW Quarterly Trackers for Converged Systems, Cloud IT Infrastructure, Enterprise Storage Systems, Server and Purpose-Built Backup Appliance Systems, Q1 2019, Vendor Revenue.

**Based on internal Dell EMC testing, Sept 2019. Actual results may vary.

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