

WebSphere / Portal for System z – A Logical Path into SOA

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Our IBM System z[™] Strategy: Bringing People Together

Objectives:

- Marketplace Trends
 - ▶ SOA, technology and work environment convergence
- IBM's Workplace Strategy for System z
- Customer successes





Global economic and business issues are driving intense business pressures

IBM Global CEO Study 2006

Global market opportunities & threats

Nearly all companies now require some level of global business coordination and operations; "Designed in the US, Made in China, Supported in India"

Competing business models

The landscape in most industries is constantly changing; 83% of CEOs expect a competitor's change in business model will disrupt their industry

Commoditization pressure & new competition

Number of competitors up; revenue per customer down; the era of "good enough" products and services

Adjacent market opportunities & threats

Product segments constantly blur; 56% of mobile phone users rely on previously "non-phone" features such as camera, music, calendar and messaging

Global volatility & disruption

Raw material & energy price spikes, terrorism, political breakdowns or new regulations continually disrupt *business* operations





Innovation that Matters To CEOs

Top Innovation Priorities:

- Extend the ability to collaborate inside & outside
- Innovate business models & processes
- Leverage information for business optimization

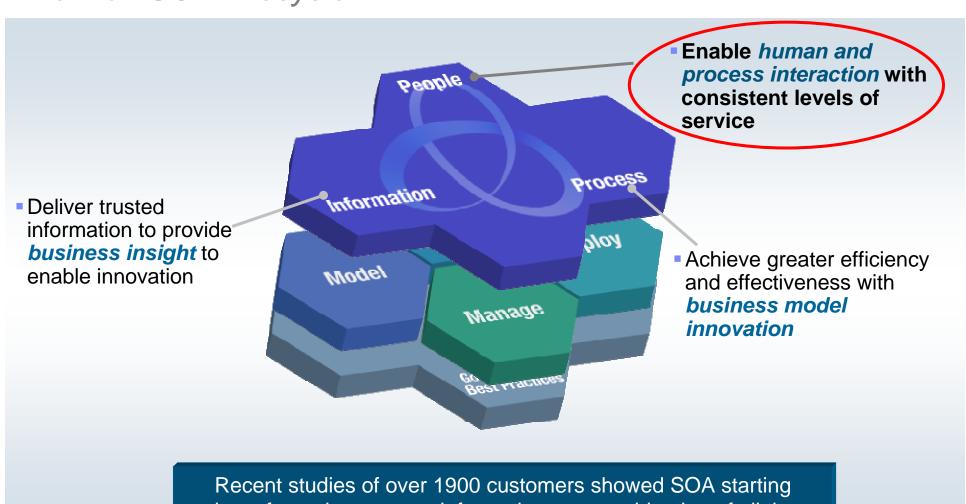


Innovation is all about change. SOA can help make it easier to change.





IBM's View of SOA: Business Centric Objectives Built on SOA Lifecycle

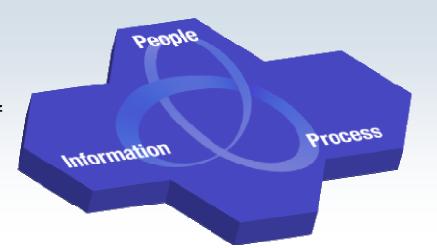


points of people, process, information or a combination of all three



People Are the Fuel of Innovation Marketplace Trends

- Explosive Connections
 - 1 Billion Internet Users¹
- Employees are the main source of organizational innovation² and differentiation
- Channel Partners and Customers factor prominently in innovation²



A Flexible and Responsive Environment for People to come together to drive Innovation, Productivity and Results is a Top Business Imperative

System z as the platform for today's new applications & SOA

1) http://www.internetworldstats.com/stats.htm

2) IBM Institute for Business Value, CEO Study 2006



Business questions



How do I Improve organizational effectiveness?



How do I improve workforce productivity?



How do I do more... with the resources I have?



How do I promote creativity and innovation in my organization?







Future productivity will largely come from the way people innovate, the efficiency with which they can translate innovation into value and how effectively people can work together to make timely well informed decisions.

IBM Lotus Software

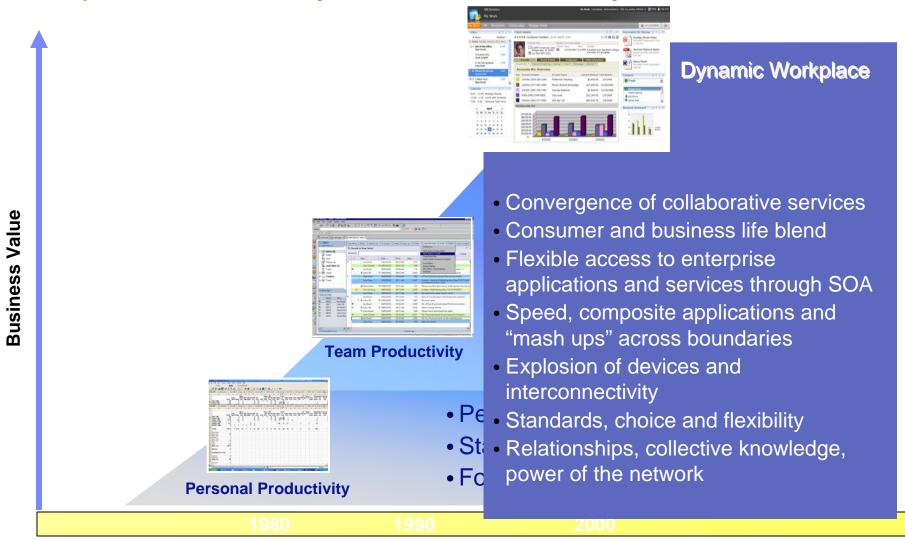








People Productivity Evolution with System z







In the front-end of computing, we see technology convergence in the marketplace and the real value of System z

Portal framework Information Retrieval

Process Management

Content & Document

Management

Community

Application servers

Open & Integrated SOA Infrastructure

Expertise location & management

Collaboration

Multi-channel access

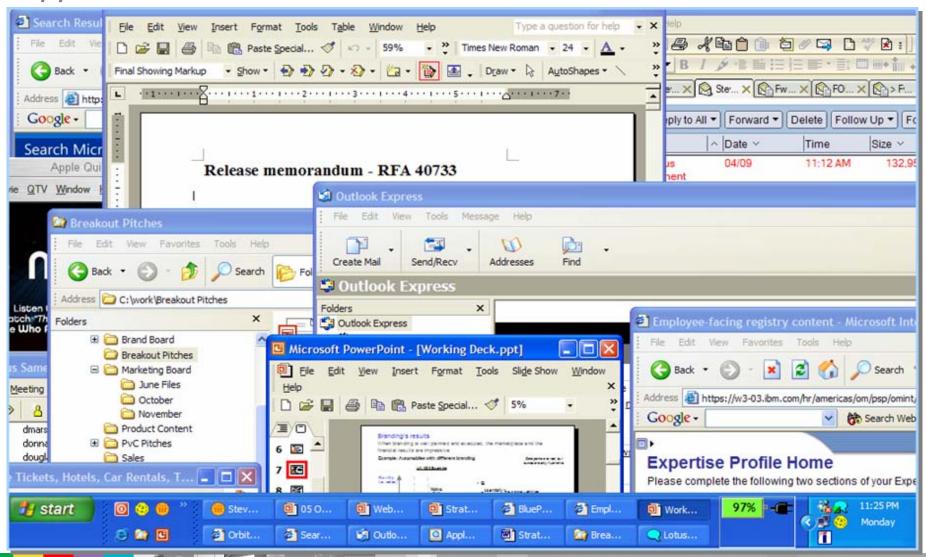
Learning

User Process Integration

Data storage

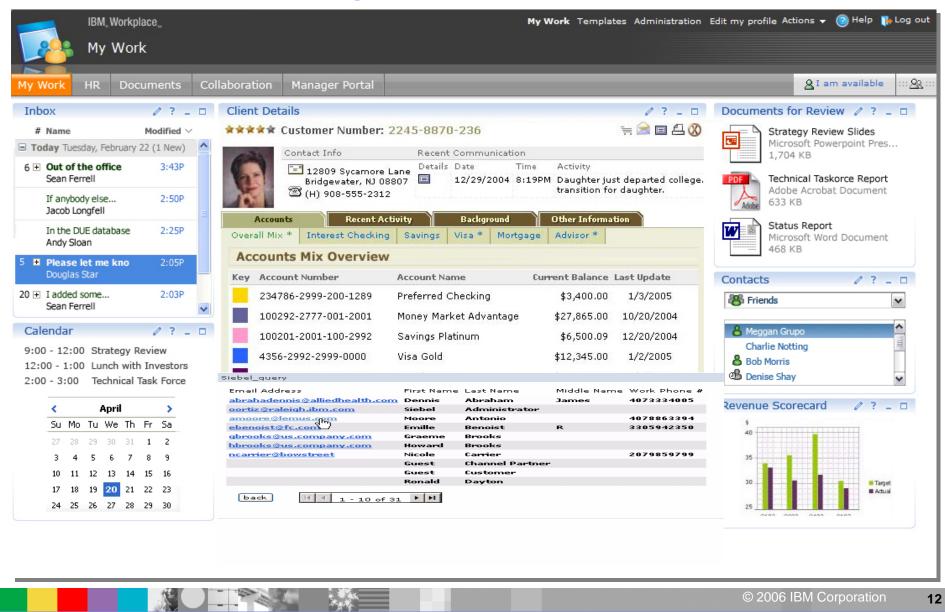


Today, many people work like this... Applications and information are delivered in silos





...but desire an integrated work environment





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The Workplace vision



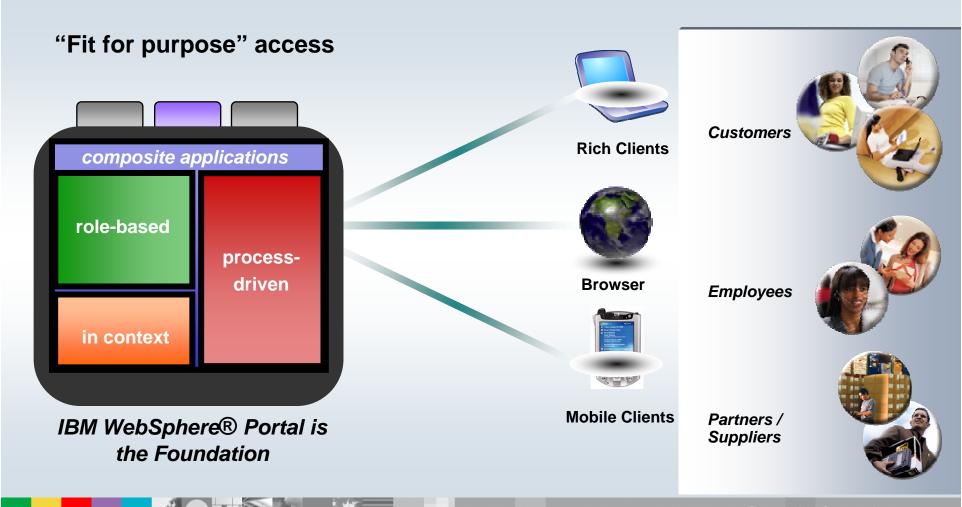
- Role Based
- Secure
- Single Sign On
- Content and process integration
- Context sensitive
- Leverages Forms



- Self Service
- Easy to deploy
- Cost effective
- Simple Navigation
- Rapid application integration



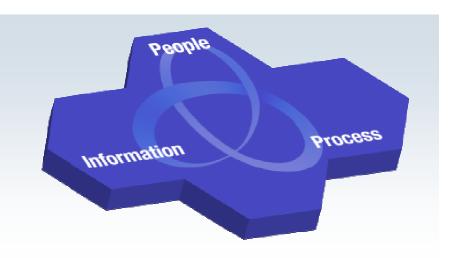
...Dynamically Delivered Based on Choice, Openness, Flexibility



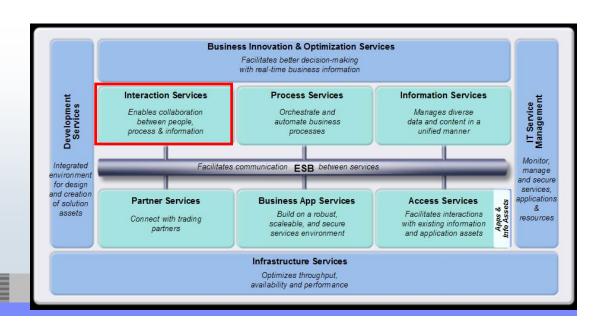


The Dynamic Workplace is the front end to flexibility and business agility driven by SOA

Integrating people, processes and information within the context of your business



- Composite applications and front-end integration
- Communications and collaboration services
- Open and flexible access methods





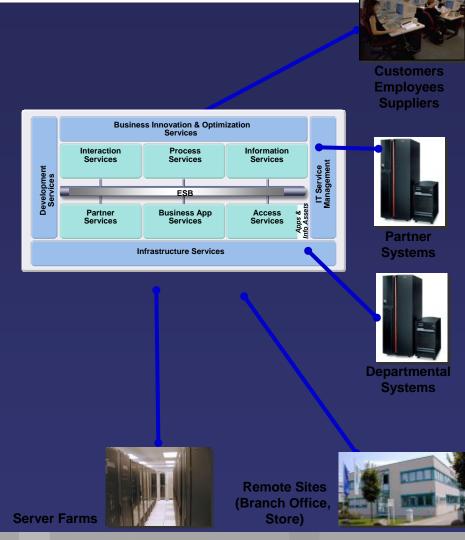
The mainframe as a platform for people integration Can deliver essential SOA qualities

Architecturally compatible:

- SOA Reference Architecture
- Architectural services
- Communications and integration
- Process control
- Reuse of core assets
- Helps address industry standards

Operationally superior:

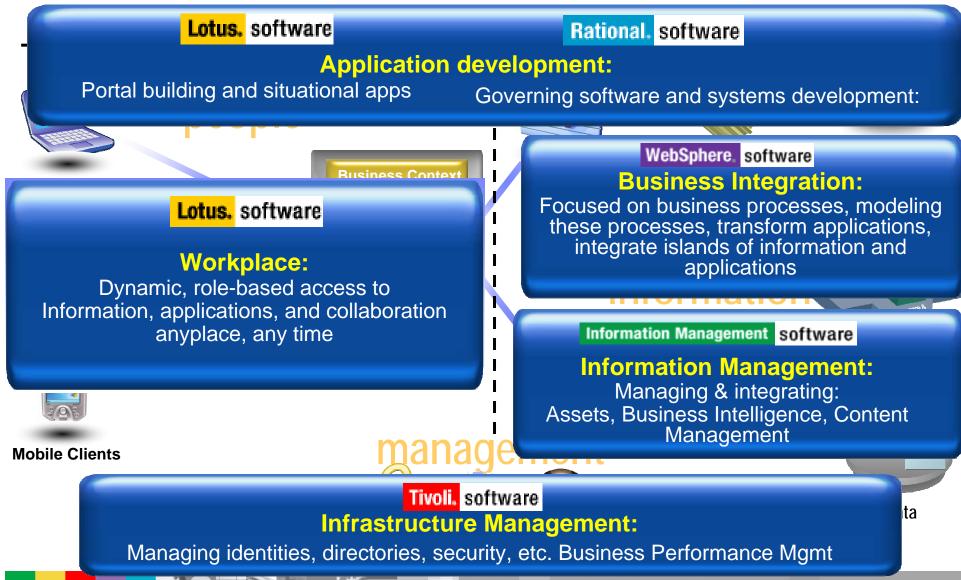
- End-to-end security-rich features in the enterprise
- Designed for 24/7 availability
- Massive scalability
- Automated recoverability features
- Centralized operations capabilities







The Workplace as part of a bigger picture





IBM Workplace Strategy for System z

Delivering customers the IBM Workplace vision



IBM Lotus® Notes® & Domino™ on System z

Market leading enterprise messaging & collaboration infrastructure

- 60K customer sites
- >125M licenses
- System z support since 1997





IBM WebSphere Portlet Factory Version 6.0 on System z

 Rapidly create and deploy SOA services through portlets





IBM WebSphere Portal Version 6.0 on System z

Market leading enterprise portal platform

- 4,000+ Customers
- System z support since 2003





Caisse Nationale d'Allocations Familiales

The Challenge:

French national organization providing assistance to >11 million families had to simplify info access; standardize quality / accuracy of fees and allowances; and handle demands quickly to speed payments and lower costs.

The Solution:

WebSphere Portal & Lotus Domino on IBM z/OS® provides the software to consolidate services & web sites for Service Recipients, Partners & Employees; improve the user interface; provide personalized content based on role and improve the efficiency of web content management.

On Demand Business Benefits:

- z/OS platform chosen for robustness / reliability Anticipates:
- Improved communications / relationships with Recipients and Partners
- Easier access to apps for Employees
- Reduced processing time, workload and costs
- More rapid payments for families in need





Software	 WebSphere Portal Enable for z/OS V5.1.0.2 IBM WebSphere Application Server for z/OS V5.10 Lotus Domino for z/OS CTG V5 IBM DB2® for z/OS V7.1
Hardware	 IBM eServer™ zSeries® 990 servers (2084-306) leveraging Parallel Sysplex technology z/OS V1.7





RENFE

The Challenge:

To integrate information from across the company consistently while lowering costs and improving scalability.

The Solution:

IBM WebSphere Portal running under SUSE Linux Enterprise server on IBM eServer zSeries provided a single, consistent source of corporate information

On Demand Business Benefits:

- Faster access to information on a unified high speed, highly secure platform
- Reduced operational costs through IT consolidation
- Ability to create new virtualized portals rapidly for future growth without the expense of new hardware





"As you can imagine, it was difficult and time-consuming to manage the 18 different systems that used to provide information to employees. Now that we have consolidated the intranet into two parts, on Linux on the z990, it is very easy to manage and offers much faster access to important information."."

-- Carlos Varela, Director of IT Systems for Renfe Operadora





IBM WebSphere Portal Version 6.0 for System z
Meeting the New Requirements for the Front-End of SOA

- Helping Organizations to Rapidly Respond to Change
 - Integrates with IBM WebSphere Portlet Factory
 - AJAX support to deliver compelling user experience
- Easy-To-Use Composite Application Templates
 - Flexibility to easily customize interfaces
 - Portlet Palette & Enhanced Portlets
- Helping Increase Organizational Productivity and Operational Efficiency
 - ▶ Enhanced Web Content Management
 - Leverages IBM Workplace Forms (e-forms) capabilities
 - Fly Out Menus & Page navigation
 - Drag & Drop support
 - Enhanced Search
 - Native MS Windows & MS Office Integration











New user experience improves productivity

Home

Workcenter

Career and Life

Getting Started

Getting Started

Simple tips, product demos, and essential links to help you start using and customizing your site today!



Demo Central

Get up to speed quickly with these demos and



Lotus Domino 8 Product Tour



Lotus Domino 8 Product Tour

More Demos

Support

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Slide out palette lets you add new portlets

product tours.





Add and Rearrange Page Content

Click the + icon to access the palette from the page bar to add content to the page. You can drag and drop content to rearrange the page layout.



To Create a New Page

Hover over the page bar, click on the context arrow, and select new page. You can create a new page from scratch or use the current page as a starting point,



Need additional help?

Click on the ? icon in the page bar to access the contextual help flyout, Click on the icon in the banner to access main menu and navigate to the IBM Infocenter.



Use the Main Menu to move around

New and Updated Themes and Skins.



Hover over portlet titles to access the contextual menu. You can also edit content inline or use the content management tool to customize your content.



Find Everything...Fast!

Click on the search icon in the page bar to open the search field. Use the drop down menu to select the type of search you want to perform. From the results page, you can navigate to an important document, team space, e-mail, etc. or close the page and return to what you were working on before.



to that page



Search Mail

Help & Support 7

Q X

page bar a Search Help

Go to the **Contextual Help** depth prod

Also, try IB articles abo Content Ma

Customize this page

- Hover over the page name in the page bar and selct edit page from the drop down menu
- Once in edit mode, you can edit the contents of the page inline using the editing tools and choose to apply the changes to the current page or a new page

Create a new page

 Hover over the page bar and selct new page form the drop down menu



Simply grab a portlet on the page or from the slide out palette and drag to the desired location on the page

IMAGES AND SCREENSHOTS ARE SUBJECT TO CHANGE



WebSphere Portal V6 integrated with Process Server Integrate Process and Flow on System z



Process
Orchestrating
within Portal

Form Driven Workflows



Portlet to Portlet Interaction

Ad-Hoc Person to Person Exception Handling and Problem Resolution

Dynamically Presented Based on Role & Security

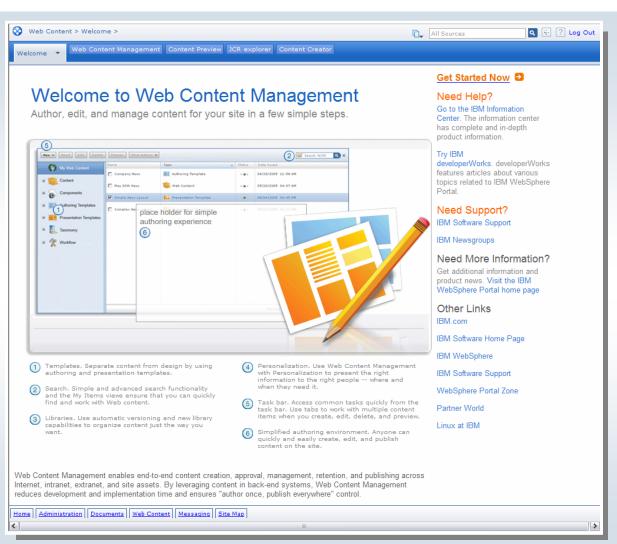




Easily deploy Content with IBM Workplace Web Content Management Version 6.0

Improved authoring usability:

- Welcome page to help new users get started
- Inline Editing for infrequent users
- User-friendly, simpler templates for entering content
- Full text, attribute and taxonomy search and searches within searches
- Simplified process for including personalization rules in content and layout
- New views allow users to find their content easily
- User interface can be customized easily to provide tailored experience







IBM WebSphere Portlet Factory V6 for z/OS and Linux on System z NEW!

- Accelerate: Portlet Factory allows for faster WebSphere Portal deployment, typically requiring lower-order development skills than other tools
- Respond: Help organizations large and small to create <u>dynamic</u> portal solutions, that are easy to modify as market conditions dictate
- Strengthen: Fortify the overall IBM SOA tooling advantage with the compelling value of Portlet Factory

Portlet Factory Tooling



- Rapid application development
- Service-oriented architecture (SOA)
- Integration extensions including Lotus Domino
- Profiling engine







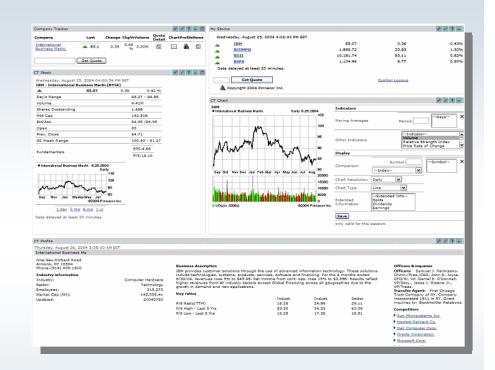




WebSphere Portal Version 6.0 as platform for *Approachable* Composite Applications



- Easily Build and deploy composite applications using portal services
 - Personalization, collaboration, search, orchestrated workflow,....
 - Portal framework provides aggregation and integration
- New Concepts:
 - Portlet Factory; Templates;
 Application Context; Membership/ Community; Application Roles
- Business Value
 - Reuse critical assets
 - Business flexibility since it is easier to make changes





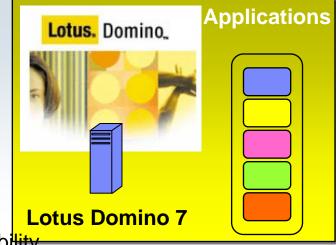
IBM Lotus Domino for System z Advantages since 1997...

Lotus Domino for System z on Linux

- Outstanding reliability
- Virtualization technology with IBM z/VM®
- Portable skill base
- Outstanding scalability

Lotus Domino for z/OS

- Superior RAS and FFDC at OS level improves serviceability
- Impressive Backup capacity
- Integration with z/OS & DB2: RACF, SMF, SSL, etc
- Extensive Debug tool set
- Automation can help reduce Lotus Domino administration costs
- Standard support includes delivery of hotfixes without waiting for the next maintenance release







LINDORFF

Lindorff Oy

The Challenge: Needed to build a single reliable, scalable and future-proof platform for current and future Web applications – enabling quick and easy delivery of information to customers & employees via the web with a high level of security

The Solution: Migrate to a single IBM System z mainframe using IBM WebSphere and IBM Lotus software for competitive advantage. Lotus Domino software is for both its e-mail system and to run intranet applications.

On Demand Business Benefits:

- Increased customer satisfaction through continuity, reliability and security features for real-time information
- Realized cost savings by upgrading platform and easy management of new infrastructure



"The results of the project, especially the performance and stability of the system, are better than I expected!"

> — Aarni Järvelä Executive Vice President, IT Lindorff Oy

Software

IBM z/OS operating system
IBM WebSphere Application Server
IBM WebSphere Host Access
Transformation Services
IBM Lotus Domino software



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IBM Internal Deployment

The Challenge:

To simplify the server and storage infrastructure for more than 400,000 IBM Lotus Notes users, to improve availability, performance and reduce costs.

The Solution:

Over the past several years, IBM has implemented Lotus Domino on z/OS as part of the consolidation & improvements of the server network. This continues in 2006 with Lotus Domino 7 for z/OS.

On Demand Business Benefits:

- More effective use of resources: human, IT and information
- Improved availability and manageability of the server network
- Able to implement new innovative solutions for users



"We continue to deliver cost and expense improvements, but now we're tackling a more complex agenda — focusing on growth and innovation as powerful ways to manage and measure our progress."

 Linda Sanford, IBM Senior Vice President, Enterprise On Demand Transformation and Information Technology

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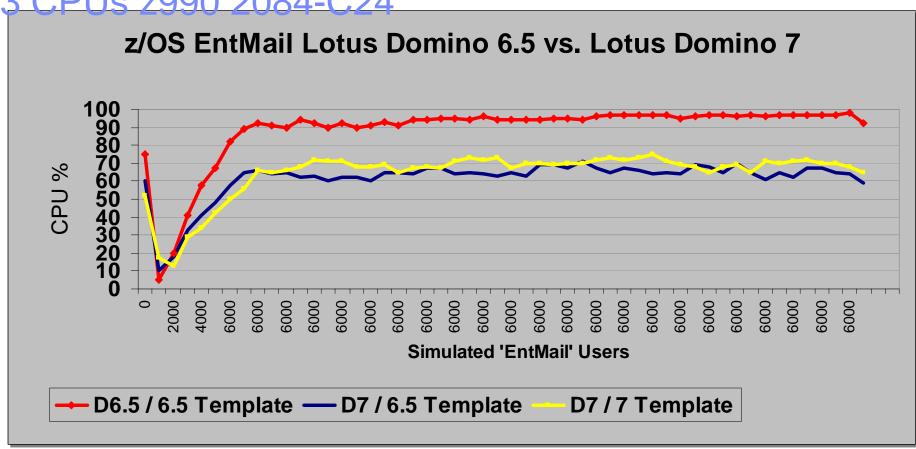
- Lotus Domino 6.5.4 and 7.0.2 for z/OS
- Lotus Notes 7 client
- RIM Blackberry offering, 25K IBM Lotus Domino Web Access deployment planned for 2006

Hardware

IBM z900, z990 and z890s models



CPU Savings with EntMail Workload on z/OS 1.5 on 3 CPUs 7990 2084-C24

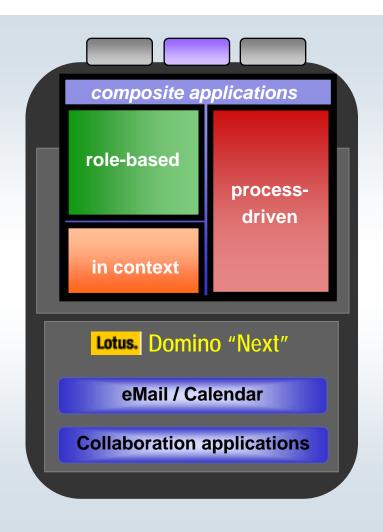


IBM's Enterprise Mail workload Benchmark Report dated Nov 29, 2005: http://www-128.ibm.com/developerworks/lotus/library/domino7-enterprise-performance/





Extending Lotus Notes and Domino with WebSphere Portal



Domino + Portal Integration

Integrated installation

Integrated administration

Directory integration

Composite application support

Server-managed client technology





IBM Lotus Domino for System z

"Hannover"

The next generation of Notes

- Expansion of capabilities and integration
- Adapting technologies to new uses
- Server-managed technology that can be tailored for your business

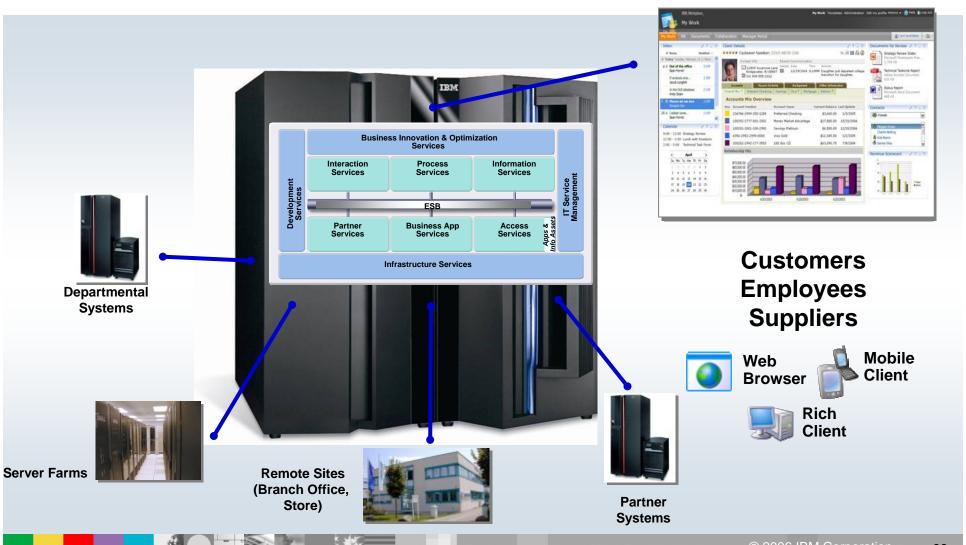
Extends the unique qualities of the Notes collaboration platform

- •Mail, Calendar, and Contacts
- Composite Applications
- Productivity Tools (Word processing, spreadsheets, and presentations)
- Activity Centric Computing
- Java/Eclipse development environment





Bringing People & Processes together on System z: Open, Integrated, Security-Rich, Scalable, SOA





Summary



People & high performance work environments drive innovation and productivity for businesses



2

Portals represent the front-end of SOA and an "easy-first-step" SOA project with the opportunity for rapid ROI resulting in people productivity and innovation



3

System z platform provides the security-rich, reliable & manageable environment for high volume interaction between people, process, & information



4

WebSphere Portal and Portlet Factory Version 6.0 together with Lotus Domino on z/OS and zLinux extends workplace innovation for System z users















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All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

