

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/CX4

Organizational Profile:

- 10,000 mailboxes
- 750MB average mailbox size limit
- .14 IOPS per user (~160 messages/day)

Hardware Requirements:

- Dell/EMC CX4-120 FC SAN
- PowerEdge M1000e (blade chassis)
- PowerEdge M610 blade servers
- DR configuration for site resiliency

Not Included:

- Backup and recovery infrastructure
- UM and Edge Roles

AGILE CONSOLIDATED MODEL 10,000 MAILBOXES M1000e/CX4

Input	Detail
Number of mailboxes	10,000
I/O Profile	0.14 IOPS
Size of mailbox	750MB
Number of copies	2 copy DAG
Recommended Solution	Detail
Mailbox Server	4 x PowerEdge M610 (2 servers on Local site and 2 servers on remote site)
(Processor/Memory)	2 x Quad-Core processors / 72 GB memory
CAS Server	Consolidated on Mailbox Server
HUB Server	Consolidated on Mailbox Server
Storage Array	1 x Dell EMC CX4-120 with 4 enclosures on local site 1 x Dell EMC CX4-120 with 4 enclosures on remote site
Storage Configuration	Detail
Disk Type	Data Disk - 600GB, 10K rpm FC
	Log Disk - 400GB, 10K rpm FC
RAID Type	RAID-5 for DATA
	RAID-1 for Log
Database Volumes	8 Active + 8 Passive Database
Additional parameters	Data and Log separate Each DB Data = 4 x 600GB disks (in RAID-5) Each DB Log = 2 x 400GB disk (in RAID-1) 2 Hot Spare Drives in each site 10% estimated additional storage space available RAID stripe or element size = 256KB NTFS Allocation unit size = 64KB for both DB and Log

RECOMMENDED HARDWARE CONFIGURATION

