

# Metro Node Appliance

Synchronous active-active replication over metro or local distances

## Essentials

- ✓ Achieve continuous availability and zero RTO and RPO with no performance impact and automatic site failover through true active-active metro synchronous replication
- ✓ Enable non-disruptive data mobility for agile storage management within and across data centers
- ✓ Refresh storage technology without application downtime

## Benefits to you

- 30-minute simple installation
- Built-in management server
- Metro node is delivered as a - 4U cluster
- High performance with 32 Gb/s Fibre Channel
- Automatically initiate an instant site failover through cluster witness server

## Metro node overview

Enable your automated business continuity solution with zero RPO and RTO with the metro node appliance. True active-active synchronous replication over metro distances with multi-site dual access gives organizations full confidence that their data will always be available and accessible and there is no time associated with recovery.

The metro node appliance also supports local configurations for continuous application availability, data mobility to non-disruptively relocate workloads and enables storage technology refresh without application downtime.

## Multi-platform support

Metro node provides you greater flexibility through multi-platform support, workload granularity and replication to any qualified array. There is zero performance overhead, no duplicate capacity on the array and no additional software required on the host.

Supported Dell storage arrays include PowerMax, PowerStore, PowerVault, some legacy Dell arrays and some third party storage arrays. Refer to the Dell Technologies E-Lab Navigator for the latest supported systems: [Simplified Support Matrix](#)

## Cluster witness server

Cluster witness server for metro node is an optional software extension designed to be deployed in your metro node environment to provide automated and intelligent decision making. The cluster witness server technology provides the ability to automatically initiate an instant site failover. It can be deployed as a VM with VMware or Microsoft Hyper-V, or it can be deployed on a bare metal server. There's also a cloud-based edition for use in Amazon Web Services (AWS) environments.

## Metro node key features

- **Zero RPO and RTO** - Metro node is an active-active solution, which means it actively mirrors data across metro distance. Metro node provides a Recovery Point Objective (RPO) equal to zero, meaning there will be zero data loss. Metro node also provides a zero Recovery Time Objective (RTO), which means the time to recover is zero time or immediately.
- **Decision Time Objective (DTO)** – DTO is how much time is needed to make the decision to failover. With metro node's Metro Synchronous replication and cluster witness server, RPO, RTO and DTO are equal to zero.
- **Automatic Site Failover** - The cluster witness server helps mitigate a site failure.
- **Active-Active Metro** – Metro node provides optimized data access from both sites for increased performance.
- **Avoid Degradation to Array Performance** - Metro node replication is built-in to the appliance without any array overhead increases.
- **No Additional Host Software** - Metro node is self-contained and does not require any software be deployed on the hosts or a host reboot.
- **Multi-Platform Support** - Metro node enables replication between different Dell arrays and supports many 3<sup>rd</sup> party arrays.
- **Volume/LUN Level Granularity** - Metro node allows the replication of specific LUNs for application-level granularity, significantly reducing TCO and improving flexibility by giving customers the choice of which workloads to replicate.
- **Non-disruptive Addition of Consistency Groups** - Metro node supports consistency group add/delete operations without disruption and provides operational flexibility with zero downtime.

## Modernize now with metro node active-active synchronous replication

Metro node provides confidence that your application data will be there when needed. Fuel innovation with “always available” data brought to you by the metro node appliance from Dell Technologies. There are two metro node appliance models. Both are delivered with two units per cluster.

The mn-215 metro node model includes two 2U units for a total of 4U. Refer to the [Metro Node Specification Sheet](#) for specific details.





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