Metro node appliance

Enables automated business continuity with true active-active synchronous replication over metro distance

Overview

Enable automated business continuity with zero RPO and RTO with metro node. True active-active synchronous replication over metro distance with multi-site dual access gives organizations full confidence that their data will always be available and accessible.

Metro node provides greater flexibility through multi-platform support and replication to any array and has zero performance impact on the storage array. Metro node specific models are available for PowerStore and Unity XT. The Dell branded metro node appliance supports Dell arrays including PowerVault ME4 and ME5, PowerStore, PowerMax, and XtremIO.   The metro node appliance also supports many 3rd party storage arrays. To see all the storage systems supported, please see the Dell E-Lab Simple Support Matrix at the link below. Two 1U units comprise a metro node cluster.

Dell EMC PowerStore Dell EMC Unity XT metro nodetro node appliance

Mechanical	Technical Specifications
Dimensions and weight	Height: 42.8mm (1.69") Width: 482.0mm (18.98") Depth: 808.5mm (31.8") Weight: 29.9kg, (48.3 lbs)
Form factor	1U (Two 1U units comprise a metro node cluster)
Bezel	1U LCD bezel with metro node insert identifier on the right side of the unit
Mounting rails	Rails support Dell and non-Dell racks
Cable Management Kit	Two 1U cable management arms (CMA) Management 1 and management 2 Cat 6 shielded Ethernet cables LCOM1 and LCOM2 SFP+ direct attach passive copper cables Two black power cords for primary utility connections Two gray power cords for secondary utility connections One red Cat 6 shielded Ethernet cable

System Architecture	Technical Specifications
Processors	Dual Intel Silver 4208 CPU (8 cores per CPU), 11M Cache, Turbo HT (85W)
Memory	64GB RDIMM Memory (32GB per CPU)
Cluster size	Two metro node 1U units
Management	Embedded in the metro node operating system
Storage	480GB SSD SATA Drive
Power supplies	Redundant 750W power supplies
Operating system	Metro node operating system
IO Card Configurations	PCIe Slot 1 and 2: Emulex Dual 32Gb/s HBAs PCIe Slot 3: Intel 10Gbe Quad Port Base-T (RJ45), LP NIC rNDC Intel 10GbE Quad Port SR, rNDC and dual Dell SPF+ SR Optics, 10GbE, 850nm for WAN

Cluster Witness Server	Technical Specifications
Optional: metro node cluster witness server	Available for VMware ESXi and MicroSoft Hyper-V environments. Metro node cluster witness server allows for a dedicated VM in a separate domain to provide additional failover automation. Metro node cluster server witness can also be deployed on a bare metal server. See the E-Lab Simple Support Matrix link below for details. Starting with metro node OS version 7.1, a cloud-base version is also supported for Amazon Web Services (AWS).

System Capacities	Technical Specifications
Virtual volumes	8,000 metro and 10,000 local
Storage volumes	8,000 metro and 10,000 local
Storage views	1,000
Storage volume size	64TB
Virtual volume size	64TB
Consistency Groups	1,024
Volumes per Consistency Groups	1,000
Clusters	2
IT nexus per cluster	3,200
IT nexus per front-end-port	800

Power and heat	Technical Specifications
Total power consumption	Input: 271 watts 1.2 amps
Heat dissipation (BTU/Hour)	924.7btu/h
Non-operating temperature and humidity	Temperature: 16.8 C 30.2 F Humidity:11.4 CFM 5.4 l/s
Operating temperature and humidity	Temperature:14.2 C 25.6 F Humidity: 34.4 CFM 16.2 l/s

Certifications and Compliance	Status
Energy Star	Complete
NIST BIOS	Complete
Statement of Volatility	Complete
TPM - TCG	Complete
TPM – FIPS 140-2	Complete
VPAT / Section 508	Complete
PKI: CAC/PIV	Complete
Supply Chain Risk Management	Complete

Operating Systems and Dell and 3rd Party Storage Array Support

Please refer to the Dell Technologies E-Lab Simplified Support Matrix for details or download the E-Lab Navigator mobile App for iPhone or Android

DELLTechnologies