

# EXCHANGE 2010



## MICROSOFT® EXCHANGE SERVER 2010

This Exchange 2010 solution architecture is sized and architected according to the requirements detailed here. It is intended to serve as a blueprint or example for organizations whose requirements are similar. Each organization's requirements will differ and include other considerations not listed here. For a configuration sized to your specific requirements please contact your Dell representative.

## AGILE CONSOLIDATED MODEL 10,000 MAILBOXES ON M1000e/PS6500X

### Organizational Profile:

- 10,000 mailboxes
- 1GB average mailbox size limit
- .14 IOPS per user (~160 messages/day)

### Hardware Requirements:

- Dell EqualLogic PS6500 storage array (4u/48 drive)
- PowerEdge M1000e (blade chassis)
- PowerEdge M710 and M610 blade servers

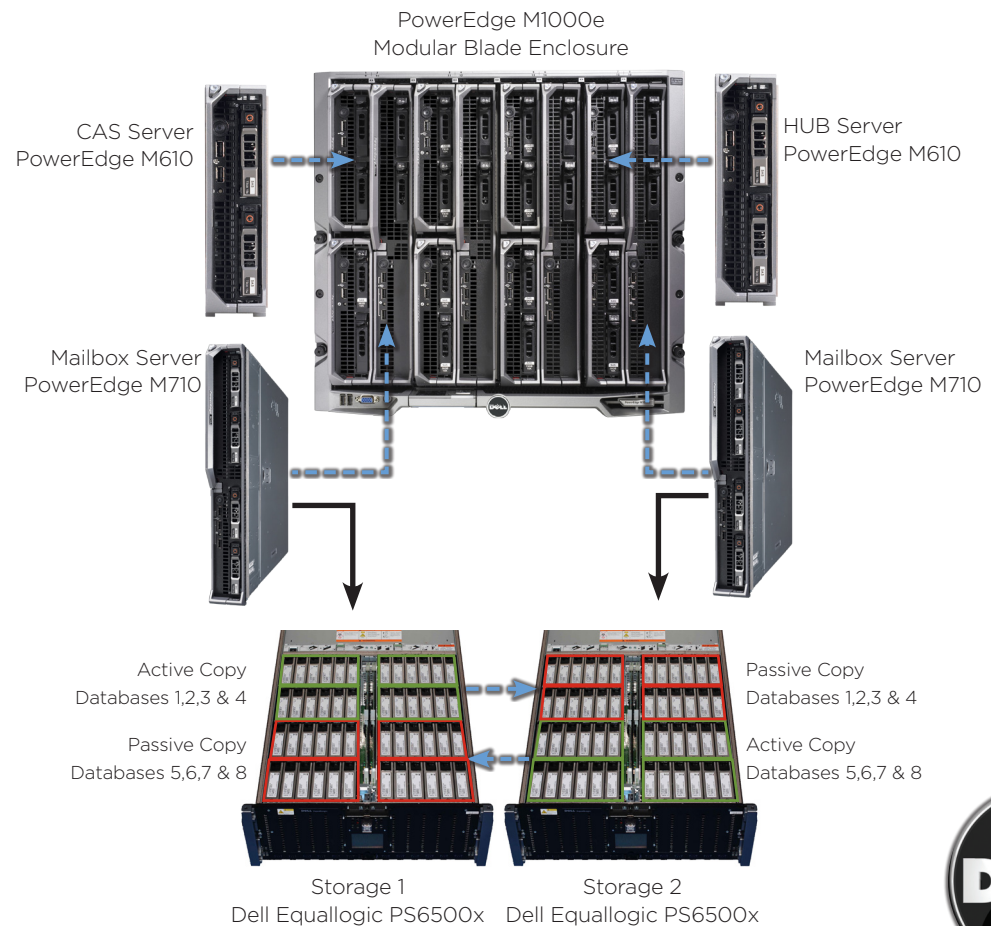
### Not Included:

- Backup and recovery infrastructure
- Disaster recovery or site resiliency
- Additional servers for Hub and CAS roles HA
- Additional M1000e blade chassis for increased HA
- UM and Edge roles

# AGILE CONSOLIDATED MODEL 10,000 MAILBOXES M1000e/PS6500

Input	Detail
Number of mailboxes	10,000
I/O Profile	0.14 IOPS
Size of mailbox	1GB
Number of copies	2 copy DAG
Recommended Solution	Detail
Mailbox Server	2 x PowerEdge M710
(Processor/Memory)	2 x Quad-Core processors / 144 GB memory
CAS Server	1 x PowerEdge M610
(Processor/Memory)	2 x Dual-Core processors / 12 GB memory
HUB Server	1 x PowerEdge M610
(Processor/Memory)	2 x Dual-Core processors / 24 GB memory
Storage Array	2 x PS6500X SAS 10K iSCSI Enclosure
Storage Configuration	Detail
Disk Type	10K rpm SAS - 600GB
RAID Type	RAID 50
Database Volumes	4 Active + 4 Passive Database per server
Mailbox per Database Volume	1250 Mailboxes
Additional parameters	Data and Log combined 25% estimated capacity for growth NTFS Allocation unit size = 64KB for both DB and Log

## RECOMMENDED HARDWARE CONFIGURATION



Each of the database volumes are striped across the entire array.

