

# Capitalize On The Power Of An IBM Solution

Smarter Collaboration With Lotus Leads To  
Better Business Decisions

We're spending too much on  
travel costs for team meetings.



**Service Oriented Finance**  
CFO

IBM Lotus Collaboration  
Software on Power helps  
virtual teams be more  
effective without travel.



**IBM**

## Smart Collaboration Supports Dispersed Virtual Teams

- No boundaries
- Open standards based
- Lotus Notes and Domino
  - ▶ Email, calendar and more
- Lotus Symphony
  - ▶ Productivity applications
- Lotus Sametime
  - ▶ Instant Messaging with Unified Communications
- Lotus Quickr
  - ▶ Shared team places
- Lotus Connections
  - ▶ Expertise and knowledge discovery



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3

## How Can We Make Collaboration Support Smarter?

- Collaborate with anyone at anytime
  - Different locations
  - Employees, customers and partners
  - Share information in standard formats
  - Minimum client prerequisites (browser only)
- Collaborate in a more effective way
  - Find right people at the right time
  - Leverage employee knowledge for the task at hand
  - Use tools designed for effective collaboration
- Deliver at a lower cost on a dynamic infrastructure



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4

# Domino On Power Systems Is The Foundation For Smarter Collaboration

Lotus Symphony  
Lotus Notes

*Notes and Symphony support Windows, Linux, and Mac OS*



Lotus Domino



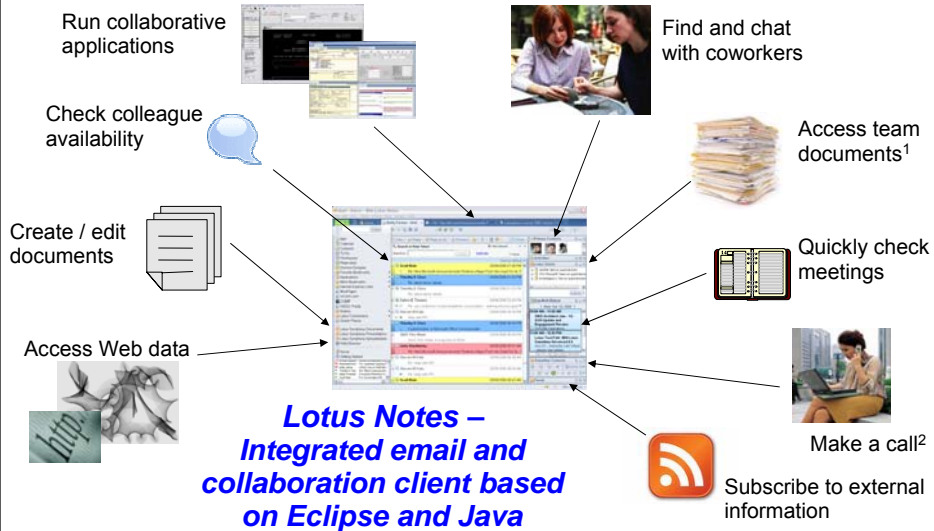
## Lotus Notes:

- Extensible rich client for Domino
- Built on open standards (Eclipse RCP, Java)
- Includes Lotus Symphony productivity tools

## Lotus Domino:

- Server platform for email, calendar, contacts, and collaborative applications
- Top down enterprise security
- Extensive domain monitoring included
- Supports active/active failover for reduced hardware

# Lotus Notes Is Configurable To Meet User Requirements

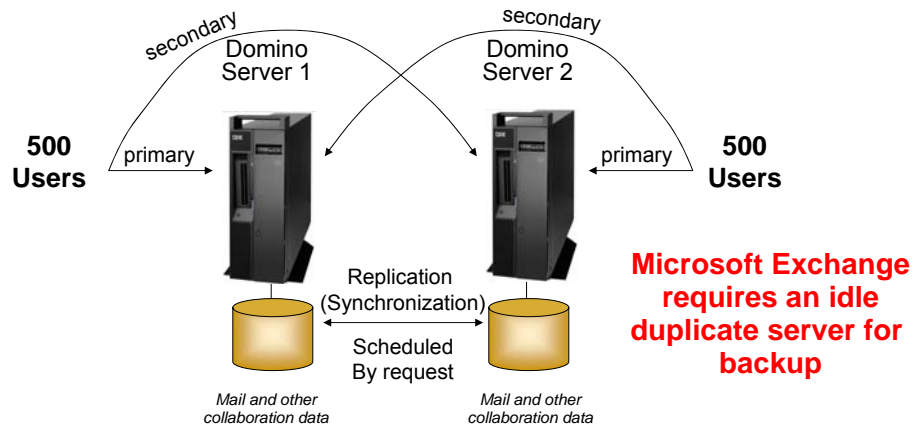


<sup>1</sup>Requires Lotus Quickr

<sup>2</sup>Requires Lotus Sametime Standard Edition license

## Domino Clustering For Failover

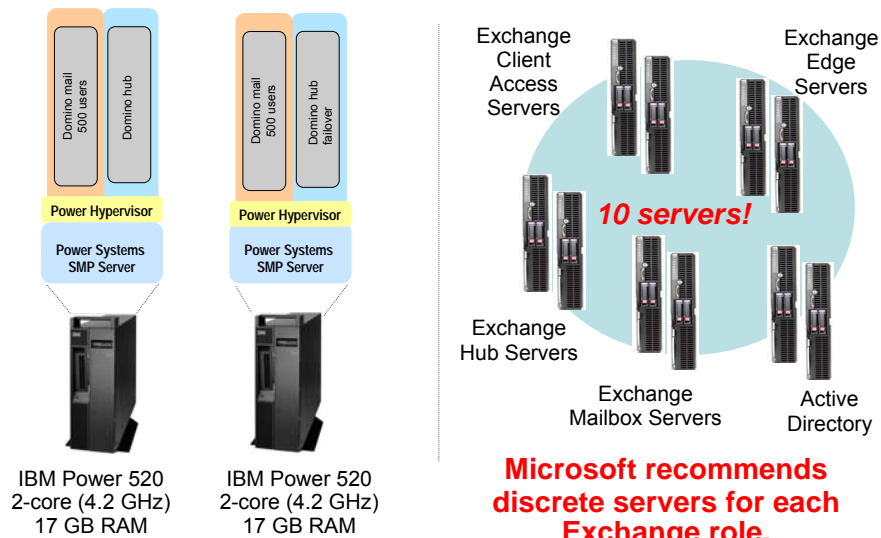
- Domino clusters share workload (not a cold standby)
- “Active/active” failover



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7

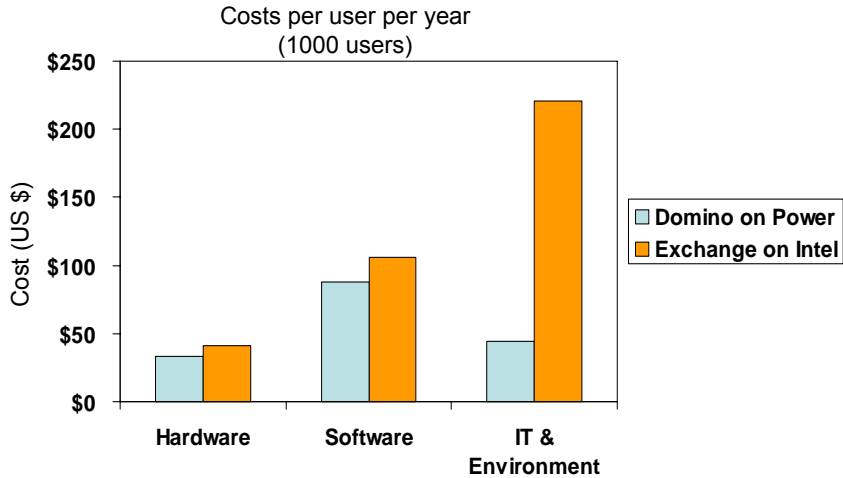
## 1,000 Users Supported On 2 IBM Power Systems



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8

## Domino On Power Systems Costs Less Than Exchange On Intel



Source: [http://h71019.www7.hp.com/ActiveAnswers/us/en/sizers/mic\\_exch\\_serv\\_sizer\\_ms\\_exch.html](http://h71019.www7.hp.com/ActiveAnswers/us/en/sizers/mic_exch_serv_sizer_ms_exch.html)  
[https://www-304.ibm.com/jct09002c/partnerworld/wps/sizing/sizingguide/view.jsp?guide\\_id=sgg59020125181106002/30](https://www-304.ibm.com/jct09002c/partnerworld/wps/sizing/sizingguide/view.jsp?guide_id=sgg59020125181106002/30)

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9

## Domino On Power Systems Has Lower Total Cost Of Ownership

### Three Year TCO Comparison (1,000 Users)

	Lotus Notes and Domino	Microsoft Outlook and Exchange
<b>Server Hardware</b>	\$ 97,978 2 IBM Power 520	\$ 120,583 10 Intel x86 Servers
<b>Server Software</b>	\$ 29,353 Domino Enterprise Server	\$ 45,792 Exchange 2007 Enterprise Edition
<b>System Administration, Power, Floor Space*</b>	\$ 132,462	\$ 662,310
<b>Total Server Costs</b>	<b>\$ 259,793</b>	<b>\$ 828,685</b>
<b>Client Costs</b>	\$ 235,500 Lotus Notes	\$ 271,000 Microsoft Outlook, Exchange Standard Ed. Client Access License, Exchange Enterprise Ed. Client Access License
<b>Total</b>	<b>\$ 495,293</b>	<b>\$ 1,099,685</b>
<b>Total per user per year</b>	<b>\$ 165</b>	<b>\$ 367</b>

\* Source IBM internal consolidation project.

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10

# Domino Is Designed To Leverage Power Systems Scalability



IBM  
Collaboration

**Result: Lower  
cost per user**



IBM Power 520



**IBM Collaboration takes  
advantage of Power Systems  
flexibility and scalability**



Microsoft  
Collaboration

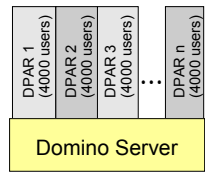


HP Blade servers



**Microsoft Collaboration only  
runs on Windows and x86  
architecture**

# Domino Partitions Support More Users On A Single Power System Server



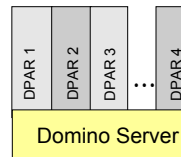
**Support more users on a  
single server**



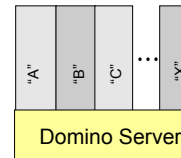
**Additional  
Flexibility**



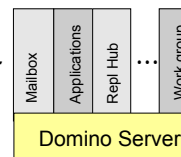
**If one Domino  
partition (DPAR)  
shuts down, the  
others will  
continue to  
operate**



**Support more  
than one  
domain on a  
single server**



**Isolate certain  
functions on the  
network for better  
performance,  
availability**



# Virtualization Of Email Can Improve System Utilization

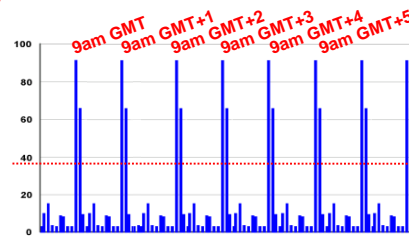
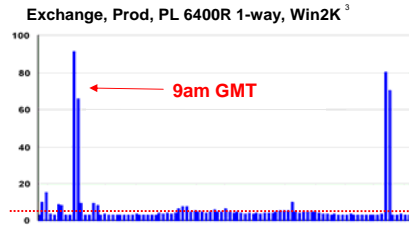
- Typical scenario:
  - Case 1 – No virtualization of mailbox servers
    - Result – Heavy load at isolated times; average utilization less than 5%

*Exchange supports virtualization, but limitations exist for mailbox servers.<sup>1</sup>  
Burton Group recommends mailbox servers be placed on separate physical hardware.<sup>2</sup>*

- Case 2 – Virtualized mailbox servers
  - Result – Utilization rates can increase dramatically

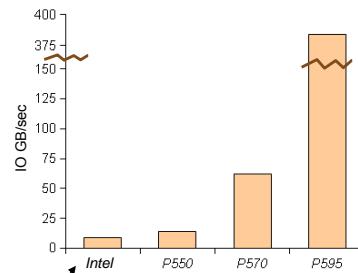
*Domino takes full advantage of Power Systems virtualization for greater system utilization.*

<sup>1</sup> <http://technet.microsoft.com/en-us/library/cc794548.aspx>  
<sup>2</sup> [http://ccsblog.burtongroup.com/collaboration\\_and\\_content/2008/08/virtualizing-ex.html](http://ccsblog.burtongroup.com/collaboration_and_content/2008/08/virtualizing-ex.html)  
<sup>3</sup> Source: IBM CPO, Case Study



# Mail Servers Benefit From The High I/O Bandwidth Of Power Systems

- Email is an I/O-intensive enterprise application
  - ▶ More than database but less than file server
- Power Systems have higher I/O bandwidth than Intel
  - ▶ Running email on Power Systems is more efficient

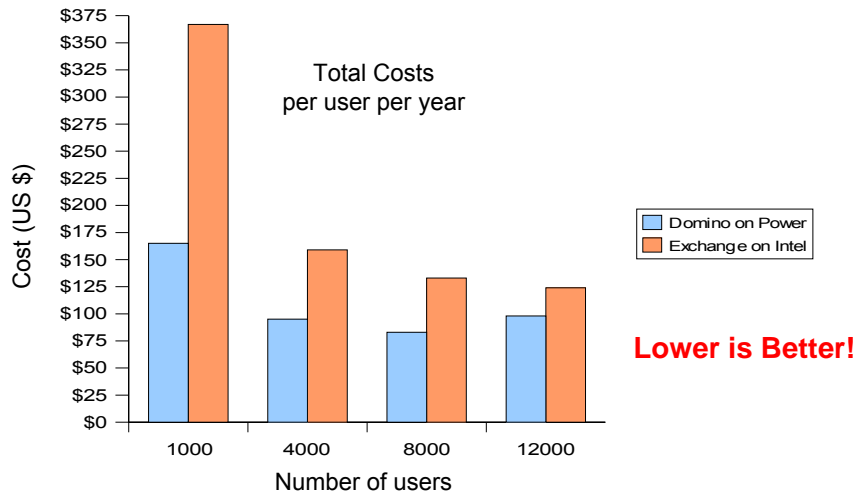


**Exchange is limited to running on Intel only.**

**Domino supports both Power Systems and Intel servers.**

Source: IBM, HP, Microsoft

## Domino On Power Also Costs Less Than Exchange On Intel For Larger Populations



Source: [http://h71019.www7.hp.com/ActiveAnswers/us/en/sizers/mic\\_exch\\_serv\\_sizer\\_ms\\_exch.html](http://h71019.www7.hp.com/ActiveAnswers/us/en/sizers/mic_exch_serv_sizer_ms_exch.html)  
[https://www-304.ibm.com/jc109002c/partnerworld/wps/sizing/sizingguide/view.jsp?guide\\_id=sqg5902012518110600230](https://www-304.ibm.com/jc109002c/partnerworld/wps/sizing/sizingguide/view.jsp?guide_id=sqg5902012518110600230)

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15

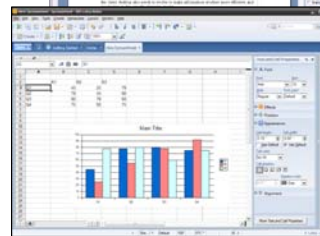
## Lotus Symphony – A Free Alternative To Microsoft Office

- Packaged set of editing tools included with Lotus Notes
  - ▶ Also available as standalone product
- Eclipse- and Java-based
- Runs on Windows, Linux, Mac
- Natively supports the OpenDocument Format (ODF) standard
  - ▶ Supports Office 97, 2000, XP, 2003, 2007 (v1.3)
- Includes most common editing features to satisfy majority of business users

Presentation Editor



Document Editor



Spreadsheet Editor

**Microsoft Office 2007 = \$338/user\***

\* Open pricing, license only

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16



## Lotus Sametime Removes Latency And Accelerates Team Reaction Time

- Instant messaging supports team interaction
  - ▶ Geographically dispersed
- Unified communications enhances with audio, video and telephony
- Extensible, secure and scalable for the enterprise
- Open standards based
  - ▶ Eclipse, Java, SIP

**Microsoft solution has limited extensibility, promotes 'rip & replace', and costs more.**



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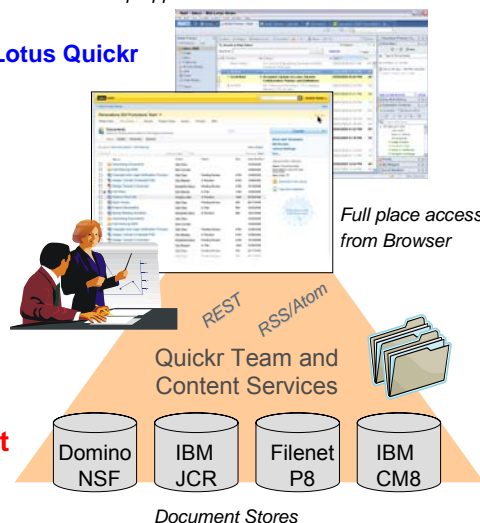
1 Available mid year 2009 17

## Lotus Quickr Gives Teams A Place To Work

- Share and manage team documents in Quickr team places
- Teams collaborate using documents, lists, calendars, forums, blogs, and wikis
- Standards-based
  - Incorporates REST APIs and RSS/ATOM services
- Scalable for the enterprise

Seamless document access from common desktop applications

Lotus Quickr



**Microsoft Windows SharePoint Services designed for departments only**

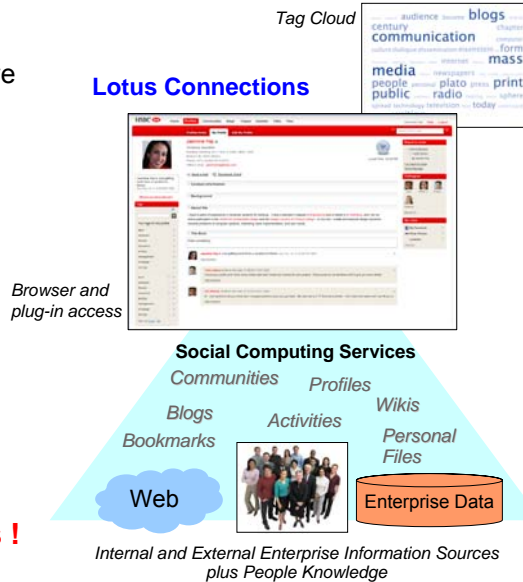
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18

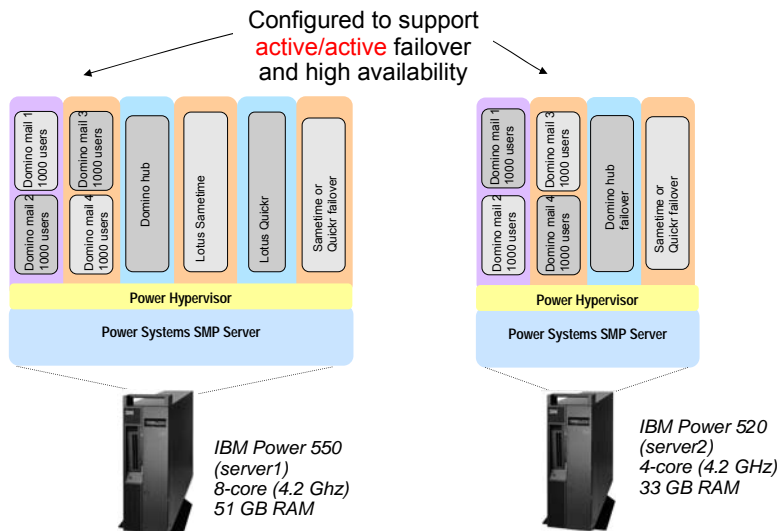
# Lotus Connections Pushes Collaboration To The Next Level

- Enterprise social software to collaborate in a more effective way
  - ▶ Collaborate with the right people at the right time
- Discover expertise in the organization
- Leverage employee knowledge for the task at hand
  - ▶ Tagged data
  - ▶ Wikis, blogs, bookmarks, etc.

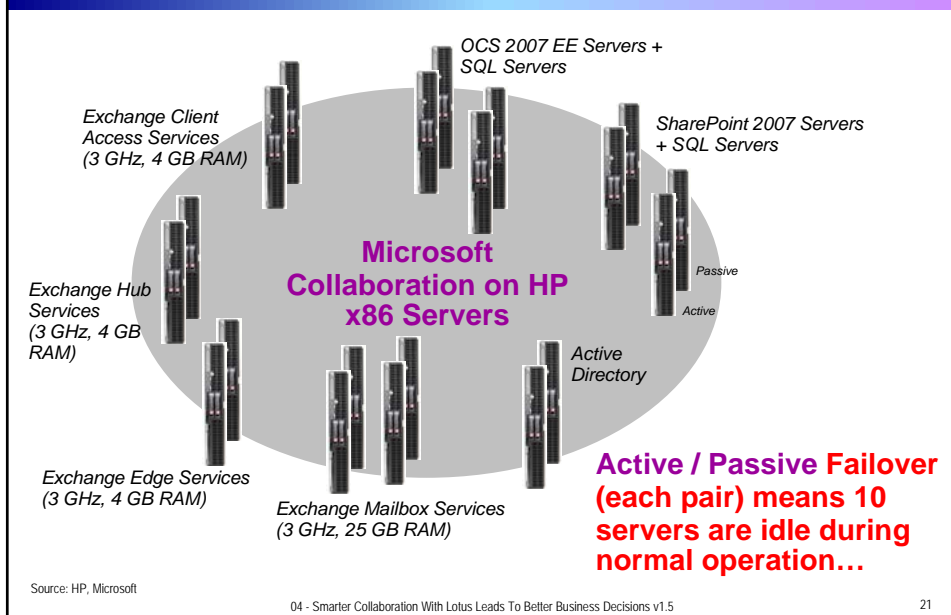
**Microsoft doesn't have this !**



# Two Entry-level Power Systems Easily Support 8000 IBM Collaboration Users



## Microsoft Needs 20 Servers To Support The Same Number Of Users



## Lotus Collaboration On IBM Power Systems Is A Lower Cost Alternative For The Data Center

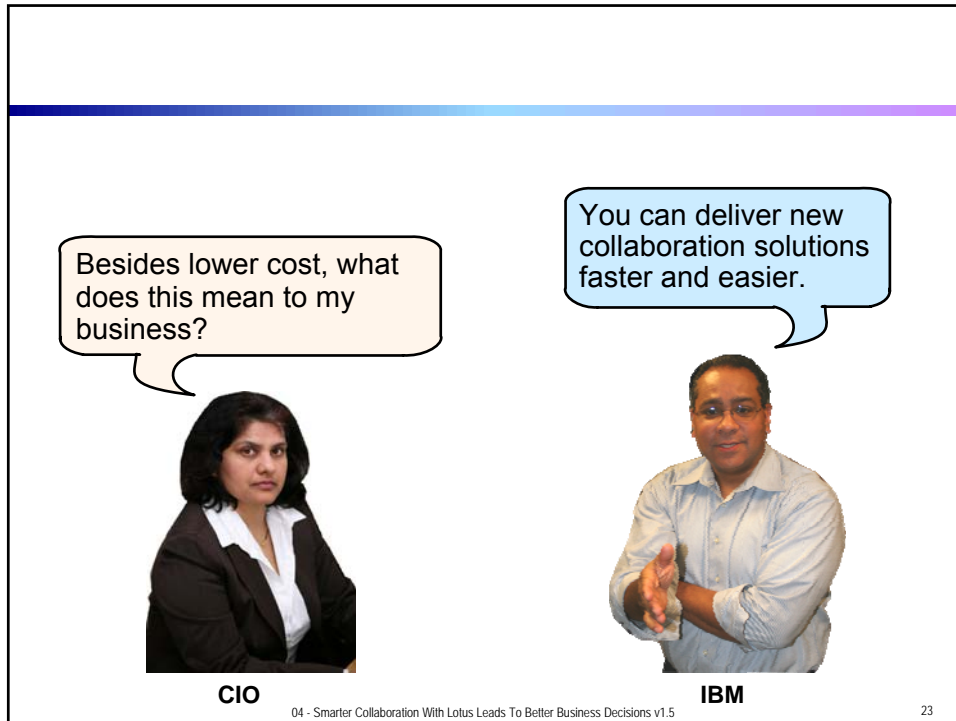
### Three Year TCO Comparison (8,000 Users)

	Lotus Domino + Lotus Sametime + Lotus Quickr	Microsoft Exchange + Office Communications Server (OCS) + SharePoint Server
<b>Server Hardware</b>	\$ 413,128 1 IBM Power 550 1 IBM Power 520	\$ 562,512 20 Intel x86 Servers
<b>Server Software</b>	\$ 53,384 Domino Enterprise Server	\$ 75,522 Exchange 2007 Enterprise Edition Office Communications Server EE Office SharePoint Server 2007SE SQL Server 2005 SE
<b>System Administration, Power, Floor Space*</b>	\$ 132,462	\$ 1,324,620
<b>Total Server Costs</b>	<b>\$ 598,974</b>	<b>\$ 1,962,654</b>
<b>Client Costs</b>	\$ 3,154,560 Notes, Symphony, Sametime Advanced, Quickr	\$ 4,680,000 Office, Communicator, Exchange Standard + Ent CAL, OCS Std + Ent CAL, MOSS Std CAL
<b>Total</b>	<b>\$ 3,753,534</b>	<b>\$ 6,642,654</b>
<b>Total per user per year</b>	<b>\$ 156</b>	<b>\$ 277</b>

\* Source IBM internal consolidation project.

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22



Besides lower cost, what does this mean to my business?

You can deliver new collaboration solutions faster and easier.

**CIO**

**IBM**

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## Service Oriented Finance Plans A New Product For It's Customers

We are running a beta program for a new product.

Our customers and our planners need to collaborate on this.

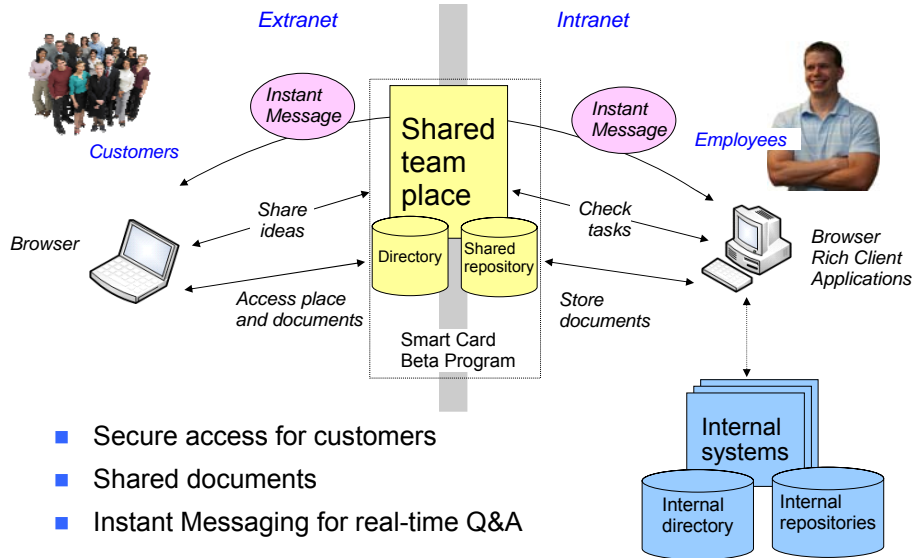


**Service Oriented Finance Marketing**

- Requirements
  - ▶ Employees will deliver update notices, documentation and gather suggestions and feedback
  - ▶ Customers will provide feedback and suggestions, and discuss the product with other participants
- Challenges
  - ▶ Documents must be stored and managed centrally and accessible by all
  - ▶ Instant communication needed for timely discussions
  - ▶ Cannot compromise security of internal systems
  - ▶ Costs for new infrastructure and software must be minimized

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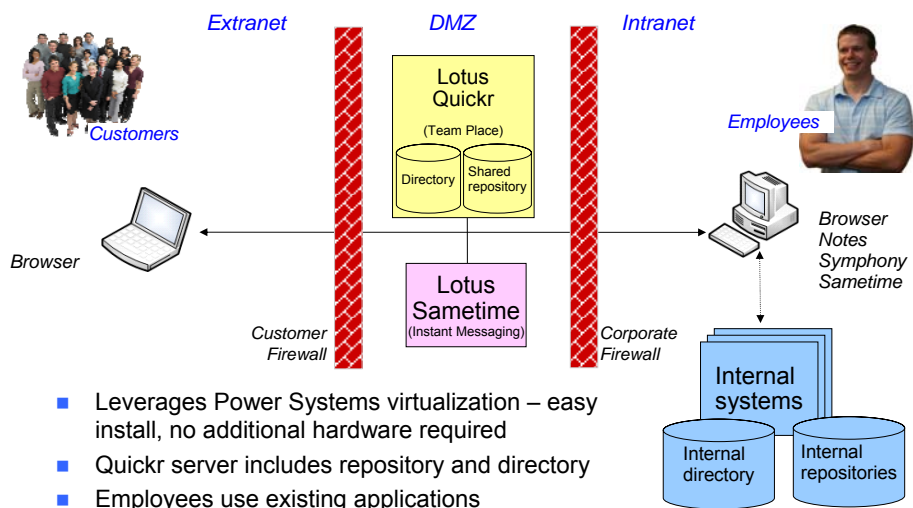
## Demo: Using The Beta Program Team Place



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25

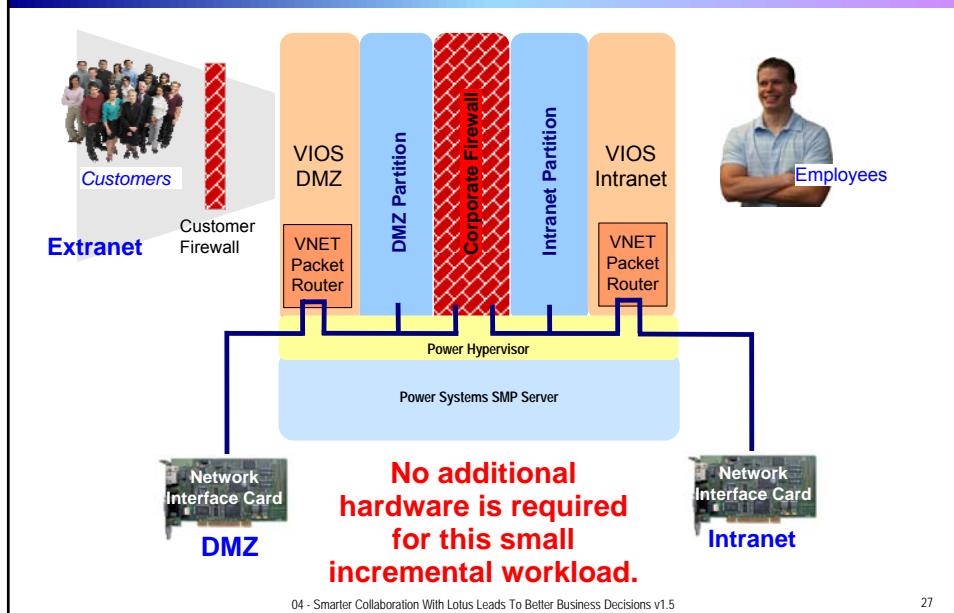
## Creating The Team Place With Lotus Quickr And Sametime Is Straightforward



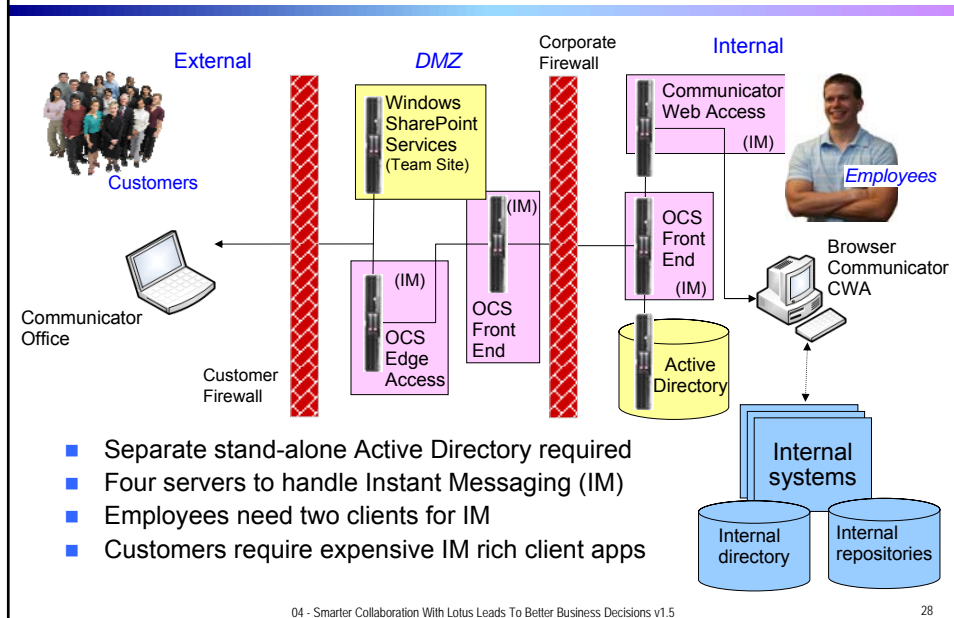
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26

## Leverage Power Systems Partitions To Quickly Deploy



## A Microsoft Configuration Would Require At Least 6 Additional x86 Servers



## Connect To Customers Faster And Easier Using Lotus Collaboration And Power Systems




- IBM servers installed on existing Power Systems machines
  - ▶ Microsoft required **6 additional servers**
- Easy and straightforward installation of 3 simple discrete IBM software packages
  - ▶ Microsoft required **3 times more software** installations and took twice as long to complete
- With IBM, employees used existing client software to communicate with customers
  - ▶ With Microsoft, **employees needed separate application** to communicate with customers
- With IBM, customers have quick and seamless access via browser
  - ▶ With Microsoft, **customers required expensive applications** to access site and communicate with employees

Source: IBM Internal Study

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29

## How Does IBM Smart Collaboration Compare?

Capability			
Costs less	Yes	No Solution	No
Easy to add new collaboration solution	Yes	No Solution	No
Reliability of Power Systems hardware	Yes	No Solution	No
Enterprise social software	Yes	No Solution	No

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30

## Metropolitan Life Insurance Simplified Their IT Infrastructure With Domino And Power Systems

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

