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SHARE 98 Session 8614
Domino/Notes Project Keynote:
Lotus Client Overview



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IBM Software Group



Agenda

- Who is this "Alan" person?
- Lotus Overview
 - ► Where does Lotus fit within IBM?
 - ► Truth about the Market
 - ► Vision and Strategy
- Client Roadmap
 - ► Lotus Notes Client
 - ► Domino Web Mail
 - ► iNotes Family (Web Access and Outlook)
 - ► Domino Everyplace Mobile Family
- From IBM Research, Reinventing Email
- From IBM Alphaworks Notes Buddy
- Summary Things to walk away remembering

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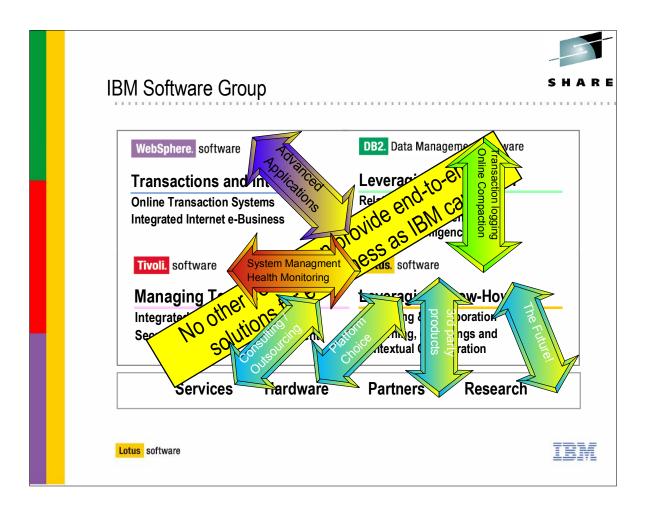




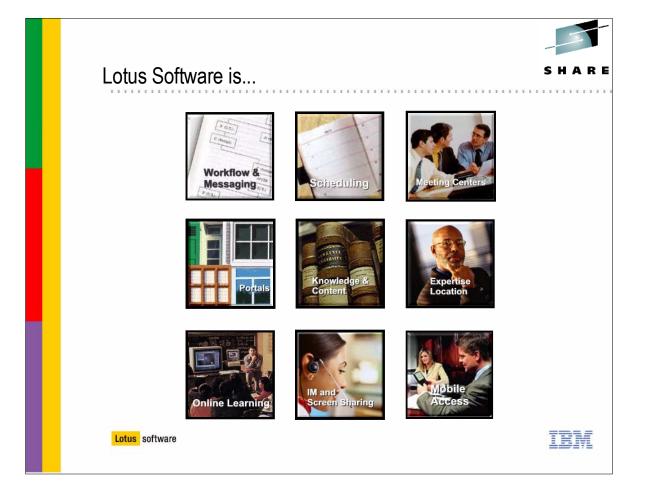
- BaSc, Mechanical Engineering, University of Toronto
- Began my "Blue Life" as a co-op student for IBM Canada in May 1993
 - ► Rolled out Notes 2.1a to 15,000 users in Canada
 - ► Moved to part of IBM's Global Notes Architecture (GNA) team
 - ► Moved to IBM Global Services as Domino Architect
- Moved to Lotus in March 2001 as "Minister of Communications"
 - ► I'm not a Product Manager, I'm not in Marketing, I'm not a Software Engineer!
- Lotus Liaison to International Notes Corporate Consortium (INCC)
- Work on Keynotes for trade shows such as DevCon & Lotusphere
- Executive Briefings
- When IBM lets me out ... I'm playing Ultimate Frisbee!



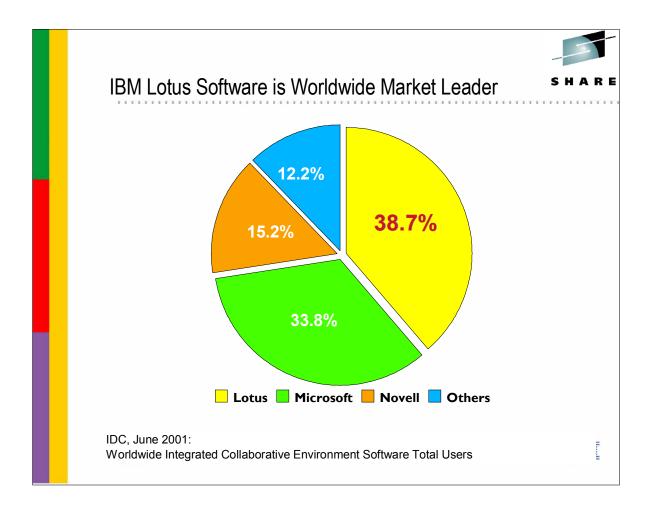
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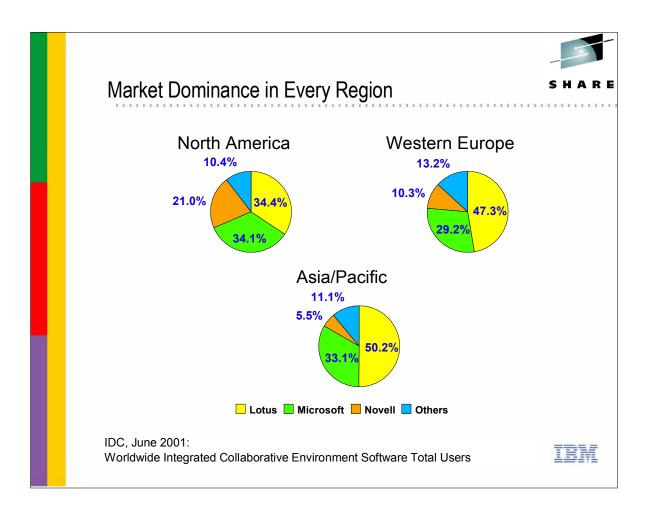
- Let's take a look at how well this fits within the larger IBM and IBM Software Group strategy. SWG has four primary brands: WebSphere, DB2, Tivoli and Lotus. As you can see in this graphic, each is responsible and resourced -- for a distinct area of the software market. WebSphere, which now includes MQ series, is focused on transforming businesses into e-business through integration of many systems. WebSphere Application Server (WAS) is the centerpiece here, as it is the J2EE server 'glue' that ties systems together. DB2 is IBM's relational database family, responsible for the data-intensive applications that underlie modern IT architectures, along with the business intelligence and insight that can be extracted from these massive data stores. Tivoli is focused on tools that manage and secure the disparate enterprise applications. And Lotus is focused, again, on the intersection of people and technology, and maximizing the value of the knowledge and collaboration that is human in nature. As a complete solutions provider, IBM also has the partners, services, hardware, and financing to pull it all together to meet customer needs.
- ► The important thing to remember here is that these parts all work together in concert, through teaming, technology sharing, integrated market planning and common sales teams. No part is any more important than another; all are required to deliver the IBM solutions value to the marketplace.



- This is the portfolio of collaboration capabilities delivered by Lotus today. Lotus provides solutions for a wide variety of forms of collaboration so organizations can distribute information and foster efficient communication among employees, customers, and partners in whatever way is best-suited to the environment, the culture, and to the business.
- ► IM and screen sharing One area that has already started showing growth, this is the ability to instantly reach a person for text chat or full audio/video. It also includes online meetings, application sharing and web 'cobrowsing'.
- ► Knowledge and content This is the accrued knowledge of people over time. These tools allow you to develop knowledge bases and content libraries, with full indexing and search capabilities.
- Meeting centers This enables teams to conduct meetings where the participants are geographically disbursed without travel.
- Portals This is a model that integrates multiple, disparate information sources for a specific purpose. Portals are important because they offer an optimized human:machine interface, and 'funnel' the information process into a human dimension.
- Online learning This is self-contained, professional courseware that can be consumed or conducted as appropriate, with full measurement and management tools.
- ► Scheduling This is the ability to organize meetings and coordinate calendars among multiple people, groups and things, across organizations and timezones.
- ► Workflow and Messaging This is the intersection of e-business and traditional business, where you can inject a human action into a process, especially to handle exceptions or deliver responsive customer service.
- ► Mobile access Any system that deals with people must have the flexibility to support mobile workers. This should support messaging and interaction, certainly, but also the specific applications and capabilities of your e-business.
- Expertise location As important as making people available in the e-business process, you must make the <u>right</u> people available. Expertise location is a methodology that quickly matches the people skills to the business situation.
- ► Today each one of these is a separate product, integrated through individual APIs.



- ► For the entire history of the market, IDC has reported Lotus as the market share leader. Microsoft has been able to bundle and tie licenses to increase their market share, but in corporate and government entities, Lotus is the worldwide leader.
- ► This is especially true in Europe and Asia where Lotus leads two to one over MS, according to IDC (see next chart)



► And when you look at it on a regional basis, Lotus has an even greater market leadership stronghold in regions outside of NA - over 47% in EMEA and over 50% in AP.



Lotus Today and Tomorrow...

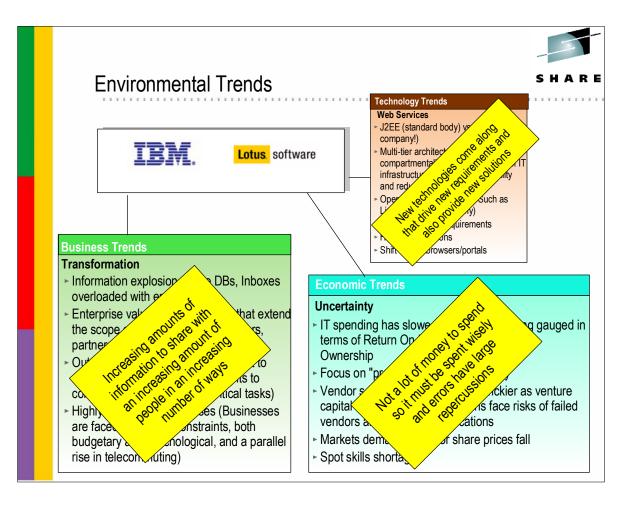
- Vision, Goals, and Strategy
 - ► New era in Collaboration where tools are exploited in new contexts
 - ► Evolving customer needs
 - ► Sustain market leadership
 - ► Build upon our leadership

Technical Evolution

- ► Principles that have fueled our innovation over the years and which will continue in the future
- ► Benefits for customers of increasing standardization of software to lower cost of ownership
- ► Technical roadmap to modularization

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Positioned for Continued Leadership

- ► All of these factors point toward a new era in collaboration... dubbed 'Contextual Collaboration' by analysts such as Meta and IDC.
- ► In reality, there are few vendors that have the broad array of technologies to satisfy these new demands.
- ▶ Only Lotus has a mature, evolved set of products in this space.

We expect the business-to-employee (B2E) market to be largely dominated by Lotus and Microsoft by 2004.

We believe Domino shops would be foolish to look elsewhere for their B2E and B2B mainstream next-generation collaboration requirements... but Exchange-centric organizations must examine several options.

META Group-- Collaboration: The Next Generation November 2001

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- Within the context of environmental trends, market evolution, and IBM's overall strategy, the Lotus technology strategy becomes clear. We are poised to continue our leadership of the collaboration market through a continued, managed evolution of our application products to a set of mix and match capabilities that are appropriate in a J2EE/multi-tier world. We will accomplish this by:
- Modularizing products into components that can be 'dropped in' to applications, in context and appropriately formed
- We'll support current customer investments via continued investment in the Lotus infrastructure elements that made our innovation possible in the first place
- At the same time, we'll invest heavily in J2EE and Web services support to make Lotus collaboration a first-class participant in the multi-tier architectures that are being rapidly adopted by our customers



- ► This slide shows the 'big picture' overview of how collaboration will evolve. This is our IBM intranet 'w3' in internal terms. As you can see, it's a personal portal, built on a standard multi-tier architecture. Yet there are several collaboration elements on this page: [click through] e-Meetings provide a list of customized links to online meetings that are of interest to the user; Calendar provides the user's personal schedule, as well as links to inbox, to-dos etc.; e-Learning contains personalized links to suggested courses and classes for the user; and Awareness provides access to a 'buddy list' and directory of people, with indications as to whether they're online and available for chat or instant meetings.
- ► Now, there's nothing revolutionary about any of these capabilities Lotus already delivers market-leading products in all these categories. What's new, and evolutionary, is that the capabilities are no longer presented as separate applications to the user, but contextually appropriate to the way the user works. In fact, there's nothing revolutionary about the underlying technology either; this can be (and is) done today, using state-of-the-art integration tools and techniques, against classic collaboration infrastructure products.
- ► But think for a second about this concept... If the way you look at collaboration is expanded beyond infrastructure applications to capabilities that are exposed in whatever context makes sense, then it becomes apparent that you're not really talking about applications at all you're talking about services. And now you begin to see where we are going.



Lotus Domino Server

No matter which client you choose, the foundation is the server!!!

- Enterprise Strength
 - ► Reliability to 99.999% (clustering, transaction logging)
 - ► Availability
 - ► Scalability
 - ► Consitant Architecture
- Flexibility
 - ► Multiplie Server Platforms
 - ► Choice of client
 - ► Full Mobility and offline

- Unmatched Security
 - ► Built in PKI
 - ► No virus attacks
 - ► End to end encryption
 - ► Local data protection
- True Collaboration
 - ► Sametime, Quickplace, etc...
 - ► Rapid Application Development
 - ► Open and Integratable
 - ► Evolving with the market

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Lotus Client Strategy

 Develop a product family that may be different user roles, responsibilities, and wo set to the right client.

■ Extend the collaboration of the collaboration of

■ Enhance the and deliver the enext generation of clients.

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Lotus Client Strategy

- Messaging as the foundation to 24x7 operations
- Dramatic growth for handheld computing & wireless data
- Increased focus on web-based services
- Continuing need for organizations to leverage advanced collaboration services to remain competitive
- Continuing use of Intranet and Extranet portals as a means to contextualize information
- Increased focus on cost and value

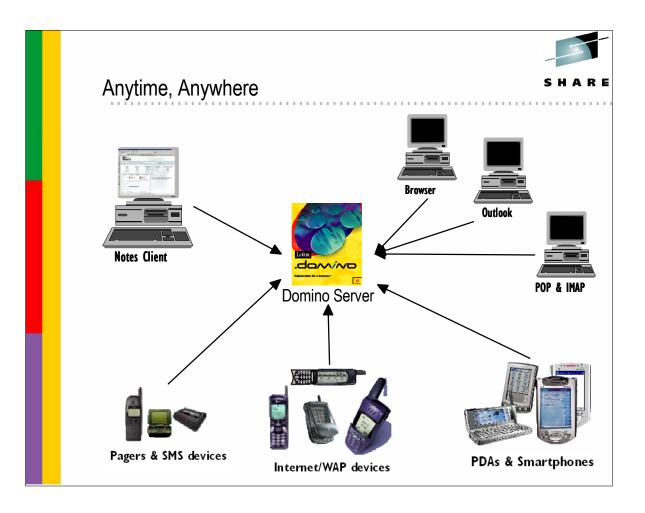
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Three Tier User Model

- Tier 1
 - ➤ Office and mobile user
 - ► Uses mail, tasks, contacts, C&S, and collaborative apps
 - ► Needs awareness and accessibility when mobile
 - ► High volume of messages that require action
- Tier 2
 - ► Office-based user, some of which are mobile at times
 - ► Uses mail, tasks, contacts, C&S, and some collaborative apps
 - ► Medium volume of messages, typically for info only
 - ► Messaging is a part-time job
- Tier 3
 - ► Office/non-Office worker (manufacturing, agent, retail, etc.)
 - ► Shares work space or computer with others
 - ► Uses mail and contacts only
 - ► Low volume of messages, primarily for info distribution

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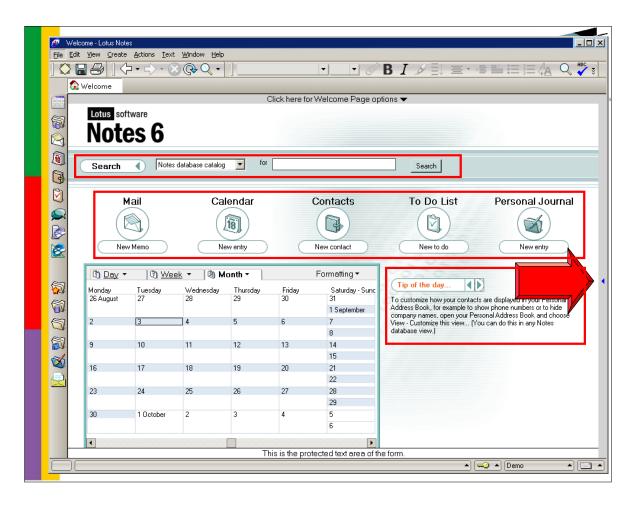
Notes 6 - Design for Innovation and Evolution

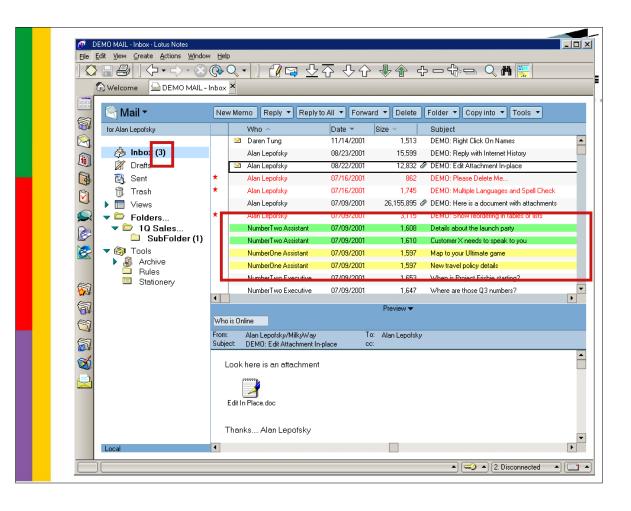
- Premier mail, calendar & scheduling, and task management client.
 - ► Highest functionality & performance, Installed client minimizes server load, Optimized for Win32 & Mac platforms
- Industry leading security
- Improve ease of use and end-user productivity
- Tight integration with Operating System
 - ► Drag and Drop, Re-sizable Dialog Boxes
- Strengthen replication and mobility features
 - ► Roaming and multi-user support, shared mail objects, centralized directory
- Enhance performance
 - ► Reduce Memory Use, Multitasking
- Streamline deployment and administration
 - ► Control via Policy Based Management, Web Admin, Quota Enforcement, Message Journaling, and Automatic Client Upgrading
- Customizable!!!

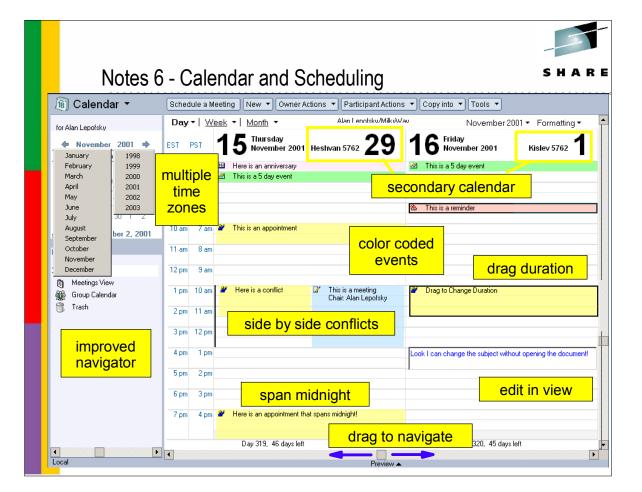


Notes 6 - Feature Areas

- User Interface
 - ► Window Tabs, Dialog Boxes, Toolbars, Status Bar
- Welcome Page
 - ► Basics, Frame-based, Page-based, Set-up Wizard
- Bookmarks
 - ► Startup, History, Multiple Select, Search, Workspace Style
- Mail
 - ► Management (rules, colors, unread docs), Attachments, Multithreading, Archiving
- Editor
 - ► Text/Paragraph borders, Table Enhancements, List/Table Sorting
- Calendar and Scheduling
 - ►UI, Navigation, Sametime, Timezones, Edit in Place, Drag and Drop, To Do
- Personal Directory
 - ► Business Cards Forms, Birthday View, vCards
- Replication
 - ► Drag & Drop, Doc/Attach Size Options, Streaming, Compression









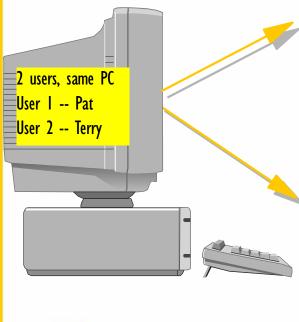
Notes 6 - Multiple User

- Enable Multiple Users to access their personal data while sharing common information on a shared PC
- Examples of sharing a PC:
 - ► Part-time / job share employees
 - ► Visitors from remote locations
 - ► Factory floor setting
- Requires Lotus Domino 6 and Notes 6
 - ► Windows only, requires user profiles
- Common files: templates, modem files, help files, etc...
- Personal files: Welcome Page, Address Book, Bookmarks, Journal, ID file

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Notes 6 - Multiple User



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Shared directory:

c:\document and settings\all users\...\application data\...\shared

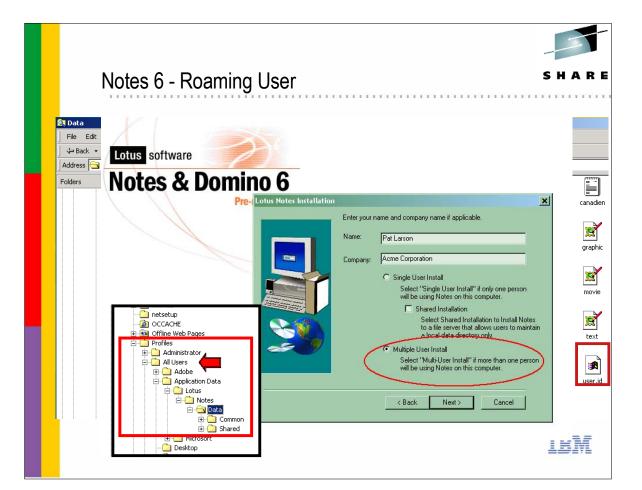
*.ntf Template files
*.mdm Modem files
*.hlp Help Files

Personal directory:

Welcome Page, Address Book, Bookmarks, Preference settings, Journal, ID file

User 1 Pat c:\documents and settings\Pat User 2 Terry

c:\documents and settings\Terry

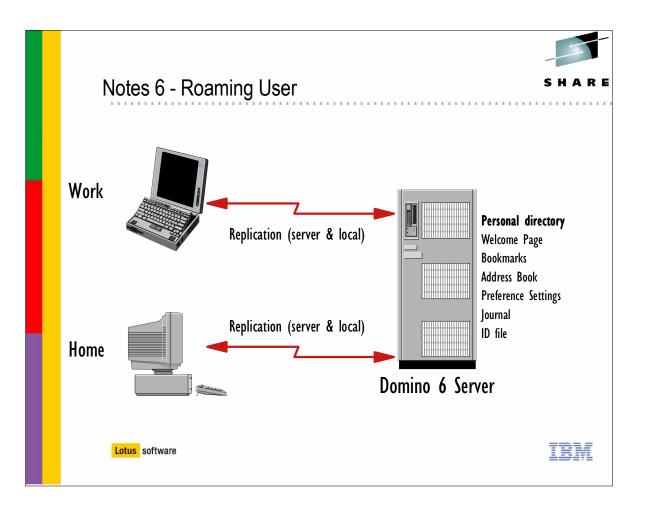




Notes 6 - Roaming User

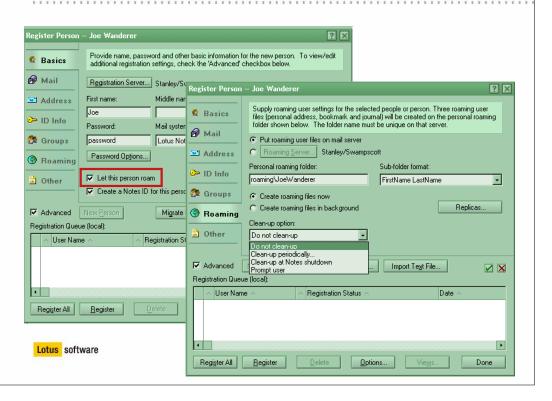
- Enables a user to have their information follow them and remain up-to-date, no matter what PC they are using.
- Examples of multiple PCs:
 - ► Work and Home locations
 - ► Remote work locations
 - ► Muliple PCs in the office
 - ► Upgrading Hardware
- Initiated via an administrative setting
- Requires Lotus Domino 6 and Notes 6

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Notes 6 - Roaming User Setup





Domino WebMail - Overview

- First generation browser access
- Basic mail and C&S functions
 - ► Supports the most platforms of any browser client
 - ► Lotus Domino Release 6 Webmail will support Linux browser
- Off-line enable Mail via Domino Off-Line Services (DOLS)
- Continued usability & performance enhancements in Lotus Domino Release 6

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iNotes Web Access - Overview

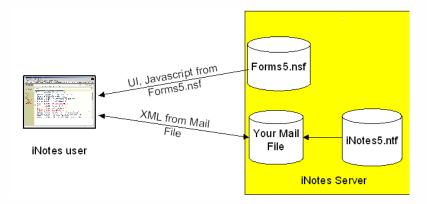
- Next generation Web Client
- Web access to Domino messaging and PIM features:
 - ► Welcome Page, Mail, Calendar & Group Scheduling, To-Do (Task) management, Contacts, Notebook
- Leverage powerful browser technologies (DHTML, XML) to produce a highly usable and functional interface
 - ► Runs cross-platform
- Support for off-line use
- Direct URL addressing of components for portal hosting of specific iNotes Web Access Views
- No-touch client, minimizes rollout & maintenance costs

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iNotes Web Access - Overview

- XML used to retrieve data from Mail file views
- Shared forms file for design elements used by all users on server



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iNotes Web Access - Security

- Basic authentication
- Session authentication
- Secure Logoff
- SSL encryption
- Local offline file encryption
- Active content filtering
- Reverse Proxy Servers
- Virtual Private Network solutions

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iNotes Web Access - Futures

- Win32 Netscape 4.7 support
 - ► Note: performance & experience won't be identical to IE
- IE 6.0 support
- Linux & HP/UX servers supported
- Performance & scalability improvements
- Ability to read encrypted mail
- Lots of new features
 - ► 5.0.10 features + drag-and-drop, C&S improvements, lock down welcome page, rich text enhancements, new UI refresh & more! Stay Tuned!!!

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iNotes Access for Microsoft Outlook

- Allows the use of an Outlook client against a Domino server
- Full support for most commonly used Outlook functions
 - ► Mail
 - ► Directory
 - ► Calendaring & scheduling
 - ► Task management
- Customer 'Outlook'
 - ► Existing Outlook/Exchange customer
 - ► Mixed environments moving towards standardization
 - ► Legacy messaging environment that has limited functionality

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iNotes Access for Microsoft Outlook

- Leverage the benefits of Domino
 - ► Multi-platform support
 - ► Open, Scalable Architecture
 - ► Clustering support
- Mobility is substantially improved
 - ► Field-level, selective and scheduled DOLS replication
- Centralized deployment
 - ► Hands-off deployment
 - ► Minimal training necessary

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Mobile & Wireless Solutions Make Enterprises....

- More responsive
 - ... to their customers by making sure employees can be reached anytime
- More effective
 - ... to reduce the cost of doing business
 - ... by reducing the time it takes to execute business processes by letting them be used anywhere
- More productive
 - ... by allowing them to use "dead time" and function without their laptop/network connectivity by using wireless networks and any device

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Mobile & Wireless Work Force

- Traveling Executives
 - ► Always need to be available, don't like carrying laptops
 - ► Need PIM functions
- Empowering the Sales Force
 - ► Users who live on mobile phones and dial in to the network at night, while they are with customers, while they are in cabs, airports, etc.
 - ► Need access to e-mail, Directory, Sametime
- Enabling the Road Warrior
 - ► Important users that are always traveling.
 - ► Need access from airports, hotels, conferences
 - ► Need PIM functions, plus Domino Applications

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IBM



Domino Everyplace - Family Overview

- Domino Everyplace Access (DEA)
 - ► WAP microbrowser user interface
 - ► Out-of-box wireless access to Mail, Calendar, Directory, To Do, PAB
 - ► Conversion and access to Domino applications
- Domino Everyplace Enterprise (DEE)
 - ► Mobile application development environment via Domino Designer
 - ► Synchronization engine for Domino
 - ► Application and data synchronization
 - ► Mobile Notes clients for devices
- Domino Everyplace SMS (Short Message Services)
 - ► Paging and SMS integration with Notes/Domino
- Sametime Everyplace (STEP)
 - ► Wireless instant messaging and awareness
- EasySync Pro
 - ► Local simple synchronization





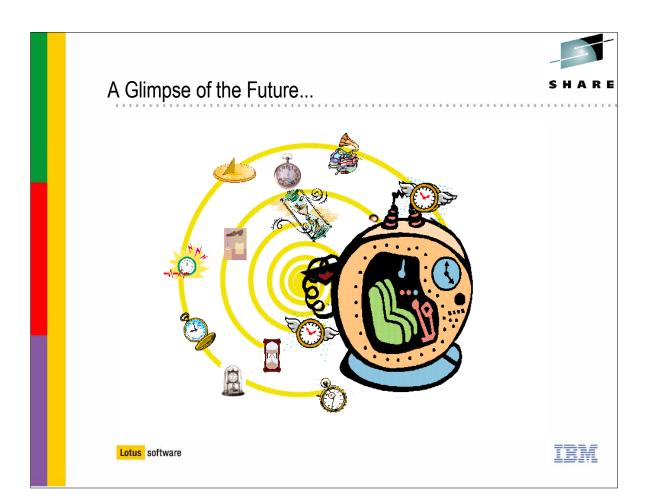


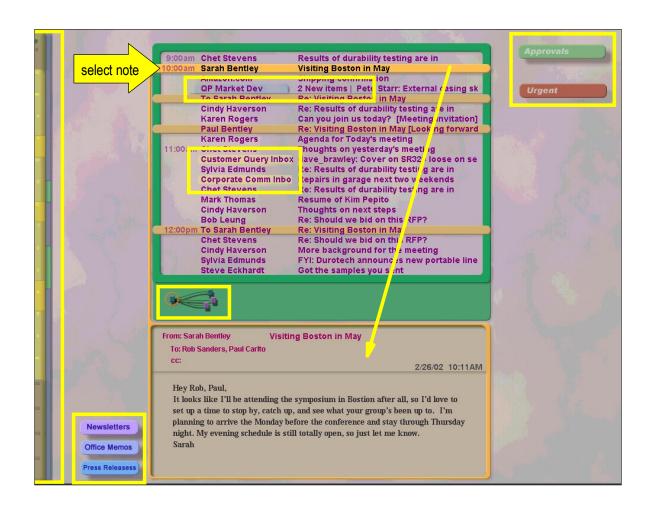
Domino Everyplace - Futures

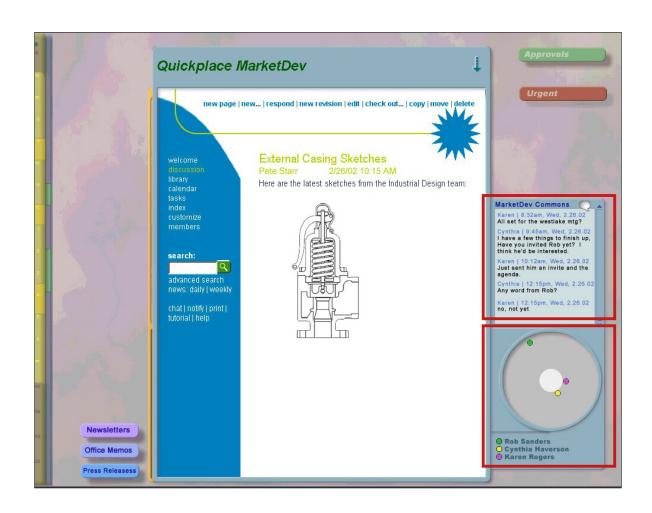
- Domino Everyplace Access
 - ► Support for additional markup languages, mircobrowsers
 - ► Integration of push technology (e.g., WAP 2.0)
- Domino Everyplace Enterprise
 - ► Sync of email/PIM
 - ► Sample mobile applications
 - ► Additional device support
- Sametime Everyplace
 - ► Enhanced scalability, reliability, extensibility
 - ► Additional device support
- Continued integration with the IBM Pervasive technologies
 - ► e.g., Websphere Everyplace
- Integration with Lotus Notes/Domino Release 6

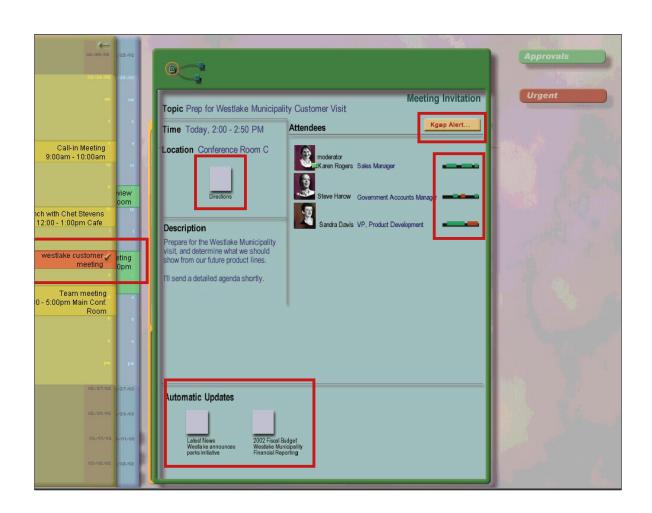
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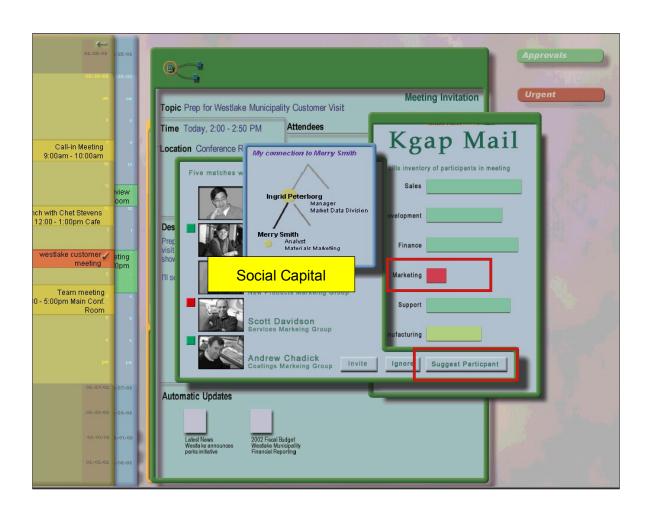
IEM







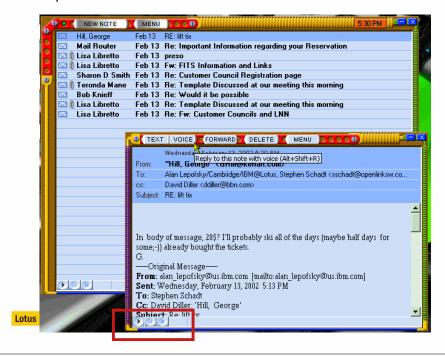






Notes Buddy

■ www.alphaworks.ibm.com





Which Client Is Right For You?

- Factors to consider when making client selections:
 - ► Client ubiquity
 - ► Thin, midrange, or full client functionality
 - ► Low cost client deployment/maintenance
 - ► Security
 - ► Client & server performance
 - ► Access to collaborative applications
 - ► Application integration
- It's a matter of choice ...

"The power to work the way you want"!

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IEM



Summary

- Lotus Software is worldwide market leader in collaboration.
- Lotus being part of IBM is a GOOD thing.
- No one else can provide the range of products, solutions, services, hardware, and research innovation that IBM can.
- "Contextual Collaboration", modular components, and standards such as J2EE (Web Services)
- Start thinking Solutions, not Products.
- Lotus Domino Server is the Premier Enterprise Platform
- Lotus Client Family allows you to "Work the Way You Want"

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