Lotus software

IBM

Build M12_01242002 Pre-release 1 January 24, 2002

Lotus software
Notes 6 Pre-release 1

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Domino Administrator 6 Pre-release 1

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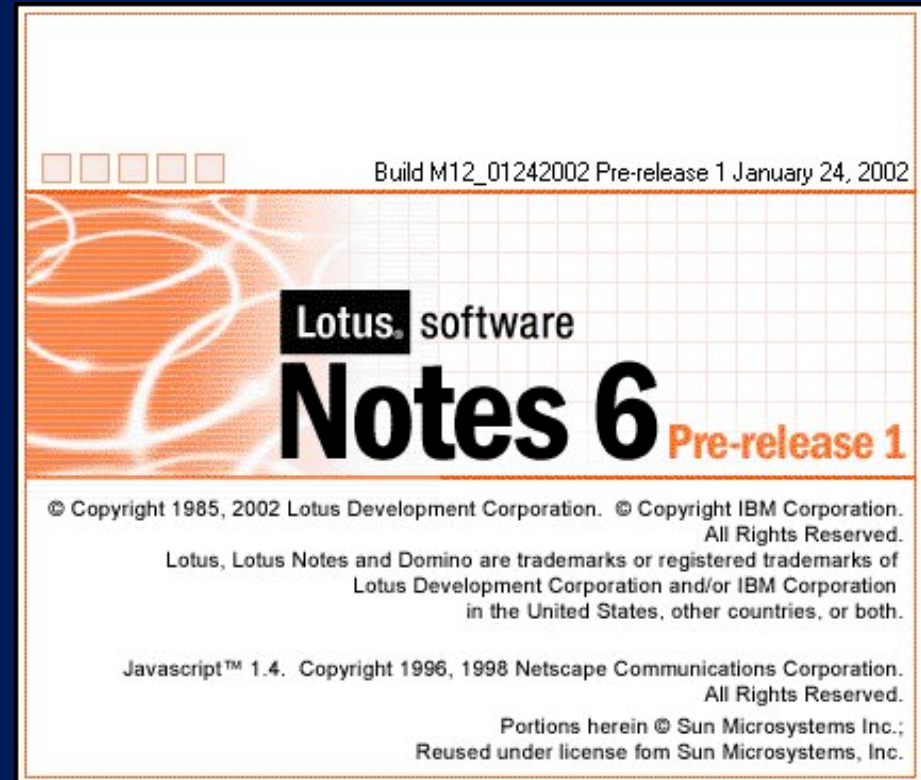Reused under license fom Sun Microsystems, Inc.

Technical Overview

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IBM Software Group

Notes Release 6

Technical Overview

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Notes 6 Pre-release 1

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Notes Release 6 Design Goals

- Improve ease of use
- Remain the premier mail, calendaring & scheduling and task management client
- Strengthen replication and mobile features
- Continue to focus on collaboration
- Enhance performance
- Streamline deployment and administration

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Ease of use

- **User Login**
  - ► **Support for Multiple Users**
  - ► **Support for Multiple Locations**

- **User Logout**
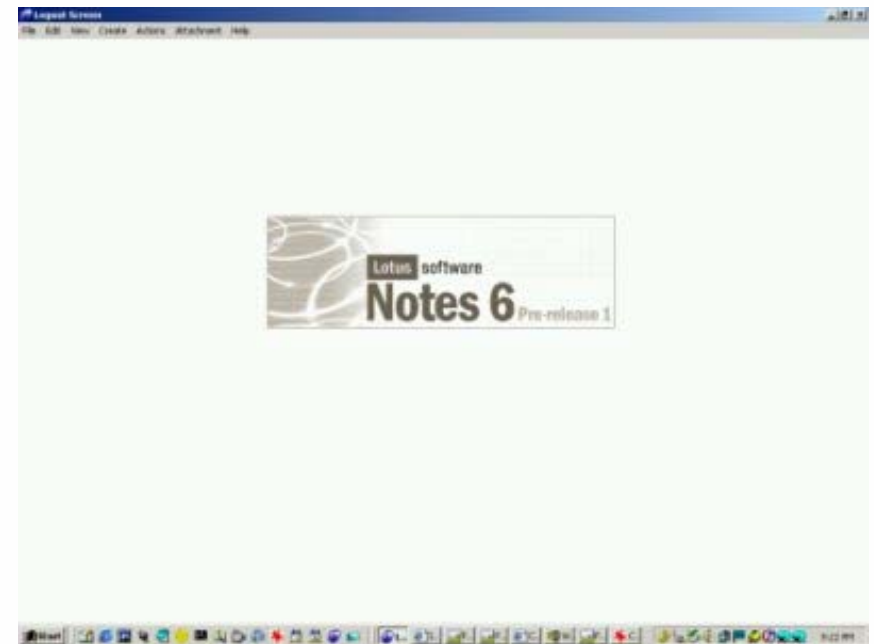
Ease of use

- **Welcome Screen**
  - ►**Very Customisable**
  - ►**Tips of the Day**
  - ►**Preview Pane**
  - ►**Launch Pad**
  - ►**Quick Notes**
- **UI Enhancements**
  - ►**Customisable Status Bar**
  - ►**Resizable Dialog Boxes**

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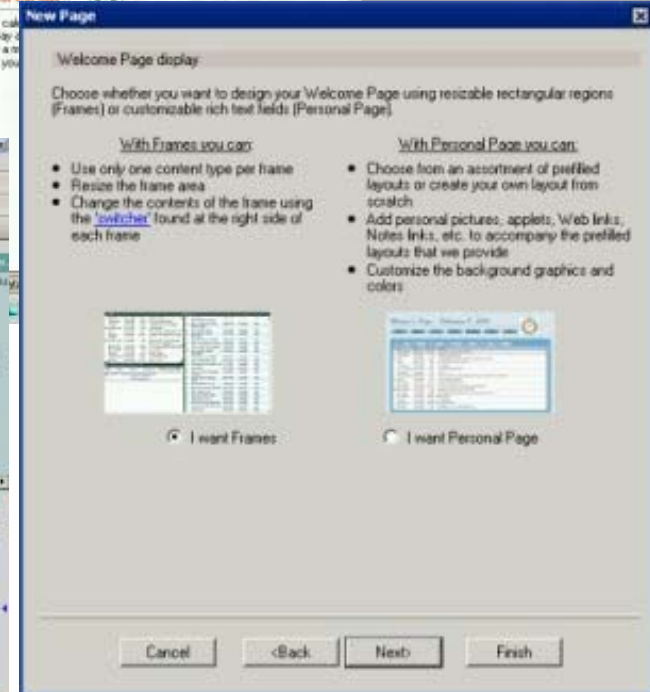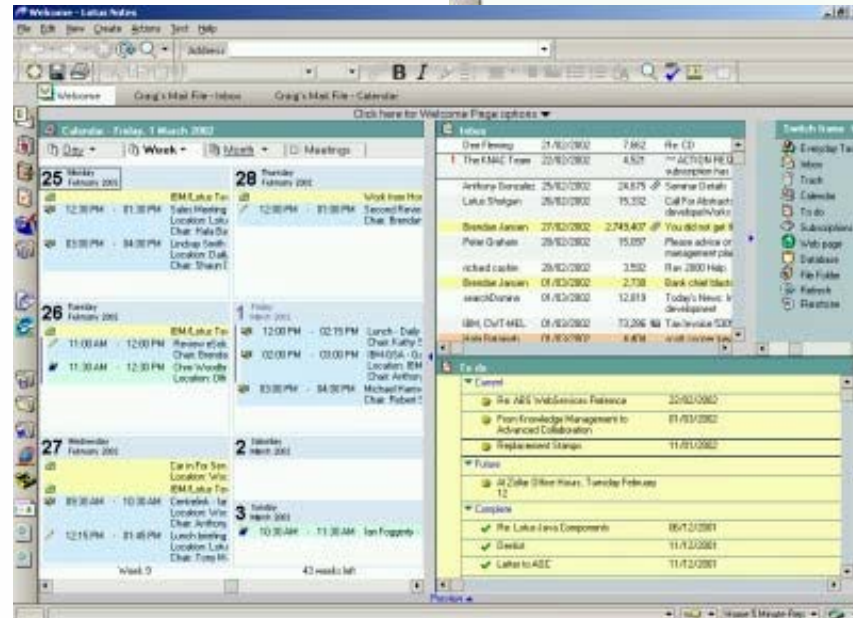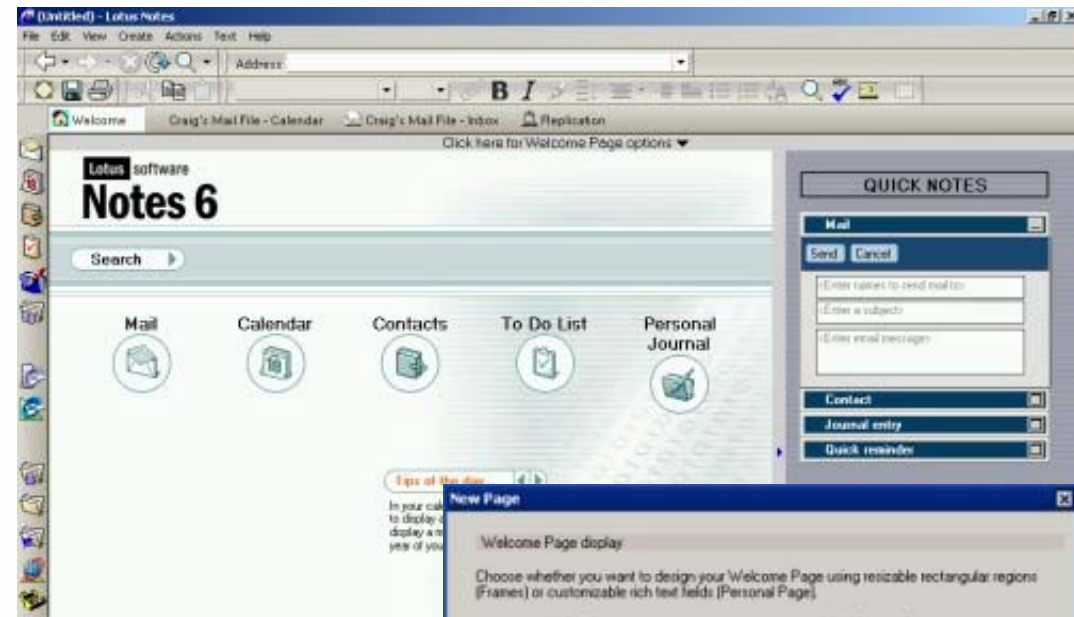
Ease of use

- **Bookmarks**
  - ► **Startup Folder**
  - ► **History**
  - ► **Drag-n-Drop**
  - ► **Sorting**
  - ► **Folders - Workspace Page**

History	
Sort ▾	View ▾

📁 Today
  📁 Craig's Mail File
  📁 Lotus Sales Tools 5
📁 Yesterday
📁 Monday, 4 March
📁 Sunday, 3 March
📁 Saturday, 2 March
📁 Friday, 1 March
📁 Thursday, 28 February
📁 Wednesday, 27 February
📁 Tuesday, 26 February

Large Icons
Medium Icons
✔ Small Icons

Display as Page
✔ Display as Slideout

Show Unread Document Count
Show Server Names

Restore Bookmark Defaults

Pin Bookmarks Window

by Site
by Title
✔ None

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Notes Mail

- **New Mail Template Features**
  - ► Unread and Total Document counts
  - ► Reorder columns
  - ► Colour Schemes
  - ► Attachment Control
    - – for Replies & Forwards
    - – Drag-n-Drop
    - – Detaching (non modal)
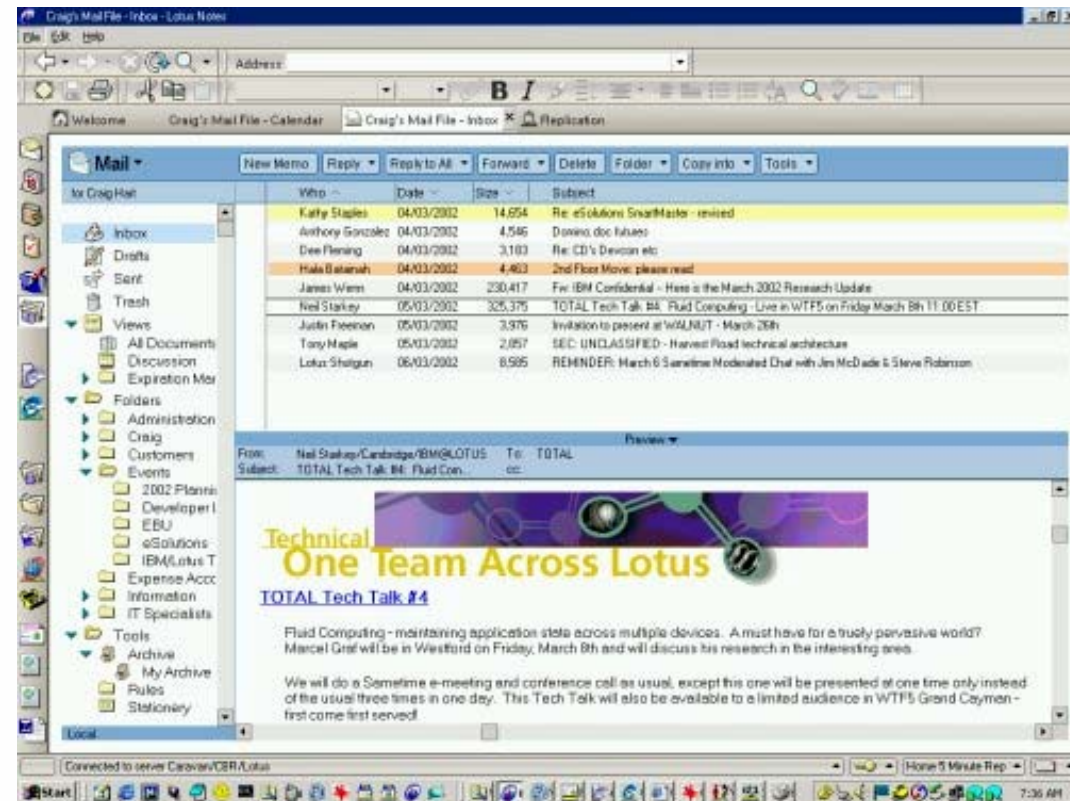
# Notes Calendaring & Scheduling

- **Redesigned**
  - ► **More Tools on the one form**
  - ► **Colour Coding**
  - ► **Time Zones**
  - ► **Improved Delegation**
  - ► **iCalendar and vCard support**
  - ► **New To-Do views**

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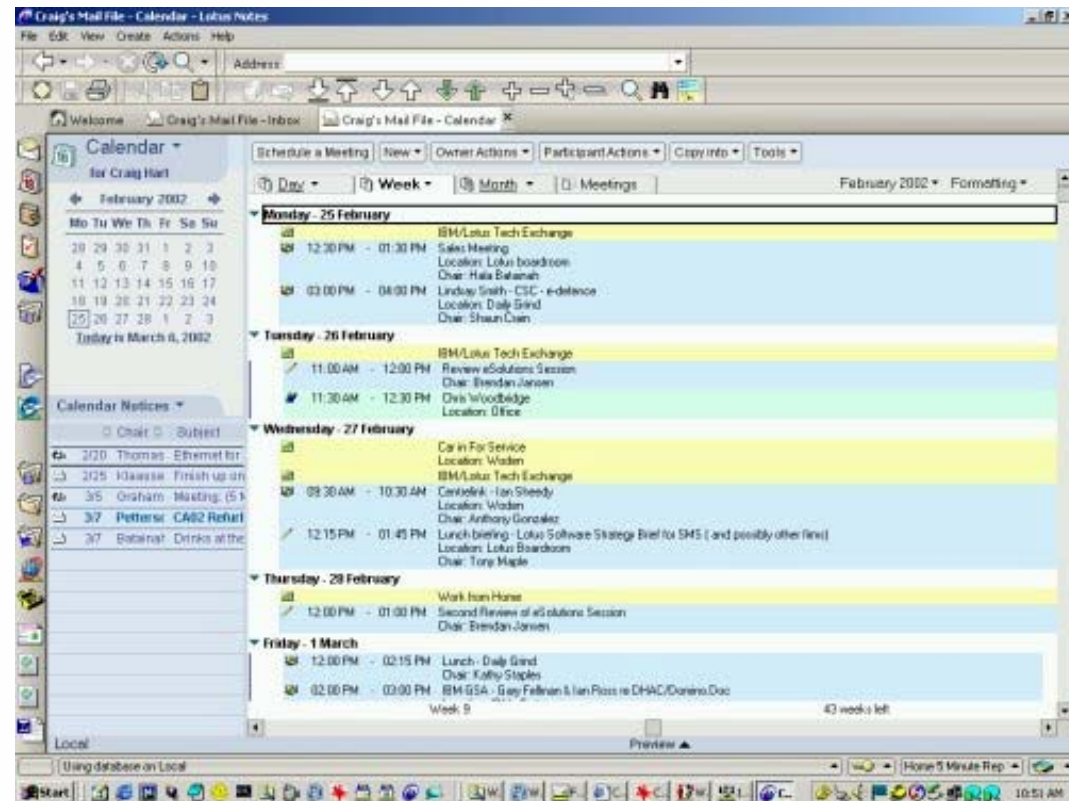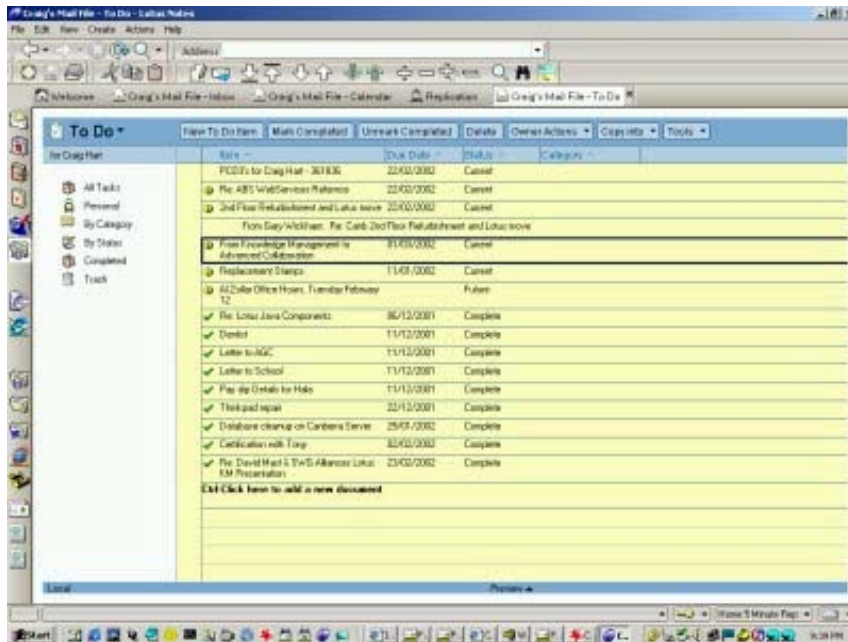
Replication and Mobility

- **Many Monitoring Tools on the Replicator page**
- **Dynamic Sorting and Grouping**
- **Create replicas by Drag-n-Drop**
- **New Replication settings**
  - for mail
  - for standard databases

- **Roaming User**
  - your PC follows you!
    - ID file, bookmarks
    - Welcome page
    - Address Book
    - Preferences
- **Multi User**
  - Reorganised Client File System

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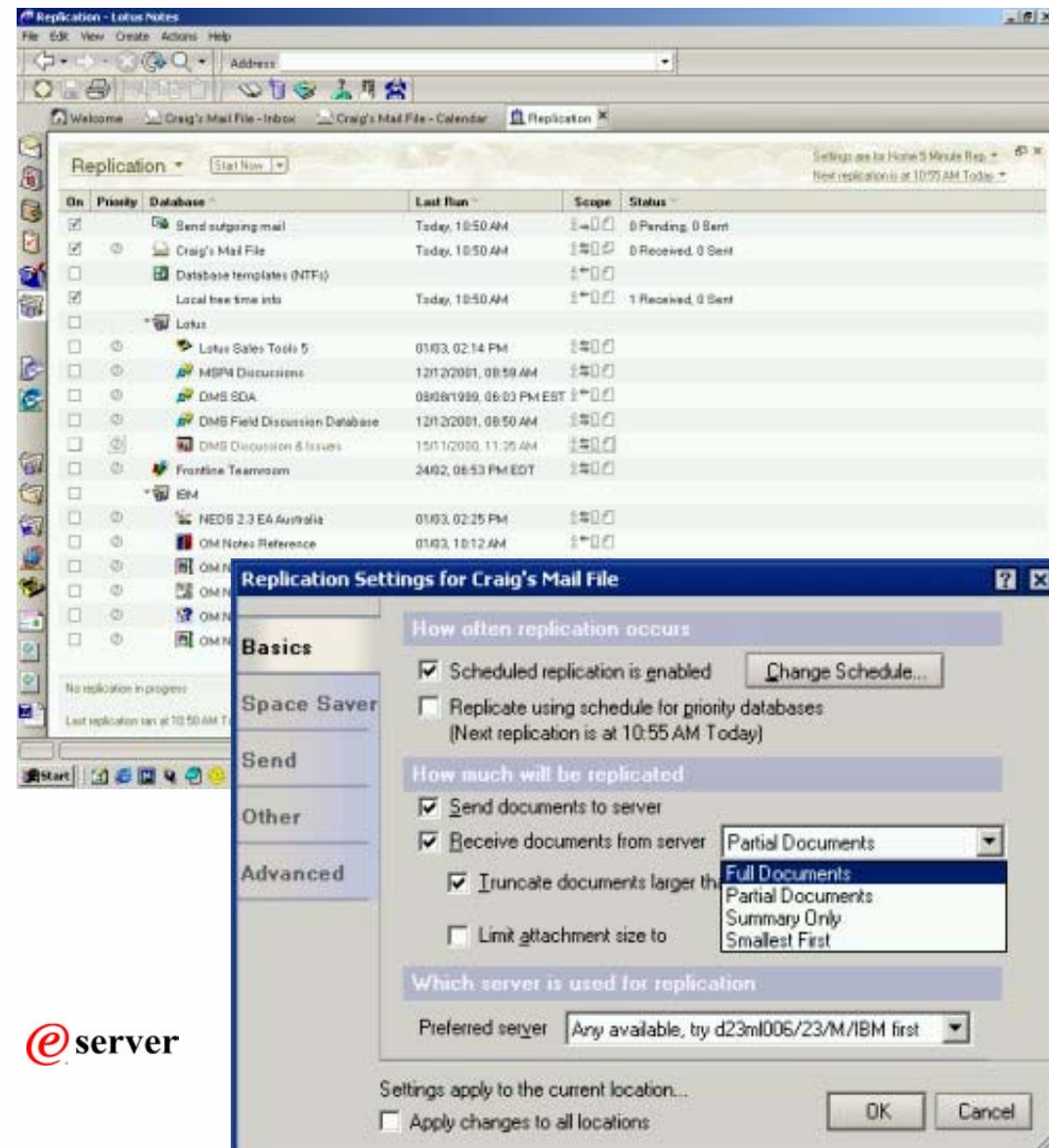
e server

Collaboration

- Lock and Unlock Documents
- Works Across Replica Servers
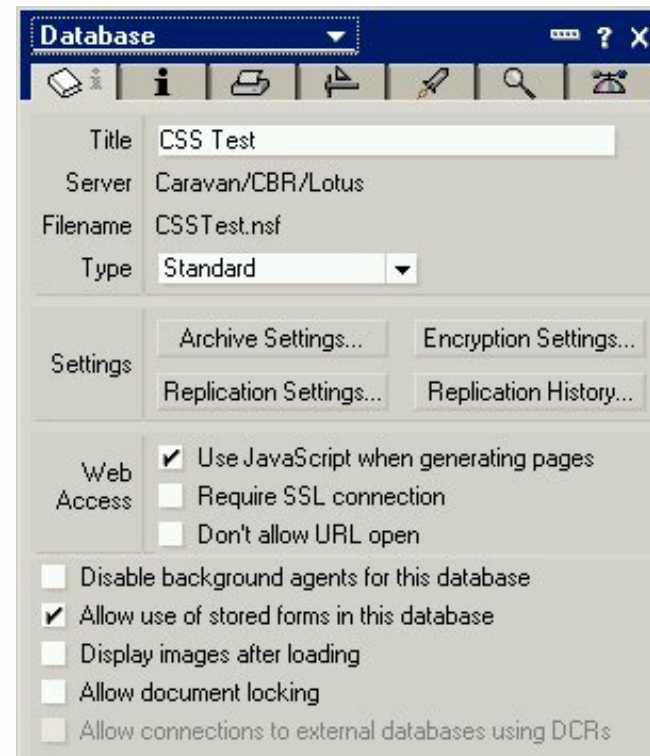
Performance

- **Many new areas using multitasking**
  - ► New Mail Polling
  - ► Detaching Files
  - ► Replicating
  - ► Printing
  - ► Alarm Monitoring
  - ► Agents
  - ► Replace Designs
  - ► Database Copy Functions
- **Reduced Memory usage in some areas**
- **New Compression algorithm for NRPC data transfers**
- **Better control over selective replication**
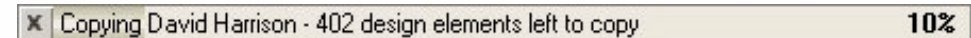
| ✕ | Saving C:\LDS-for-eSol.v3.zip | | 54% |

| ✕ | Copying David Harrison - 402 design elements left to copy | | 10% |

| | Save completed - C:\Transfer\WW 670 - RNAD WebDa... ▲ | ✕ | Replicating 3 databases - (3) Local free time info | | 75% |

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Administration

- Welcome Page deployment options
- Policy Documents
  - enforcing standards and configurations across groups, departments or the entire organisation
- New Tools to manage roaming and mobile users
- New Release deployment via Smart Update feature
- All Security options in one dialog box!
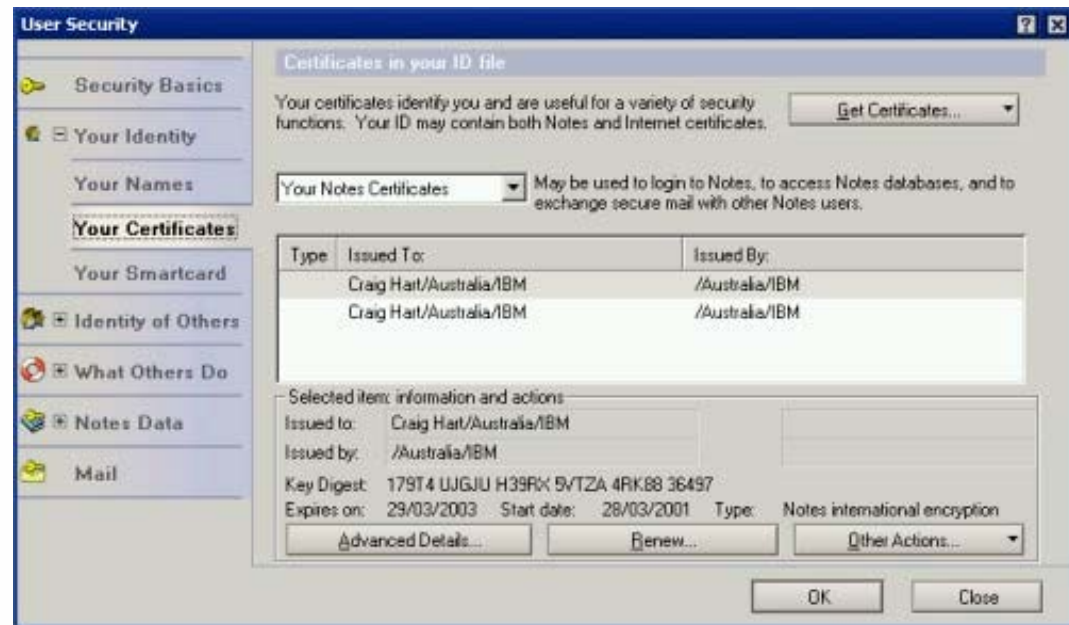
Domino Release 6

Technical Overview

Key Design Goals

- Server Scalability and Performance
- Improvements in Administration
- Web Server Enhancements
- Changes to Directories
- Domino Hosting Features
- New Security Features
- Messaging Enhancements

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Server Scalabilty and Performance

- **Startup and Server Performance**
  - ► Transaction logging of key views
  - ► Log information about the "availability index"
  - ► Optimisation or Agent Manager startup
    - –no longer has to search each database
  - ► Optimisation of Schedule Manager
    - –reduces server overhead
  - ► Inclusion of persistent directory manager cache
  - ► Enhanced Cluster support, including automatic detection of software failures and automatic fault recovery, available across all platforms

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Server Scalabilty and Performance

- **Replication**
  - ► Streaming Replication
    - – involves a single server request, which then pulls in all the data (Notes documents and their attachments) into the database.
    - – much improves replication efficiency
    - – views are populated with individual documents as replicatiing
- **Client Server Interactions**
  - ► Open and Save operations are far more efficient
  - ► Less network traffic in many areas
- **Network Compression**
  - ► improves data transfer rate by ~50%
  - ► WANs and XPC's will see the most benefit

Server Scalabilty and Performance

- **Full-Text Search**
  - ► Most data is updated in place
  - ► Better memory and I/O management between NSF and FT
  - ► Significantly fast processing, especially for Boolean queries
- **Formula Engine**
  - ► roughly 200% computation improvement
  - ► adds performance improvements to many areas where used, such as view refreshes, agents and form rendering
- **IMAP Server**
  - ► no longer a layered approach
  - ► core NSF includes native IMAP semantics
  - ► multi threaded server task

Improvements in Administration

- **Policy Based Management**
  - ► Standard settings and configurations
  - ► Supports policy hierarchy
    - – Policies, sub policies, inheritance
    - – Policy Synopsis
- **Used for**
  - ► Registration policies
  - ► Setup and Desktop policies
  - ► Archiving policies
  - ► Security policies

Policy : /Demo Corporation

Basics | Administration

Basics

Policy name:	/Demo Corporation	Create Child
Policy type:	Explicit ▼	
Description:	Demo Corporation Policy	

Setting Type	**Setting Name**	
Registration:	Demo Corporation Master Registration Settings ▼	New...
Setup:	Demo Corporation Master Setup Settings ▼	New...
Archiving:	▼	New...
Desktop:	▼	New...
Security:	▼	New...

Improvements in Administration

- **Automatic Client Upgrades with Smart Update**
  - ► at a push of a button!
  - ► When users connect to their home server they are prompted for the upgrade, if they say OK
    - – new software is downloaded from the server
    - – client is shutdown,
    - – then upgraded,
    - – and finally restarted

Tools	▶	Notes Smart Update...
Restart As New User		Server Administration...
Exit Notes		
		Debug LotusScript
		Remote Debugging
		Show Java Debug Console
		Stop Local Web Preview Process
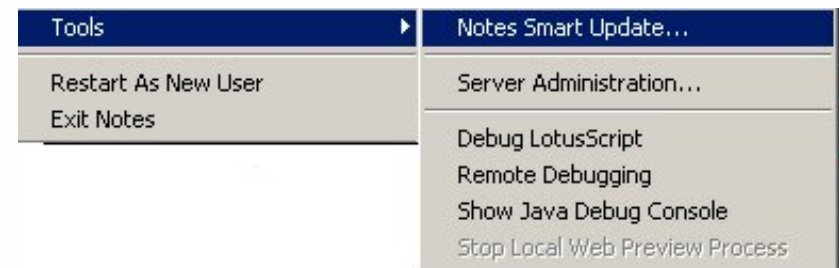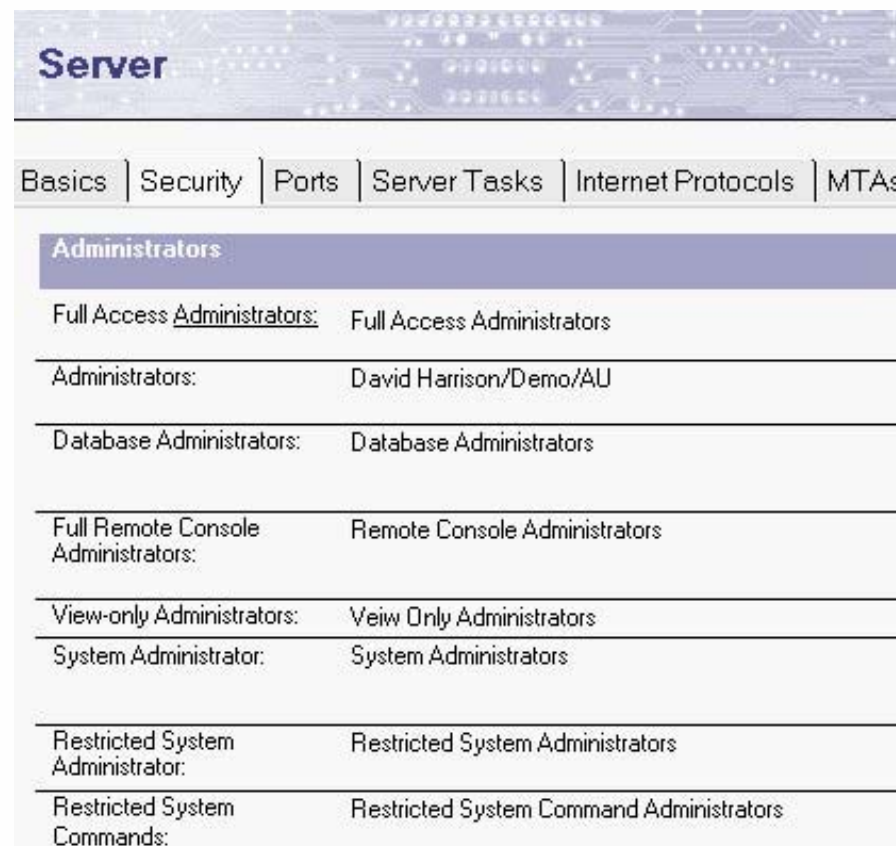
Improvements in Administration

- **Roaming User Support**
  - ► User ID, prefs, Welcome page, Bookmarks etc. is replicated from server to workstation upon connection
- **Delegation of Server Administration**
  - ► Multi level policies eg.
    - Database operations
    - Server Console operations
    - Replica & Database Deployment
    - User Creation
    - Directory Management

Server

Basics | Security | Ports | Server Tasks | Internet Protocols | MTAs

Administrators

Full Access Administrators:	Full Access Administrators
Administrators:	David Harrison/Demo/AU
Database Administrators:	Database Administrators
Full Remote Console Administrators:	Remote Console Administrators
View-only Administrators:	Veiw Only Administrators
System Administrator:	System Administrators
Restricted System Administrator:	Restricted System Administrators
Restricted System Commands:	Restricted System Command Administrators

Improvements in Administration

- **ASP Administration**
  - ► Easy to create and manage hosted user communities
  - ► Generate Usage Reports
  - ► Billing Capabilities
  - ► for NRPC and HTTP Requests
- **Deployment of Corporate Welcome page**
  - ► via standard template and policies
- **Notes Client Reporting**
  - ► Automatically updates directory with client version, OS etc.

Notes client license:	Lotus Notes
Notes client machine:	
Notes client platform:	
Notes client build:	
Network account name:	
Change request:	None
Policy:	

Improvements in Administration

- **Console Innovations**
  - ► Separate Java Console, so direct connection to server not required
  - ► Web Admin client has look and feel of the Win 32 client
- **Statistics monitoring and Analysis have been improved to allow for individual servers as well as server groups and the entire domain**
- **New Server Health Monitoring and Activity Trend analysis**
  - ► reports, charts
- **New Server activity logging for POP3, IMAP, HTTP, SMTP, NNTP and LDAP activity**

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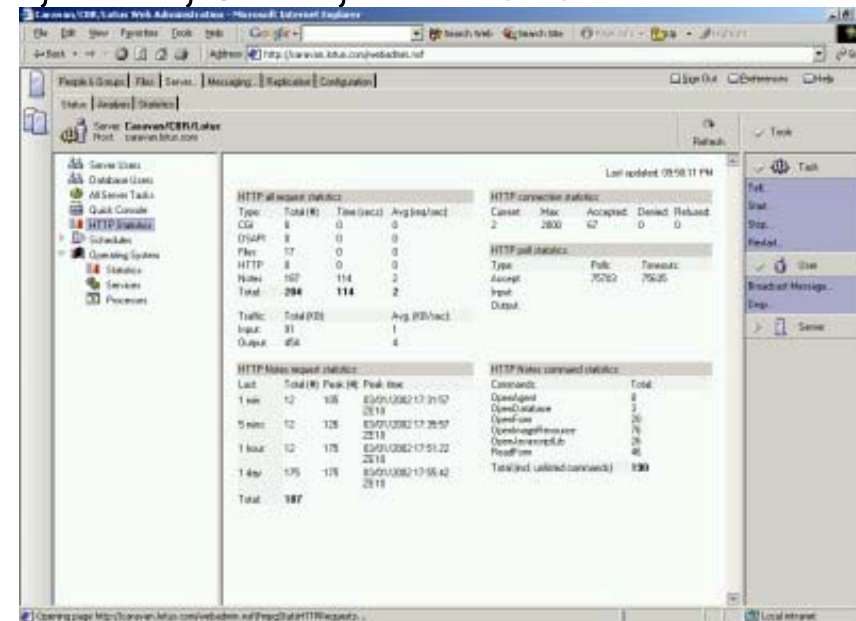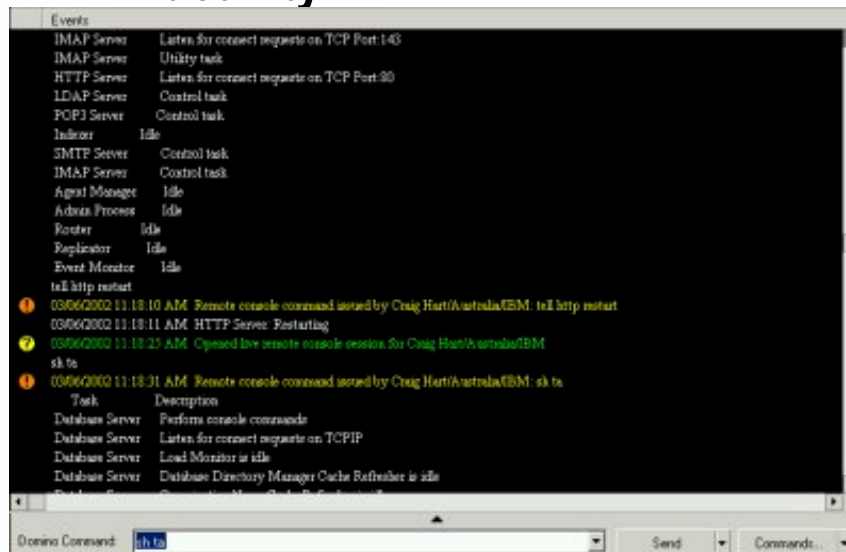
Web Server Enhancements

- Geared towards enhancing performance, scalability and expanding the capabilities for Web application development and deployment
- Fully Supports HTTP 1.1 - persistent connections, improved session handling, better denial of service attack handling etc.
- WebDAV support

(Web Distributed Authoring and Version)

- ► Standard way of doing collaborative application development
    - –NSF is the storage facility
    - –CheckIn/CheckOut functionality
- Domino Custom Tag Library
    - ► provided for developers building J2EE applications in 3rd party tools

files on
caravan.lotus.
com via
WebDav

Changes To Directories

- **Easier to integrate into a multi-directory environment**
  - ► Distributed Directory model
    - – full names.nsf on every server
  - ► Centralised Directory model
    - – 1 or 2 servers centrally with full names.nsf
    - – smaller names.nsf's on other servers
- **Improved LDAP Capabilities**
  - ► Schema can be extended
  - ► migrate users from LDAP directories into the Domino Directory
  - ► Authentication now possible for all web services with secondary directories (Domino or LDAP)

Users + Config — Site 1

Config — Site 2

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Config — Site 3

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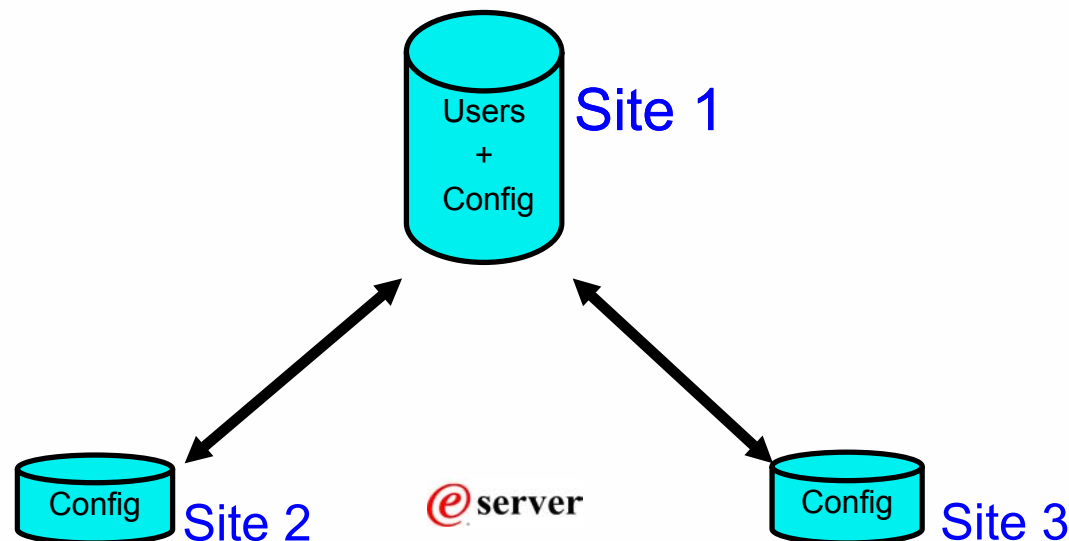
Changes To Directories

- **Multi Organisation Directories**
  - ► Securely segmented per organisation
- **Improved name lookup, around 95% faster**
- **Synchronisation with Active Directory**
  - ► register, sync properties and passwords, rename and delete users when you perform those operations in Active Directory
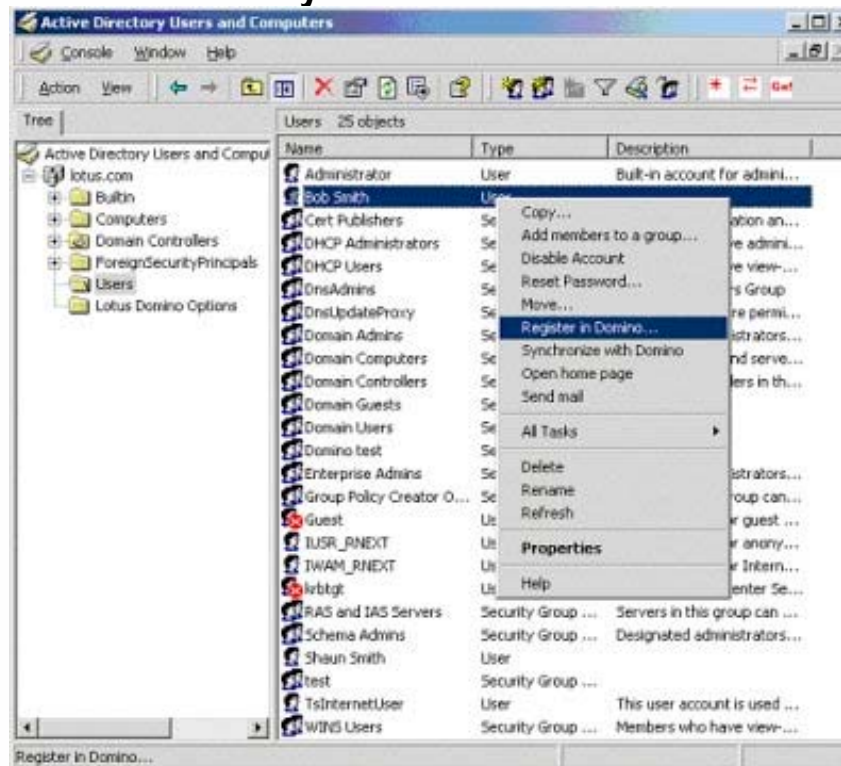
Domino Hosting Features

- **Multi Organisations transparently hosted in a single logical Domino server**
  - ► ASP Configuration is a Domain wide setting
  - ► Separate Addressing formats and standards
  - ► Security features for multiple organisations using same databases (xACL's)
  - ► Protocols supported, IMAP, POP3, HTTP, NNTP, LDAP, SSL and IIOP
  - ► Granular Activity logging and Billing

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New Security Features

- Support for PKCS#11 standard for Smartcards
- Support for S/MIME v3
- New Certificate authority incorporates both Notes and Internet Certificates
- Admin ECL's
  - These can be pushed dynamically
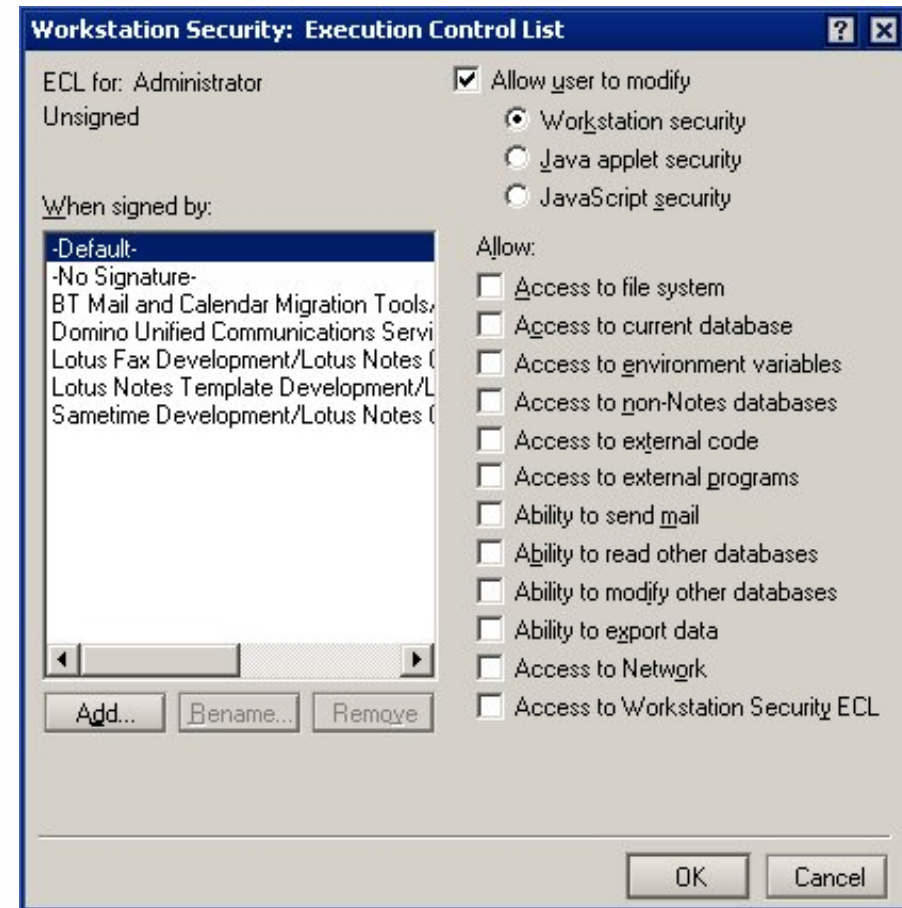
Messaging

- **System Rules on Email Messages**
  - ► can be filtered on content to prevent SPAM through routers etc.
- **Better Quota management for mail users**
  - ► hold mail for a user while they clean up their act!
- **IMAP server supports Namespace extension**
  - ► an IMAP user can now see folders in another users mail file etc.
- **Realtime Blacklist site management**

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Domino Designer 6

Technical Overview
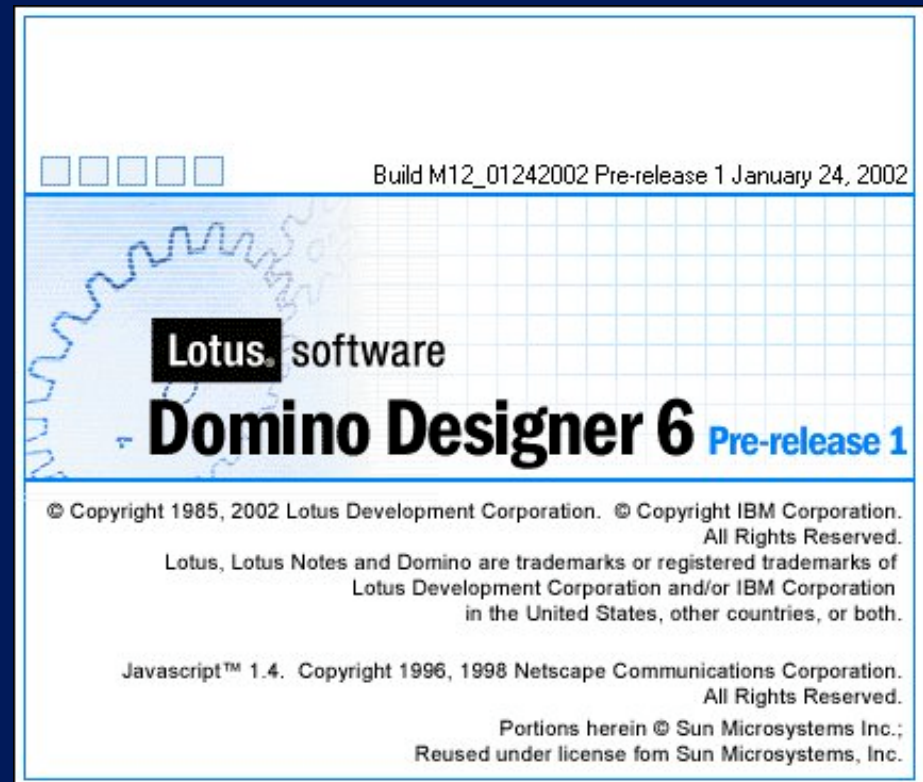
Key Focus Areas

- Managing complex applications
- Reusability
- Presentation development
- Database development
- Agent design and management

Managing Complex Applications

- Better support for applications that span multiple databases
- Support for non traditional "NSF" elements
- Support for Design element locking
- Support for 3rd Party Tools
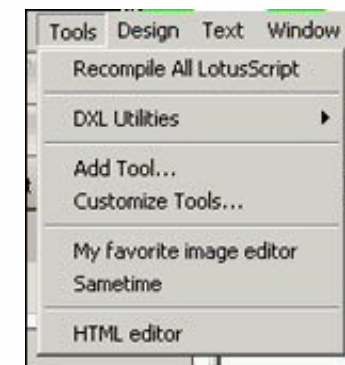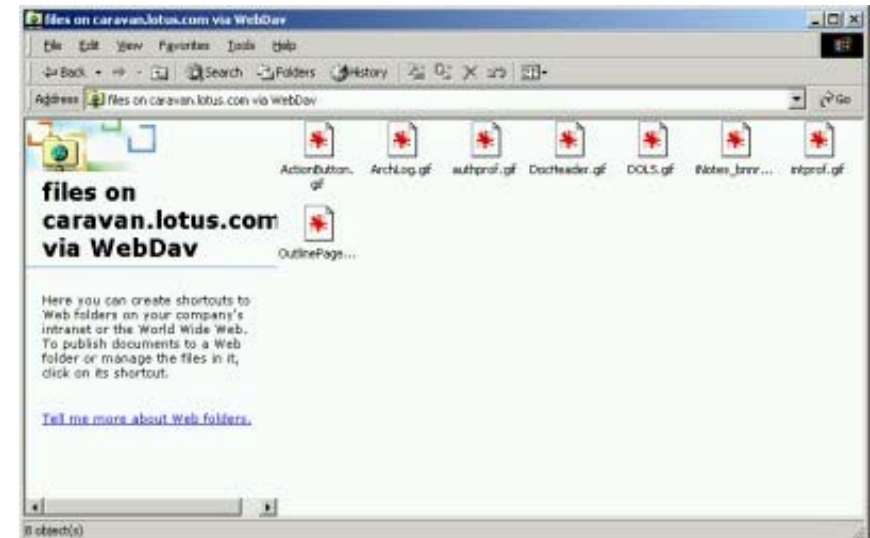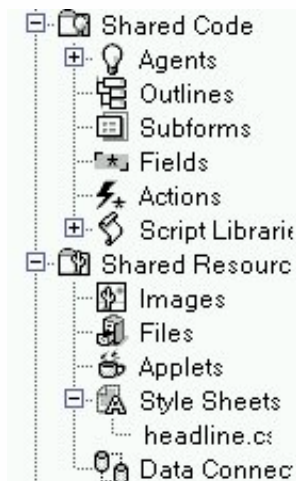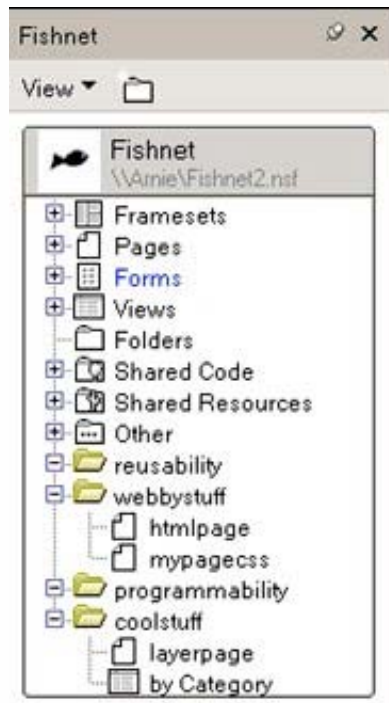
Improved Reusability

- **As Domino Applications become larger and more sophisticated, more code can be reused**
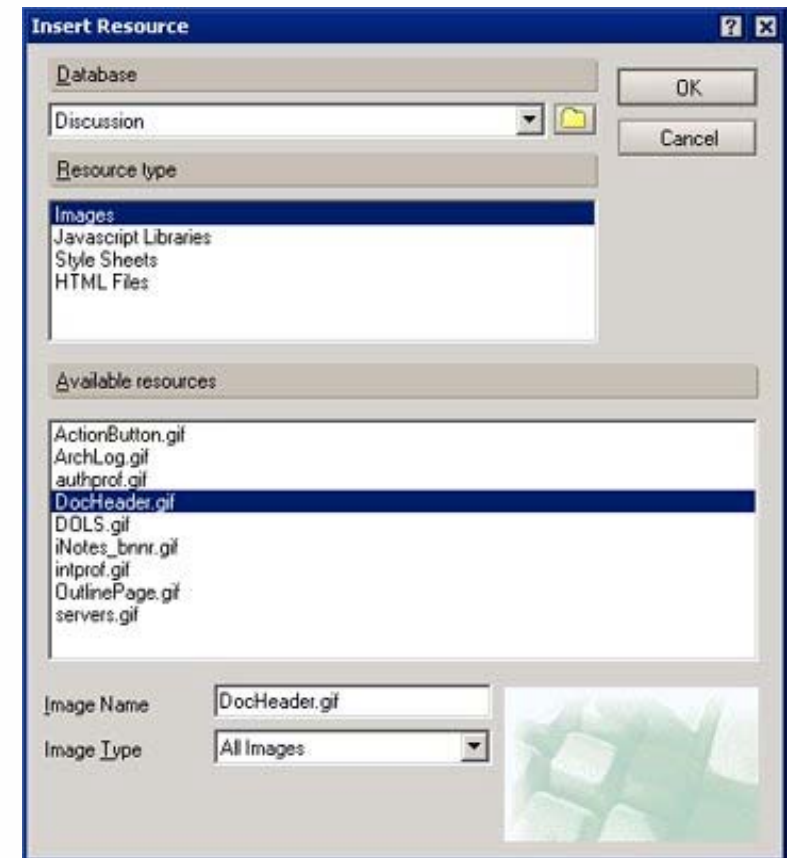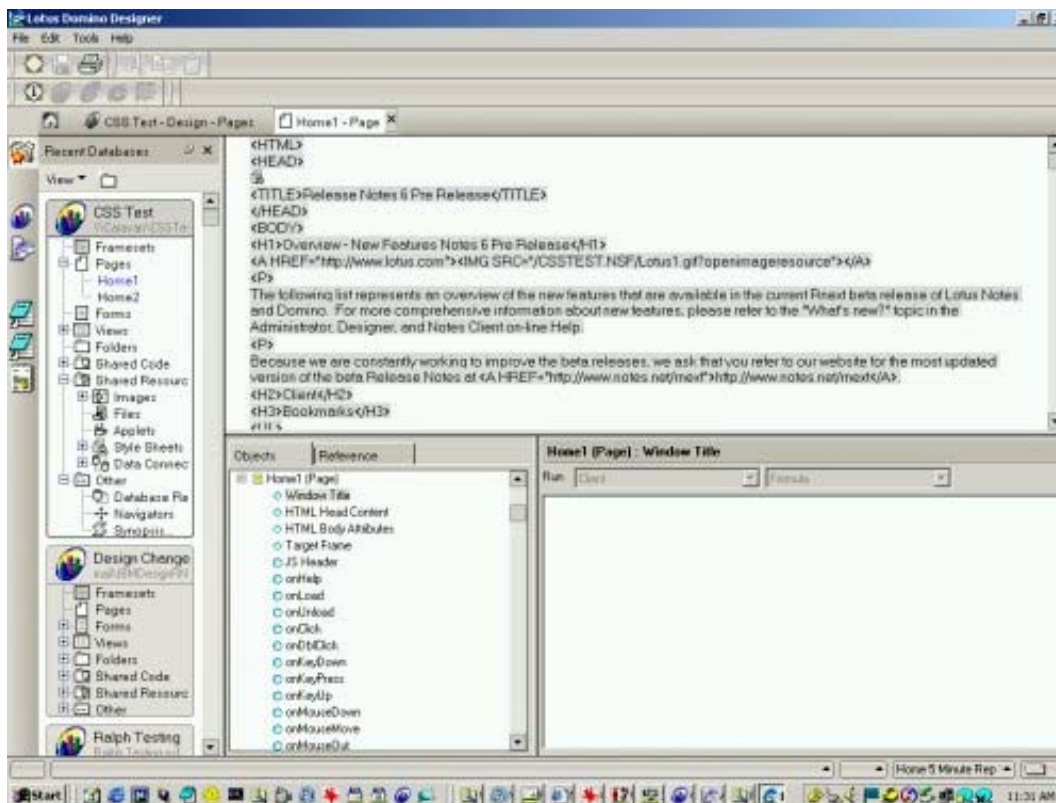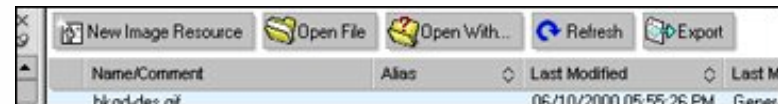
Presentation Design

- **Inclusion of many "Web" design elements within the IDE**
  - –layers, style sheets etc. (external editors)
- **Edit HTML as text or in WYSIWYG**
- **Client Options, Notes, Web, Mobile**
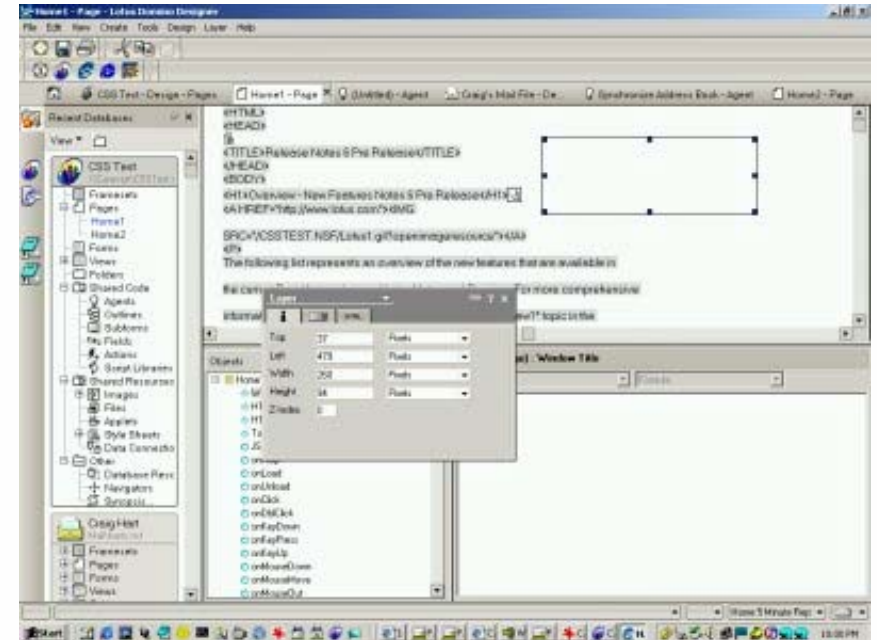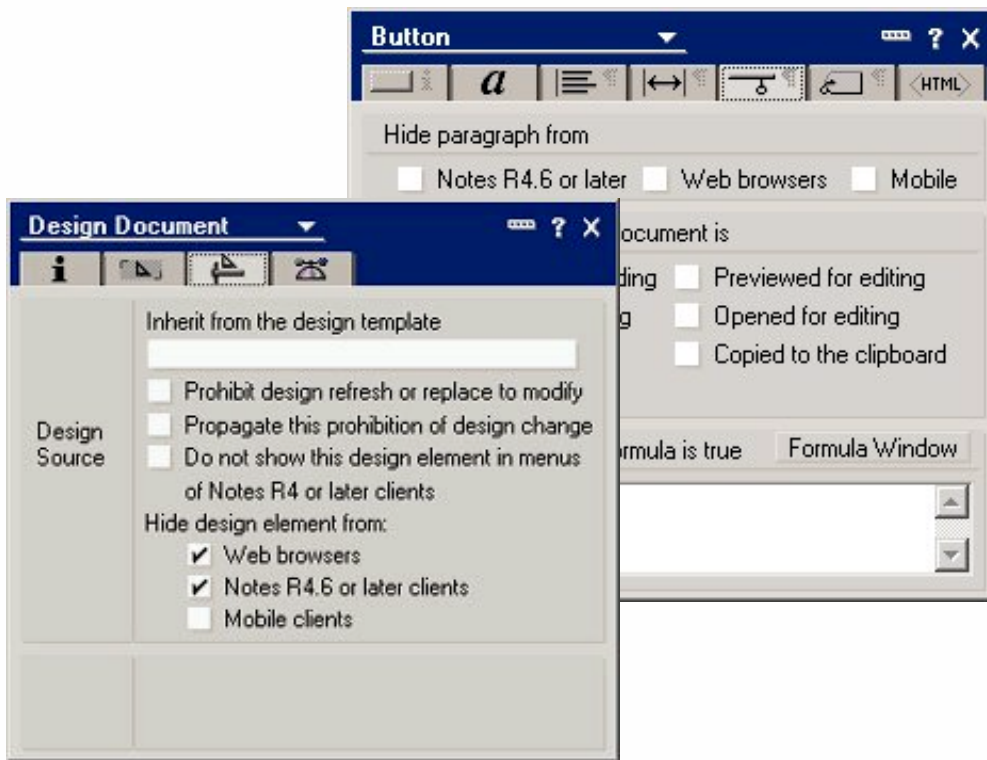
Database Development

- Type ahead for @functions, HTML & LotusScript in the Programmers Pane
- Better event handling (Web/Notes)
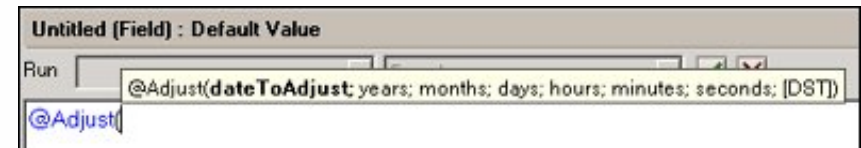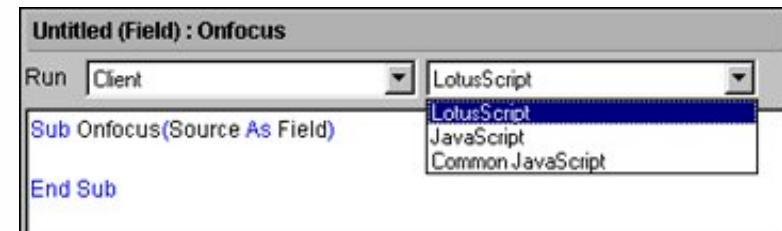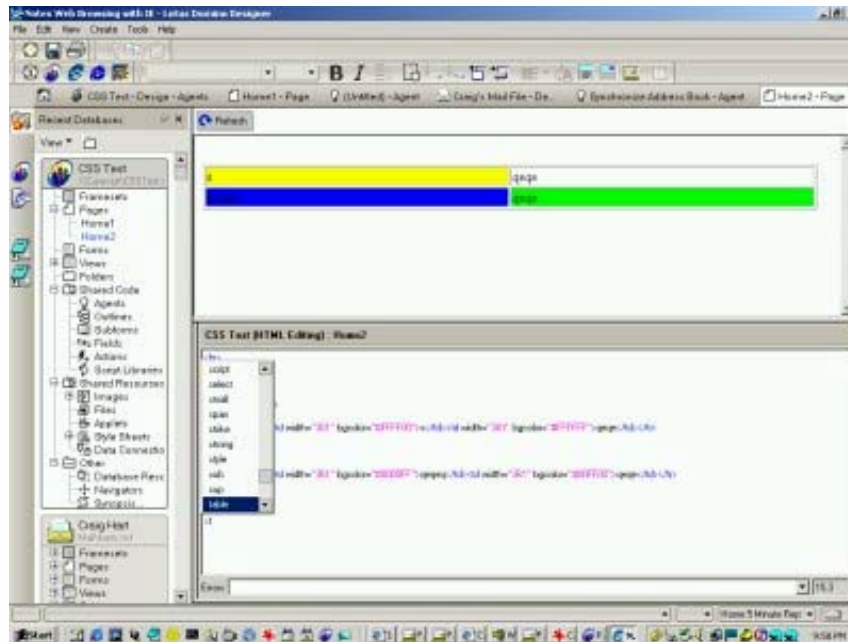
Database Development

- **External data Connections (DECS)**

Agent Design Improvements

- New Interface for design
- Ability do debug server side agents

Technical Overview

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