

Building a Better Infrastructure With IBM Middleware on IBM Power Systems

Simplify Collaboration Services
with Lotus Domino

Supporting Employee Collaboration

Our Data Centers are full of servers that process email. There must be a better way.

Let me show you how **Lotus Domino running on Power Systems** can simplify your IT infrastructure – and give you more capabilities at the same time.



**Service Oriented Finance
CIO**

IBM

Lotus Notes and Lotus Domino

Domino Server Provides:

- Email, Calendar, Contacts
- Instant Messaging, Team Rooms
- Forms Application Platform

Domino Server



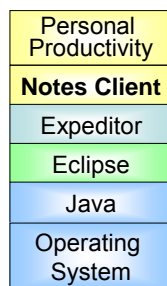
Power Systems

Domino is available for AIX, IBM i, z/OS, Linux, Solaris, Windows

Lotus Notes and Lotus Domino

Notes Client Provides:

- An integrated user interface to Domino function
- Built on open standards
- Disconnected operation
- Free Personal Productivity Applications
 - ▶ Open Document Format (ODF) and
 - ▶ Microsoft Office formats



Windows
Linux
Mac OS

Domino Server

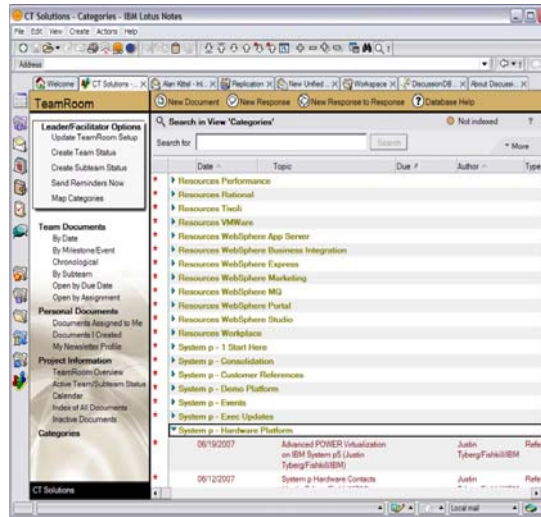


Power Systems

Domino is available for AIX, IBM i, z/OS, Linux, Solaris, Windows

Lotus Domino Team Rooms Enhance Team Productivity

- Provide centralized location to capture work and status of team
 - ▶ Project status
 - ▶ Document repository
 - ▶ Discussion database
 - ▶ Task assignments
 - ▶ Team calendar



IBM's Productivity Editors – A Free Alternative to Microsoft Office

- Presentation Editor, Spreadsheet Editor, Document Editor
- Includes most common editing features to satisfy a majority of business users
- Natively supports the Open Document Format (ODF) standard
- Includes support for Office formats (97, 2000, XP, 2003) and PDF
- Implemented in Java, derived from OpenOffice
- Fully integrated into the Notes client
- Also available as standalone free download ([IBM Lotus Symphony](http://symphony.lotus.com))

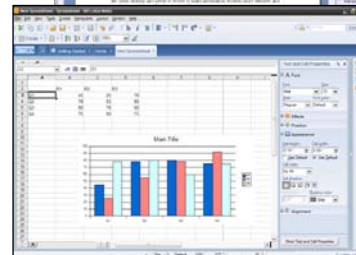
Presentation Editor



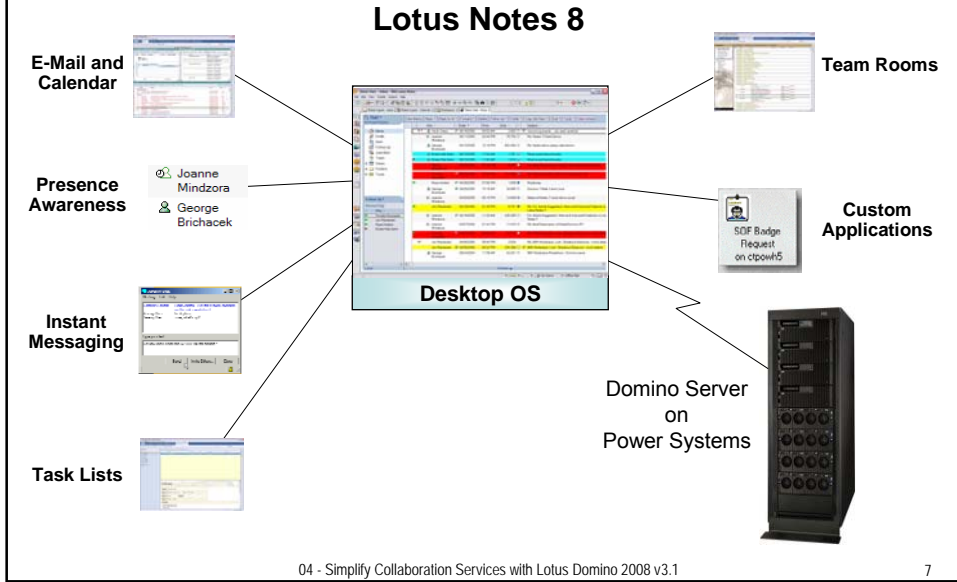
Document Editor



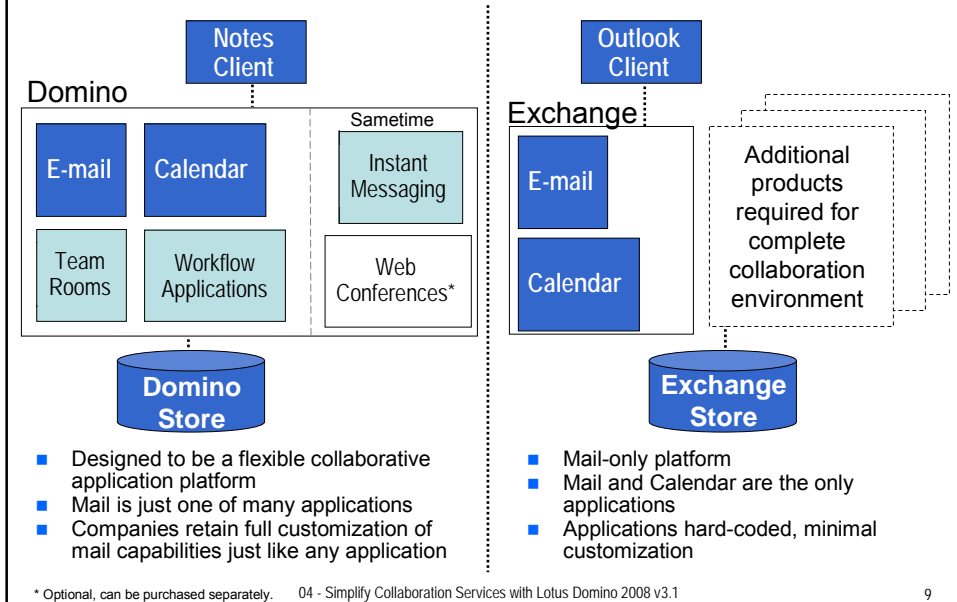
Spreadsheet Editor



DEMO: Notes Integrated User Experience

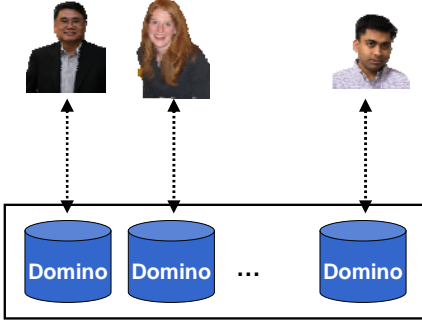


Domino Advantage: More Than Just Mail in a Single Package



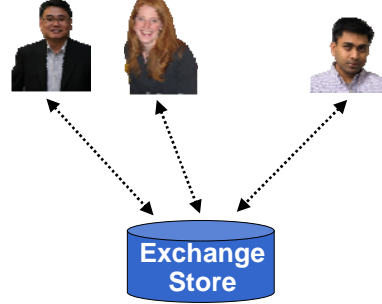
Key Domino Mail Advantage: Scalability

Lotus Notes and Domino



- Each user has individual mail database
- Each supports up to **64GB**
- Simplified management and administration

Microsoft Outlook and Exchange

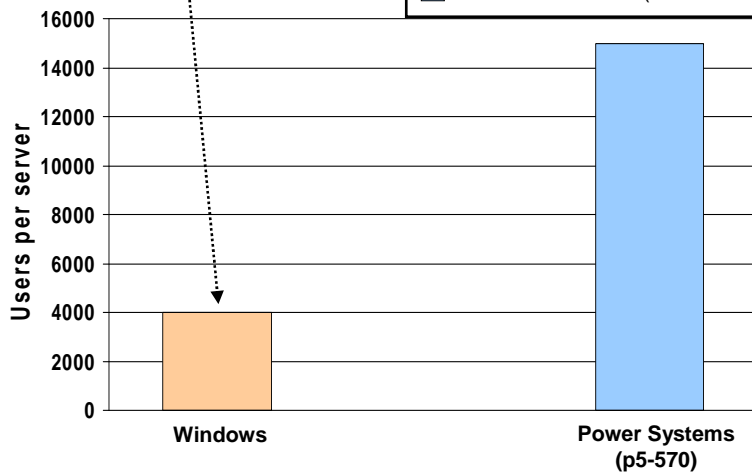


- All users operate out of a shared data store
- Exchange data store limited to **16 GB**: Up to 20 stores per server*
- Limited management tools, lengthy recovery cycles

* Source: Microsoft Exchange Documentation, www.microsoft.com

Lotus Domino is Designed to Run Efficiently on Powerful Power Systems SMP Servers

Exchange Can Require 4X More Servers!



1: Exchange sizing estimate based off of Microsoft guidelines (Microsoft Exchange Server TechCenter website, "Scaling Exchange Server 2003")
 2: Domino sizing results based on NotesBench NRPC benchmark results. Full details available at <http://www.ibm.com/lotus/domino>

Collaboration at Service Oriented Finance

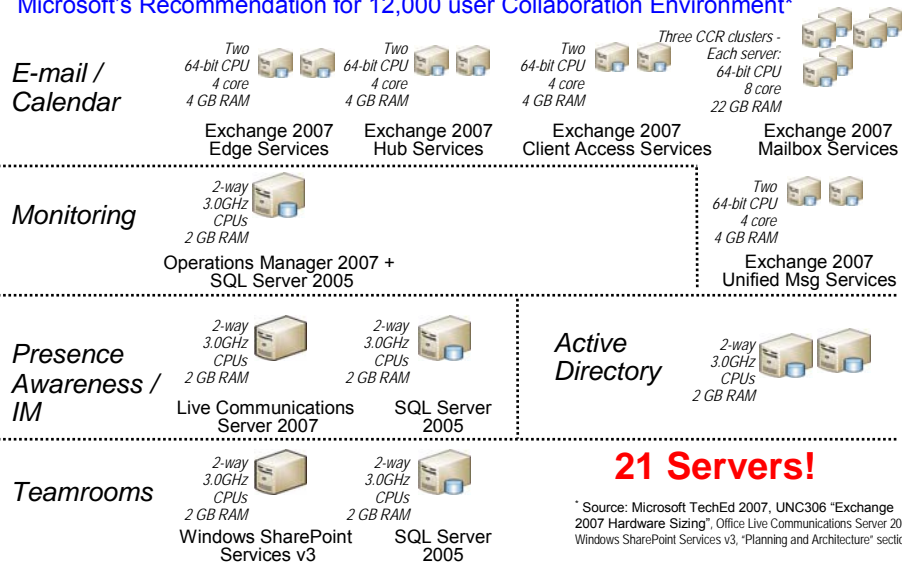
- Current Collaboration Environment
 - ▶ Microsoft Outlook and Exchange 2003
 - ▶ Uses Exchange public folders (shared documents, e-mails)
 - ▶ No real-time collaboration

- Considering migration to Microsoft's strategic collaboration offerings
 - ▶ Microsoft Outlook and Exchange 2007
 - ▶ Real-time collaboration

Migrating to Domino instead of Exchange 2007 will simplify the environment and reduce overall costs

Microsoft Clutters Your Infrastructure With Too Many Servers

Microsoft's Recommendation for 12,000 user Collaboration Environment*



Scale Up With Domino and Power Systems

Domino v8 and Sametime 7.5

*E-mail /
Calendar*

Monitoring

Teamrooms

*Presence
Awareness /
IM*

LPAR	Use
4 CPUs, 12GB	Mail 1 (4000 users)
	Mail 2 (4000 users)
4 CPUs, 12GB	Mail 3 (4000 Users)
	Teamrooms
4 CPUs, 8GB	Hub
	Sametime



*Primary - p5-570
(32 GB, 12 CPUs)*

LPAR	Use
4 CPUs, 12GB	Mail 1 (4000 users)
	Mail 2 (4000 users)
4 CPUs, 12GB	Mail 3 (4000 Users)
	Teamrooms
4 CPUs, 8GB	Hub
	Sametime



*Secondary - p5-570
(32 GB, 12 CPUs)*

*3 Logical Partitions
(LPARs) per machine*

2 Servers!

Eliminate the clutter!

04 - Simplify Collaboration Services with Lotus Domino 2008 v3.1

14

Three Year TCO Comparison (12,000 Users)

	Domino Collaboration Solution	Microsoft Collaboration Solution
Server Hardware	\$535,300 2 servers	\$502,000 21 servers
Server Software		
<i>E-mail / calendar</i>	\$98,800	\$27,900
<i>Presence aware. / IM</i>	Included	\$400
<i>Teamrooms</i>	Included	Included
<i>Monitoring, database, hub</i>	Included	\$9,700
Client Access Software		
<i>Server CAL</i>	\$0	\$1,235,500
<i>E-mail / calendar</i>	\$1,866,700	\$946,300
<i>Presence aware. / IM</i>	Included	\$190,000
<i>Teamrooms</i>	Included	\$288,000
Server Support and Environmentals	\$206,400	\$2,167,200
TOTAL	\$2,707,200	\$5,367,000 2x more expensive

Source: Server costs for MS software based on Dell PowerEdge Servers and sizing from Dell Exchange Advisor; Server costs for IBM Lotus software based on IBM TechLine experts.

04 - Simplify Collaboration Services with Lotus Domino 2008 v3.1

15

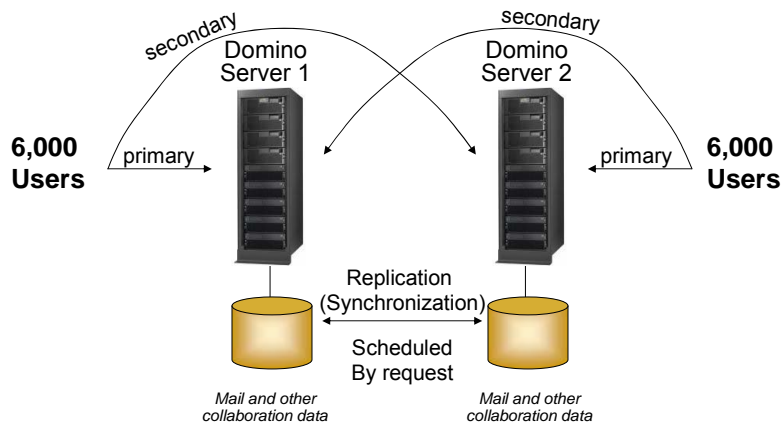
Three Year TCO Comparison (12,000 Users)

	Domino Collaboration Solution	Microsoft Collaboration Solution
Server Hardware	\$535,300 2 servers	\$502,000 21 servers
Server Software		
<i>E-mail / calendar</i>	\$98,800	\$27,900
<i>Presence aware. / IM</i>	Included	\$400
<i>Teamrooms</i>	Included	Included
<i>Monitoring, database, hub</i>	Included	\$9,700
Client Access Software		
<i>Server CAL</i>	\$0	\$1,235,500
<i>E-mail / calendar</i>	\$1,866,700	\$946,300
<i>Presence aware. / IM</i>	Included	\$190,000
<i>Teamrooms</i>	Included	\$288,000
Server Support and Environmentals	\$206,400	\$2,167,200
TOTAL	\$2,707,200	\$5,367,000 2x more expensive
+ Personal Productivity	\$0	\$450 x 12,000 = \$5,400,000
TOTAL	\$2,707,200	\$10,767,000 5x more expensive

Source: Server costs for MS software based on Dell PowerEdge Servers and sizing from Dell Exchange Advisor; Server costs for IBM Lotus software based on IBM TechLine experts
04 - Simplify Collaboration Services with Lotus Domino 2008 v3.1 16

Domino Clustering for Failover

- Domino clusters share workload (not a cold standby)



Domino Lowers Administrative Costs

- Lower administrator cost due to fewer servers
 - ▶ Domain monitoring, policy-based administration, network bandwidth, SPAM and regulatory compliance, Smart Upgrade
- Quality of Service features reduce administrative tasks
 - ▶ Domino clustering provides automatic failover and load-balancing, and automated server restarts
 - ▶ Transaction-logging and diagnostic data collection help diagnose problems
 - ▶ Advanced administration tools automate repetitive tasks
- Unmatched security features are built-in
 - ▶ Granular levels: server, database, view, field
 - ▶ Integrated, seamless PKI encryption, digital signatures, Execution Control Lists (ECL)

Collaboration Platform for IBM

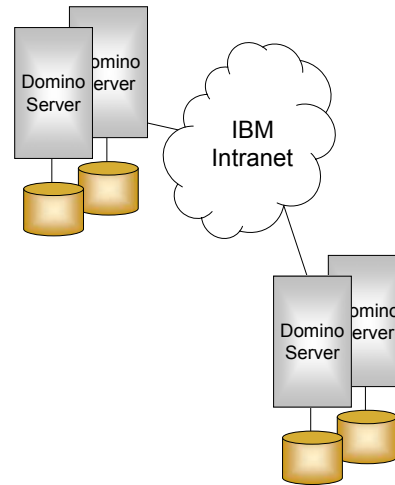
Let me show you how IBM has implemented Lotus Domino internally to support its own users.



IBM

Lotus Domino Infrastructure for IBM North America

- 140,000 users
 - ▶ 52 Domino servers in 2 data centers run on Power Systems servers with AIX 5.3
 - Average 2700 primary mail users per server
 - Boulder, CO and Poughkeepsie, NY
 - Includes cluster/failover servers
 - ▶ Supports many forms/workflow applications in addition to email



Another Domino Advantage: Freedom-of-Choice

Lotus software

Notes, Domino Web Access
POP/IMAP clients, MS Outlook

Mail Clients



Microsoft

Outlook, Outlook Express,
POP/IMAP clients, Outlook
Web Access

Client OS

Linux, Mac OS, Palm, Java
MIDP, Windows, Windows
Mobile, Blackberry OS



Windows, Windows Mobile,
Blackberry OS

Server OS

AIX, IBM i, z/OS, Linux,
Solaris, Windows



Windows

Domino, LDAP, Active Directory



Active Directory

Provides flexibility and preserves investments in infrastructure

Domino Has a History of Easier Upgrades

	Domino	Exchange
Multiple versions of software on same server	Yes	No
Operating System changes required for upgrade?	No requirement	Upgrades to Exchange have prerequisites for Windows upgrades For example, Exchange 2003 required Windows 2000 systems to upgrade to Windows 2003 first.
Migration of users to new version	No user outage Steps for migration <ol style="list-style-type: none"> 1. Replicate mail file from old server to the new server 2. Run in parallel to verify new environment. When ready... 3. Redirect client to new server via address book change 	User outages Different options <ul style="list-style-type: none"> ■ Move mailboxes ■ Update in place ■ Export / Import mail

Migrating from Exchange to Domino

Two Power Systems servers can replace 21 Exchange servers!

Let's simplify my infrastructure!



Service Oriented Finance
CIO

It's very straightforward to migrate from Exchange to Domino and Power Systems.

Let me show you.

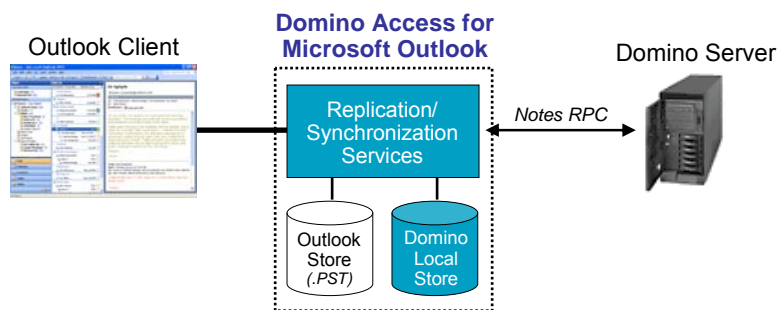


IBM

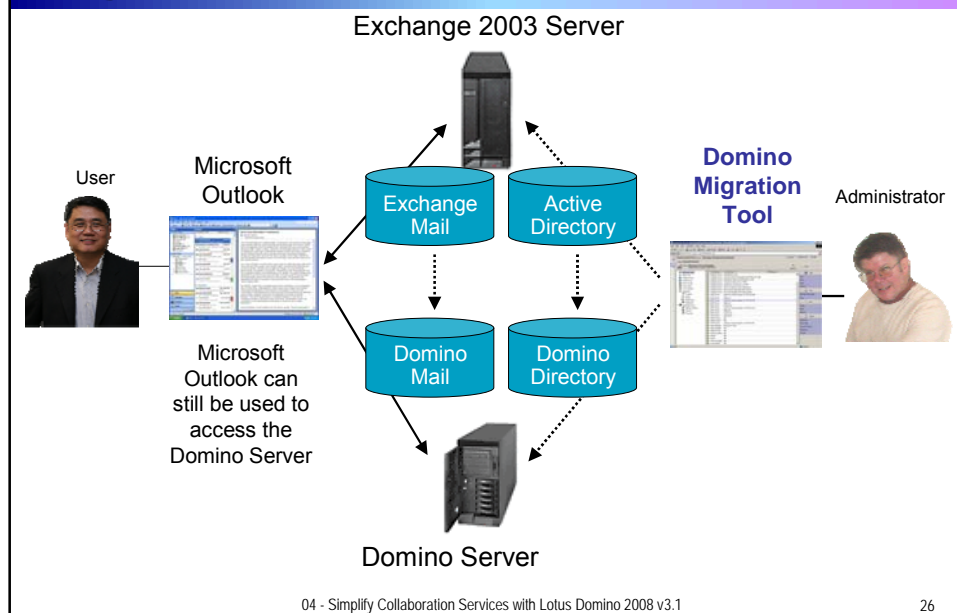
Domino Migration Tool

- Integrated into the Domino Administrator client
- The migration process
 1. Imports users and groups from Exchange and creates entries for them in the Domino Directory
 2. Creates an ID and mail file for every imported user
 3. Migrates the contents of mailboxes from the Exchange server into Domino
- Can be used for MS Exchange versions 5.0, 5.5, 2000, 2003

Domino Access for Microsoft Outlook Lets Users Continue Using Outlook



DEMO: Exchange 2003 to Domino 8 Migration



Migration Business Partners

- Automated Deployment Tool (Wolcott Systems Group)
 - ▶ Specifically designed to migrate and deploy the messaging client through automation and process management
 - ▶ Can reduce the time and cost of labor-intensive manual deployments, by as much as 80%
 - ▶ Integrates with standard migration tools from Lotus and Binary Tree
- Common Migration Tool (Binary Tree)
 - ▶ Automates mass migration of server side mail data
 - ▶ Requires no manual intervention
 - ▶ Provides user triggered migration with a single touch button

Metropolitan Life Insurance Simplified I/T

MetLife



By migrating all of MetLife's Domino and Exchange users to a consolidated e-mail infrastructure, they **reduced the number of servers by over 50%**. The time and expense required to manage the new, environment is expected to decrease substantially.

MetLife is one of the largest insurance and financial services providers in the U.S.

Challenge:

- Multiple e-mail infrastructures meant costs were spiralling out of control

Solution:

- Merged and simplified its messaging architecture on Notes and Domino
- Standardized its messaging infrastructure with a scalable, easy-to-manage server platform – IBM Power Systems servers running AIX

Reduce Costs with Domino and Power Systems

