

# 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 3,000 MAILBOXES ON R610/PS6000

### Organizational Profile:

- 3,000 mailboxes
- 1GB average mailbox size size limit
- .14 IOPS per user (~160 messages/day)

### Hardware Requirements:

- Dell EqualLogic PS 6000 storage array
- PowerEdge R610 (2S, 1u rack mount server)
- Two servers and storage arrays for High Availability/DAG nodes
- Assumes hardware based network load balancer for CAS server roles

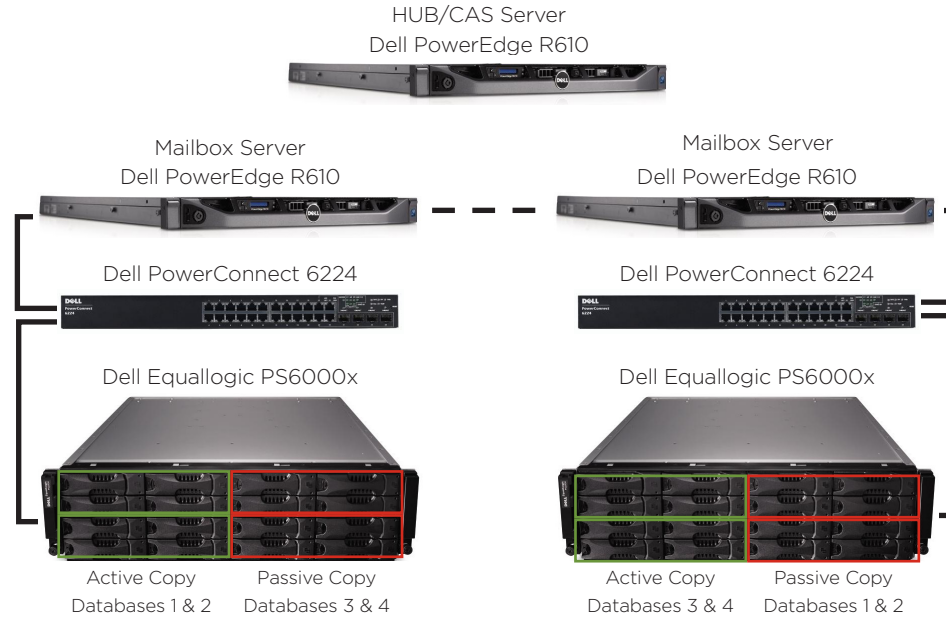
### Not Included:

- Backup and recovery infrastructure
- Disaster recovery or site resiliency
- Additional server for Hub\CAS HA
- UM and Edge roles

# AGILE CONSOLIDATED MODEL 3,000 MAILBOXES R610/PS6000

Input	Detail
Number of mailboxes	3,000
I/O Profile	0.14 IOPS
Size of mailbox	1GB
Number of copies	2
Recommended Solution	Detail
Mailbox Server	2 x PowerEdge R610
(Processor/Memory)	2 x Quad-Core processors / 48 GB memory
HUB/CAS Server	1 x PowerEdge R610
(Processor/Memory)	2 x Dual-Core processors / 12 GB memory
Storage Array	2 x EqualLogic PS6000x iSCSI Enclosure
Storage Configuration	Detail
Disk Type	10K rpm SAS - 600GB
RAID Type	RAID 50
Database Volumes	2 Active + 2 Passive Database per server
Mailbox per Database Volume	750 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.

