

Metro node appliance

Enable automated business continuity with true active-active synchronous replication over metro or local distance

Product Overview

Enable automated business continuity with zero RPO and RTO with metro node. True active-active synchronous replication over metro or local 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 qualified array and has zero performance impact on the storage array. The Dell-branded metro node appliance supports all block-capable Dell arrays including PowerMax, PowerStore, UnityXT and PowerVault. The metro node appliance also supports some legacy Dell storage arrays and many 3rd party storage arrays. To see all the storage systems supported, please see the [Dell E-Lab Simple Support Matrix](#).

Available Model

The metro node model mn-216 is available in either 2-node or 4-node configurations. Detailed specifications are found in the tables below.



mn-216 2-node



mn-216 4-node

Note: The product ships with Dell LCD bezels.

Mechanical	Model mn-216 2-node (2N)	Model mn-216 4-node (4N)
Form Factor	6U of rack space	14U of rack space
Bezels	<ul style="list-style-type: none"> • 2x 2U Dell LCD bezel • 2x 1U Filler bezel 	<ul style="list-style-type: none"> • 4x 2U Dell LCD bezel • 1x 2U Filler bezel • 3x 1U Filler bezel • 1x 1U Standard bezel (open)
Mounting rails, Panels and Trays	Compatible with Dell and non-Dell racks <ul style="list-style-type: none"> • 2x dual Cable Management Arm (CMA) rail kits 	Compatible with Dell and non-Dell racks <ul style="list-style-type: none"> • 4x dual Cable Management Arm (CMA) rail kits • 1x Cable Management Panel (CMP) • 1x dual switch tray
Cable Set	<ul style="list-style-type: none"> • 1x MGMT1 and 1x MGMT2 Cat 6 shielded Ethernet cables • 1x LCOM1 and 1x LCOM2 SFP28 direct attach passive copper cables • 2x black power cords for primary utility connections • 2x gray power cords for secondary utility connections • 1x red Cat 6 shielded Ethernet cable for temporary service connection 	<ul style="list-style-type: none"> • 4x MGMT1 and 4x MGMT2 CAT6 shielded Ethernet cables • 1x SW1-MGMT and 1x SW2-MGMT CAT6 shielded Ethernet cables • 1x LCOM1 and 1x LCOM2 100GbE-to-4x25GbE Direct Attach Copper (DAC) breakout cables • 6x Black power cords for primary utility connections • 6x Gray power cords for secondary utility connections • 1x Red CAT6 shielded Ethernet cable for temporary service connection
Network Switches	Not Applicable	2x S5212F-ON
Front-End I/O Ports	8 Ports, 32Gb FC	16 Ports, 32Gb FC
Back-End I/O Ports	8 Ports, 32Gb FC	16 Ports, 32Gb FC
Metro (WAN Ports) *	4x 10/25 GbE WAN IP, 4x 32Gb WAN FC	8x 10/25 GbE WAN IP, 8x 32Gb WAN FC

* WAN connectivity can be either via WAN IP or FC

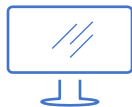
Node configuration details (each node/server level)	Metro Node Appliance mn-216
Processors	2 x Intel® Xeon® Gold 6434 (195W)
Memory	64GB RDIMM Memory (32GB per CPU)
Storage (OS Drives)	960GB SSD SATA drive
Management	Embedded in the metro node operating system
Power supplies	2 x 1400W power supplies per server, Redundant, Hot Pluggable
Operating system	Metro node operating system
IO Card Configurations	PCIe Slot 1: Dual Port 10/25GbE SFP28 FH NIC (WAN-IP) PCIe Slot 2: Dual Port 32Gb/s FC HBAs, FH (WAN-FC) PCIe Slot 3: Dual Port 10GbE Base-T (RJ45) LP NIC (SVC/CUST) PCIe Slot 4/5/7/8: Dual Port 32Gb/s FC HBAs, FH (FE/BE) OCP Slot: Dual 10/25GbE SFP28 NIC (LCOM) LOM Card (LAN on Motherboard): Dual Port 1GbE Base-T NIC (MGMT)
Dimensions	<ul style="list-style-type: none"> Height: 86.88mm (3.41") Width: 434mm (17") Depth: 736.29mm (28.9") <ul style="list-style-type: none"> server only without bezel and CMAs

Cluster Witness Server	Model mn-216
Optional: metro node cluster witness server (CWS)	<p>Metro Node Appliance cluster witness server can be deployed as a VM with VMware or Microsoft Hyper-V, on a bare metal server, or using an Amazon Web Services (AWS) environment.</p> <p>Starting with metro node OS version 8.0 a cloud-based version is also supported for Amazon Web Services (AWS).</p>

System Capacities	mn-216 2-node (2N)	mn-216 4-node (4N)
Virtual volumes	12,000 metro and 10,000 local	12,000 metro and 10,000 local
Storage volumes	12,000	12,000
Storage views	1,000	1,000
Storage volume size	64TB	64TB
Virtual volume size	64TB	64TB
Consistency Groups	1,024	1,024
Volumes per Consistency Groups	1,000	1,000
Clusters	2	2
IT nexus per cluster	6,400	12,800
IT nexus per front-end-port	800	800

Operating Systems, Dell Storage Array Support 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.



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