

SGN ENVIROMENT

MOICT is formulating a vision for a unified IT Services architecture to be shared across the organization. This vision begin by targeting the directory services as a starting point for enabling the end-state vision to Windows 2008; the second phase is about implementing the messaging solution to Exchange 2010 by implementing a high availability solution for the messaging platform the publishing of the messaging services to the internet will be done by TMG 2010 configured to ensure the high availability of the publishing services; the third phase will be the implementation of Office communication Server (Lync 2010) as a solution for Instant Messaging, audio/video conferencing. All this solution will be running under highly secured environment based on Windows 2008 security features.

EXCHANGE PHYSICAL DESIGN Servers Roles

Because organizations tend to group their management tasks around a core set of server roles, Exchange 2010 maps Exchange Server management to this same approach. A server role is a unit that logically groups the required features and components needed to perform a specific function in the messaging environment. The requirement of a server role is that it is a server that could be run as an atomic unit of scalability. A server role is composed of a group of features. Server roles, the primary unit of deployment, enable administrators to easily choose which features are installed on an Exchange server. Logically grouping features in server roles offers the following advantages:

- Reduces attack surface on an Exchange server.
- Allows the installation and configuration of Exchange server the way intended to use.
- Offers the ability to fully customize a server to support business goals and needs.

Exchange 2010 provides five distinct server roles that align with the way messaging systems are typically deployed and distributed. A server role is a unit that logically groups the features and components that are required to perform a specific function in the messaging environment. Each server role includes features that support its function together with related configuration and security settings and a list of predefined tasks for managing and configuring those features. Those five server roles are:

- Client Access Server
- Hub Transport
- Mailbox
- Unified Messaging
- Edge Transport

Lync Server Roles

A server running the Microsoft Lync Server 2010 communications software runs one or more server roles. A server role is a defined set of Lync Server 2010 functionality provided by that server. Organizations do

not need to deploy all available server roles in their network. Install only the server roles that contain the functionality required.

This section provides a brief overview of the server roles and the general features they provide:

- Front End Server and Back End Server
- A/V Conferencing Server
- Edge Server
- Mediation Server
- Monitoring Server
- Archiving Server
- Director

For most server roles, for scalability and high availability you can deploy pools of multiple servers all running the same server role. Each server in a pool must run an identical server role or roles. For some types of pools in Lync Server, you must deploy a load balancer to spread traffic between the various servers in the pool.

MODEL	OS	APPLACTIONS	SERVER ROLE
Dell Computer Corporation(PowerEdge 1800)	Microsoft® Windows Server® 2008 Standard SP1		
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	Arc CA Backup	
Inc.(PowerEdge 1950)	Microsoft Windows Server 2003 Standard Edition SP2	Blakberry	
Dell PowerEdge 2950	Microsoft Windows Server 2008 R2 Standard SP 1	Blakberry	
Inc.(PowerEdge 2650)	windows server 2008	Certificate Authority 2008	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	Domain controller for GOV forest
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	

Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	
Dell Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	
Dell Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	DC 2008	
PowerEdge R310 Server	Windows Server 2008	DC 2008	
PowerEdge R310 Server	Windows Server 2008	DC 2008	
PowerEdge R310 Server	Windows Server 2008	DC 2008	
Dell Inc.(PowerEdge 1850)	windows server 2008	DNS cach 2008	DNS SERVER
Dell Inc.(PowerEdge 1850)	windows server 2008	DNS cach 2008	
Inc.(PowerEdge 2650)	windows server 2008	DPM 2008	Data Protection Manager
Dell PowerEdge R610	Microsoft Windows Server 2008 R2 Standard SP 1	DPM 2008	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	Exchang CAS 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	Exchang CAS 2010	
Dell Inc.(PowerEdge 1950)	windows server 2008	Exchang Edag 2010	
Dell Inc.(PowerEdge 1950)	windows server 2008	Exchang Edag 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	Exchang Hub 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Standard SP1	Exchang Hub 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Enterprise SP1	Exchang Mail Box 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Enterprise SP1	Exchang Mail Box 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Enterprise SP1	Exchang Mail Box 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows	Exchang Mail Box 2010	

	Server® 2008 Enterprise SP1		
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Enterprise SP1	Exchang Mail Box 2010	
Inc.(PowerEdge 1950)	Microsoft® Windows Server® 2008 Enterprise SP1	Exchang Mail Box2010	
PowerEdge R710 Server	windows server 2008	Exchang Mail Box2010	
PowerEdge R710 Server	windows server 2008	Exchang Mail Box2010	
PowerEdge R710 Server	windows server 2008	Exchang Mail Box2010	
PowerEdge R710 Server	windows server 2008	Exchang Mail Box2010	
Inc.(PowerEdge 2950)	Microsoft Windows Server 2003 Standard Edition SP2	ForFront + wsas	
Dell PowerEdge R310	Microsoft Windows Server 2008 R2 Standard SP 1	ForFront End Point + SCCM + wsas 2010	
PowerEdge R910 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R910 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R910 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R910 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R710 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R710 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R810 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
PowerEdge R810 Server	Microsoft Windows Server 2008 R2 Datacenter SP 1	Hyper-V Host 2008	
Inc.(PowerEdge 2650)	Microsoft® Windows	Microsoft Lync	

	Server® 2008 Standard SP1		
Dell Computer Corporation PowerEdge 6650	Microsoft® Windows Server® 2008 Standard SP1	Right Management service	
Dell Computer Corporation(PowerEdge 6650)	Microsoft® Windows Server® 2008 Standard SP1	SCOM	
PowerEdge R710 Server	Microsoft Windows Server 2008 R2 Enterprise SP 1	SQL 2008	
PowerEdge R710 Server	Microsoft Windows Server 2008 R2 Enterprise SP 1	SQL 2008	
IBM System x3650 - [7979B9G]	Microsoft Windows Server 2008 R2 Standard SP0	VMM	
Dell PowerEdge R310	Microsoft Windows Server 2008 R2 Standard SP 1	VMM	

