

# 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 50,000 MAILBOXES ON M1000e/CX4**

### **Organizational Profile:**

- 50,000 mailboxes
- 1.5GB average mailbox size limit
- .1 IOPS per user (~100 messages/day)

### **Hardware Requirements:**

- Dell/EMC CX4-480 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 50,000 MAILBOXES M1000e/CX4

Input	Detail
Number of mailboxes	50,000
I/O Profile	0.1 IOPS
Size of mailbox	1.5GB
Number of copies	2 copy DAG stretched over 2 sites
Recommended Solution	Detail
Mailbox Server	10 x PowerEdge M610 (5 servers on Local site and 5 servers on remote site)
(Processor/Memory)	2 x Quad-Core processors / 72 GB memory
CAS Server	4 x PowerEdge M610 on each site
HUB Server	2 x Quad-Core processors / 12 GB memory
Storage Array	1 x Dell EMC CX4-480 with 20 enclosures on local site 1 x Dell EMC CX4-480 with 20 enclosures on remote site
Storage Configuration	Detail
Disk Type	SATA - 1 TB
RAID Type	RAID 10
Database Volumes	45 Active + 45 Passive Database
Additional parameters	Data and Logs combined Each DB Data and Log = 6 x 1 TB disks (in RAID-10) Databases per Mailbox server = 9 Databases Mailboxes per Database = 1,112 mailboxes 25 Hot spare drives for each site 10% estimated additional storage available RAID stripe or element size = 256KB NTFS Allocation unit size = 64KB for both DB and Log

## RECOMMENDED HARDWARE CONFIGURATION

