

IBM Lotus Notes and Domino 8 Reviewer's Guide

New productivity tools for users

Comprehensive overview of all new and improved features

Understand business benefits of this open, extensible, and innovative solution platform



Philip Monson
Karen Brent
Joanne Mindzora



International Technical Support Organization

IBM Lotus Notes and Domino 8 Reviewer's Guide

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Note: Before using this information and the product it supports, read the information in “Notices” on page vii.

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Contents

Notices	vii
Trademarks	viii
Preface	ix
The team that wrote this paper	ix
Become a published author	x
Comments welcome	x
Chapter 1. Introduction	1
1.1 Overview	2
1.2 What's new overall	5
1.2.1 Open application infrastructure	5
1.2.2 Improved mail capabilities	5
1.2.3 Improved efficiency and performance	5
1.2.4 Greater versatility	6
1.3 What's new for the Lotus Notes user	7
1.4 What's new for the Lotus Domino Web Access user	15
1.5 What's new for the administrator	17
1.6 What's new for the application developer	25
Chapter 2. Changes for the user	31
2.1 Introduction	32
2.2 Enhanced user interface	34
2.2.1 Home page	34
2.2.2 Open list	36
2.2.3 Toolbars	38
2.2.4 Window management and navigation	38
2.2.5 Thumbnails	39
2.2.6 Unified preferences	41
2.2.7 Advanced Menus option	41
2.2.8 Making applications available offline	42
2.2.9 Search center	43
2.2.10 Help	43
2.2.11 IBM Support Assistant	44
2.3 Mail	45
2.3.1 Action bar	45
2.3.2 Display menu	46
2.3.3 Horizontal or vertical preview	46
2.3.4 Mail threads	47
2.3.5 Conversations view	48
2.3.6 Mail header	49
2.3.7 Mail addressing	49
2.3.8 Sort recipient lists	50
2.3.9 Multilevel undo	50
2.3.10 Instant spell checking	51
2.3.11 Document selection	51
2.3.12 Collaboration history	52
2.3.13 Message recall	53

2.4 Improved Out of Office	54
2.5 Calendar	55
2.5.1 View navigation	56
2.5.2 Action bar	56
2.5.3 Display of all-day events	56
2.5.4 Manage new invites from your calendar view	57
2.5.5 Show cancelled invitations on your calendar	58
2.5.6 Check schedule	59
2.5.7 Locate free time for subset of invitee list	59
2.6 Contacts	60
2.6.1 Contact form	60
2.6.2 Business card view	63
2.6.3 Contact delegation	64
2.6.4 Recent Contacts	65
2.7 Lotus Symphony	65
2.7.1 Launching Lotus Symphony editors	66
2.7.2 Presentations	68
2.7.3 Spreadsheets	69
2.7.4 Documents	70
2.8 Sidebar plug-ins	71
2.9 Sametime Contacts	74
2.10 Activities	75
2.10.1 Overview of Activities with the Lotus Notes 8 client	76
2.10.2 Working with Activities from Lotus Notes 8 client	77
2.10.3 Working with activity content from Lotus Notes 8 client	80
2.10.4 Searching	82
2.10.5 Mail notifications and subscriptions	82
2.11 Lotus Domino Web Access	83
2.11.1 User interface	83
2.11.2 Mail enhancements	84
2.11.3 Calendar enhancements	84
2.11.4 Personal Information Management enhancements	85
2.12 Lotus Notes 8 basic configuration	86
Chapter 3. Changes for the administrator	87
3.1 Introduction	88
3.2 Improved messaging	88
3.2.1 Message recall	88
3.2.2 Enhanced Out of Office service	90
3.2.3 Mail threads	91
3.2.4 Inbox cleanup	91
3.2.5 Mail management	92
3.3 Lotus Notes client administration	94
3.3.1 Managing Lotus Notes 8 client installations	95
3.3.2 Policy management enhancements	98
3.3.3 Database redirect	103
3.4 Lotus Domino server administration	104
3.4.1 Lotus Domino domain monitoring enhancements	104
3.4.2 Bookmarks for Web administration servers	109
3.5 Improved efficiency and performance	110
3.5.1 Design note compression	110
3.5.2 Streaming cluster replication	110
3.5.3 Improving server availability in a cluster	111

3.5.4	Administration process improvements	111
3.5.5	Prevent simple search	113
3.5.6	Deferred sort index creation	114
3.5.7	Agent design update enhancements	114
3.6	Directory	115
3.6.1	Lotus Domino 8 Directory	115
3.6.2	IBM Tivoli Directory Integrator	117
3.7	Security features	118
3.7.1	Internet password lockout	118
3.7.2	Certifier keys and key rollover	119
3.7.3	ID file recovery APIs	120
3.7.4	Certificate revocation checking through OCSP	120
3.7.5	Single sign-on using LtpaToken2	120
3.8	Integration with other IBM products	121
3.8.1	Lotus Domino and DB2	121
3.8.2	Lotus Domino and WebSphere Portal integration	123
3.8.3	Lotus Domino 8 integration with Tivoli Enterprise Console	127
Chapter 4.	Changes for the application developer	129
4.1	Lotus Notes and Domino applications	130
4.1.1	More control over right mouse menu actions	130
4.1.2	Bytes column type	131
4.1.3	Extend to use available window width	131
4.1.4	Deferred sort index creation	131
4.1.5	Advanced application options	132
4.1.6	Thumbnail support	133
4.1.7	Programming language additions	133
4.1.8	On server start agents	135
4.1.9	Scheduled agent enhancement	135
4.1.10	Lotus Domino XML enhancements	136
4.2	Composite applications	137
4.2.1	Example of a composite application	138
4.2.2	Building composite application components	140
4.2.3	Assembling and wiring composite application	145
4.2.4	Additional design element options for composite applications	150
4.3	Extending the Lotus Notes 8 Client	154
4.4	Web service consumer applications	155
4.4.1	Creating a Web service enabled script library	155
4.4.2	Incorporating a script library in the application	157
4.4.3	Using the script library functions in the application	158
4.4.4	Running the application	159
4.5	Enhancements for Web service provider applications	160
4.5.1	Changes to default Web Service design properties	160
4.5.2	Web service preview	160
4.5.3	Warn if WSDL interface is modified	161
4.6	Lotus Domino and DB2 integration	161
4.6.1	Full support for the DB2 data store	163
4.6.2	Supported platforms	163
4.6.3	SQL updates, inserts, deletes are transactional	163
4.6.4	New columns for DB2 access views	164
4.6.5	Improved user mapping	164

Appendix A. Lotus Notes 8 client feature requirements	165
Appendix B. Lotus Domino 8 server feature requirements	169
Appendix C. Lotus Domino Web Access Client comparisons	175
Lotus Notes and Domino Web Access Client comparison	175
Mail features comparison	175
Calendar features comparison	181
To Do features comparison.	184
Contacts features comparison	184
Other features comparison	185
Related publications	187
IBM Redbooks publications	187
Online resources	187
How to get IBM Redbooks publications	188
Help from IBM	188

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Preface

With Lotus® Notes® and Domino® 8, world class business e-mail and collaboration take an exciting step forward, offering new approaches to enhance efficiency and creativity, while extending the value of current investments. This IBM® Redpaper will guide you through all the newly released innovative and open features of Notes and Domino 8. It is a must-read for any existing or potential user of Lotus Notes and Domino, from the casual user to the administrator or application developer to line of business executive.

The team that wrote this paper

This paper was produced by a team of specialists from around the world working at the International Technical Support Organization, Cambridge, Massachusetts.

Philip Monson is a Project Leader at the ITSO Lotus Center in Cambridge MA. Phil has been with Lotus and IBM for 17 years, joining the company when the early versions of Notes were rolled out for internal use. He has served in management, technical, and consulting roles in the IT and Sales and Development organizations.

Karen Brent has worked for Lotus and IBM in the United Kingdom for eight years, initially within the Lotus services organization, where she assisted customers in designing, deploying, and managing Lotus Notes and Domino architectures. Currently, she is a Lotus Early Program Manager on the BetaWorks™ team, where she supports beta customers in deploying beta and early software, provides the development teams with feedback, and contributes to early enablement activities for the technical sales and services teams. She has worked with Lotus Notes and Domino since version 2, but she is continually finding out something new about the product or the innovative ways in which it is used by customers.

Joanne Mindzora is a Worldwide Product Marketing Manager for IBM Lotus Notes and Domino software. She is also an IBM Certified I/T Specialist in the Lotus software discipline, as well as an IBM Certified Application Developer for Lotus Notes and Domino 6/6.5. Having focused on Lotus software for 10 of her nearly 30 years with IBM, Joanne is currently responsible for marketing collateral and Web content for Lotus Notes and Domino. She is also known for her technical leadership in the 1998 launch of Lotus Domino for AS/400®, and for authoring several IBM Redbooks® publications, white papers, and articles about Lotus Domino on IBM systems.

Thanks to the following people for their contributions to this project:

- ▶ Dwight Morse, Lotus Notes Product Manager, IBM Software Group
- ▶ Rob Ingram, Lotus Domino Product Manager, IBM Software Group
- ▶ Mark Jourdain, Lotus Notes and Domino Application Development Product Manager, IBM Software Group
- ▶ The Lotus Notes and Domino development team

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Introduction

IBM Lotus Notes and Domino software have a proven record of helping companies improve collaboration and streamline business processes. With Lotus Notes and Domino 8, world class business e-mail and collaboration take an exciting step forward - offering new approaches to enhance efficiency and creativity, while extending the value of current investments.

Use this guide to learn about new and improved capabilities of Lotus Notes and Domino 8 and to help you get started with this innovative release. This guide contains the following chapters:

- ▶ Chapter 1 gives a *high-level executive overview* of the business value of Lotus Notes and Domino 8, followed by tables summarizing the new capabilities.
- ▶ Chapter 2 takes the *business user* on a tour of the Lotus Notes 8 client. With the fresh, intuitive look and feel of Lotus Notes 8, your inbox becomes a high performance workplace, bringing the tools and information together in one place.
- ▶ For the *IT manager and administrator*, Chapter 3 describes Lotus Domino 8 server enhancements designed to help improve efficiency and performance and to extend platform versatility. Lotus Domino 8 gives you new and enhanced tools to manage your environment and offers options to empower your users where appropriate.
- ▶ Chapter 4 is for the *application developer*. You can use IBM Lotus Domino Designer 8 or Eclipse-based tools to build reusable components for composite applications. Your applications can consume Web services hosted on other systems. The open application infrastructure of Lotus Notes and Domino 8 software helps support business agility, improve user effectiveness, and extend your IT investments.

1.1 Overview

Lotus Notes and Domino software has repeatedly delivered forward-looking capabilities to empower business people to be more effective, responsive, and innovative in their daily work. Much more than feature enhancements to mail and calendar, Lotus Notes and Domino 8 is the next step in a rich evolution of the software that demonstrates IBM's commitment to business users across the spectrum.

With an open, collaborative work environment, Lotus Notes and Domino 8 takes business communication and collaboration to new heights, while continuing to build on the value of current investments. Familiar yet powerful capabilities, in a comfortable, clean new look that users admire, are designed to give you the tools and information to conduct business all from the same page.

Let us consider a business scenario in a fictitious company that has recently implemented Lotus Notes and Domino 8.

Vijay, the vice president of sales, gains the knowledge he needs to make better decisions. The most up-to-date information from multiple sources is displayed on one page, giving him all the information at-a-glance.

In Vijay's mind, Jose, the application developer on the company's IT staff who built this executive dashboard just for him, is a hero. Jose smiles to himself because he built Vijay's application in little time. He now spends his time creatively building applications, rather than becoming ensnarled in mundane, time-consuming, or complex coding.

Using the *composite application* capabilities of Lotus Notes and Domino 8, Jose builds reusable application components, and mixes and matches them in ways that are customized for each of his top executives. Jose has the flexibility to extend business logic from existing Lotus Notes applications or to work with components that are built using open standards-based tools. He can rapidly meet the business needs of all of his users by giving them easy access to multiple people, information sources, and applications through an easy to use composite user experience in record time.

As marketing director, Mei knows that time is money. She wants to get her new product messages in front of potential customers before her competitors have time to react. In the past, Mei spent much of her time tracking down the status of the various aspects of her go-to-market plan, each of them owned by a different member of her team.

Now, using the *activity-centric computing* features enabled by Lotus Notes and Domino 8 with an optional Activities server (part of Lotus Connections), Mei and her direct reports have a shared space side-by-side with their e-mail for each project or *activity*. The content of the go-to-market activity dynamically changes on Mei's window as each task leader adds his or her campaign presentations, draft press releases, and channel readiness plans to the activity.

Mei and her team can even share side conversations related to the project. They can drag and drop pertinent e-mail messages from their inboxes. They can save the transcript of instant messaging sessions to the activity. With Lotus Notes and Domino 8, Mei is literally on the same page with all the members of her team.

Samantha has responsibility for the product marketing collateral on Mei's team. To effectively communicate the new product's competitive advantages to potential customers, Samantha gathers information from many sources. She must be proactive and timely, motivated by Mei's objectives for the new product.

The nature of Samantha's job requires her to display a professional image and consistently produce high quality, accurate work under deadline. Taking advantage of the enhanced mail, calendar, and overall user interface of Lotus Notes 8, Samantha does not spend valuable time searching for an elusive e-mail or switching applications to find information and people.

For instance, a Lotus Notes 8 option lets Samantha choose to display her inbox by conversation instead of a list of individual messages. Despite the dozens of new messages Samantha has received, the Lotus Notes *mail thread* capability organizes all of the e-mails related to a particular subject into a single entry in her inbox.

Samantha can collaborate with her colleagues and easily work with e-mail, calendars, applications, and news, all from a single page. Side-by-side with her e-mail on one clean, organized page, Samantha can easily:

- ▶ Work with today's appointments, meetings, and to-dos at-a-glance.
- ▶ Schedule meetings with the marketing intelligence staff to understand the results of their findings and build marketing messages based on them.
- ▶ Keep abreast of the latest competitive and industry news, using the news feed reader supplied with Lotus Notes 8.
- ▶ Collaborate with the product management and sales teams using integrated instant messaging, helping to ensure that her collateral fully supports the company's business objectives.
- ▶ Participate in the go-to-market project activity with her teammates in Mei's department.

Lotus Notes 8 is built on top of Lotus Expeditor which, in turn, is built on the Eclipse Rich Client Platform (RCP). This means that you can easily plug in capabilities to the sidebar without using complex application programming interfaces. For example, the activities, integrated instant messaging, and news feeds that Samantha uses to do her job are all Eclipse *plug-ins*.

Using *server managed provisioning*, these plug-ins can be automatically deployed from the Lotus Domino 8 server to Lotus Notes 8 user workstations. Lotus Notes 8 allows you to mix and match capabilities to address specific business needs in the context of the user's role.

From the same page that Samantha has been using all along, she can access office productivity tools to create her documents, presentations, and spreadsheets. These tools are supplied with Lotus Notes 8 at no additional charge and are based on open standards. This means that Samantha can share her brochure draft with both Pierre in product management, who runs Lotus Notes 8 on a Linux® workstation, and with Carolyn in sales, who uses Microsoft® Office software, to solicit their feedback.

For the brochure review, Samantha may choose to set up an activity like the one Mei uses to manage the overall go-to-market project. This way, Samantha can make the draft document available in one place for Pierre, Carolyn, and others who need to collaborate on it. By using an activity instead of e-mail, Samantha can easily see everyone's comments and ideas together on the same page.

George, the IT director, is proud that Samantha can set up an activity by herself in a matter of minutes, with immediate benefit to a cross-functional team. He feels that he can empower his users. Now that the company has implemented Lotus Notes and Domino 8 and an Activities server, George's staff might receive fewer calls to help set up team rooms to manage ad hoc projects.

Samantha can simply click a button marked “New activity”, give it a name, and select the people she wants to include. Pierre and Carolyn automatically receive an e-mail message from Samantha that invites them to participate by simply clicking a link.

To create an activity, Samantha does not worry about technical details. Ling, an administrator on George’s team, can automatically populate the Activities server settings for her workstation. He can do this using one of the many enhanced *policy management* capabilities of Lotus Domino 8.

Some of Samantha’s teammates in other departments have not yet upgraded to Lotus Notes 8, and some are not using Lotus Notes at all. For instance, Roger likes Lotus Domino Web Access, Friedrich is running Lotus Notes 7, and Garrett uses Microsoft Outlook® software. When they receive the link to the activity, they can click to participate using a supported Web browser.

Samantha is using the full complement of Lotus Notes 8 capabilities to do her job. However, not everyone in the company requires every feature. Using the server managed provisioning capabilities of Lotus Domino 8 administration, Ling gains more control over which users have access to which capabilities. Because he can manage this from a central site, Ling makes less trips to user locations to roll out new features and applications.

From an IT management perspective, George appreciates the fact that Lotus Notes and Domino 8 gives him a way to introduce new capabilities in stages. He can provide his users with enhanced tools without the disruption and cost of major changes or retraining. And because Lotus Notes and Domino 8 reduces the time that his staff spends performing mundane tasks, George can focus on more strategic initiatives that his business executives want.

The bottom line is that Lotus Notes and Domino 8 is all about business flexibility. By easily combining information and capabilities from one or more sources, Lotus Notes and Domino 8 can provide significant business value in many ways:

- ▶ Helps improve individual and organizational effectiveness by bringing the tools for collaboration into the business processes and applications your employees use every day.
- ▶ Enables you to extend your existing applications with increasing degrees of flexibility and agility.
- ▶ Encourages the creation of reusable components, helping you to respond quickly and cost effectively to emerging business requirements with applications that are easier to build.
- ▶ Enables you to potentially reduce the costs associated with IT services and speed the time to deployment for new IT initiatives.

Lotus Notes and Domino 8 also offers the opportunity to use a variety of hardware and software platforms that your company already has. You can leverage what your business has already built, both applications and infrastructure.

IBM Lotus Notes and Domino 8 can help all your employees to be on the same page.

1.2 What's new overall

IBM Lotus Notes and Domino 8 software delivers innovations in business collaboration, while continuing to enhance core capabilities and to support your existing applications. Lotus software provides new capabilities that enable your employees to collaborate in the context of their day-to-day business.

As you read on, you will learn about many new features designed for the user, the administrator, and the application developer, respectively. You will see that basic themes underlie Lotus Notes and Domino 8 software overall.

1.2.1 Open application infrastructure

The first thing you will notice about Lotus Notes 8 is the new and enhanced, yet familiar user experience. Using open standards-based Eclipse technology, the Lotus Notes 8 interface is designed to:

- ▶ Let you work with diverse people, information, and applications from a single page.
- ▶ Help you reduce inbox clutter.
- ▶ Enable activity-centric computing, bringing together all related components of work into a common location.
- ▶ Provide an open platform for plugging in new capabilities driven by business needs.

Lotus Notes and Domino 8 participates in a service-oriented architecture (SOA) to a greater degree than previous releases. With support for composite applications and the ability to natively consume Web services, Lotus Notes and Domino 8 helps build contextual collaboration into your business applications. It helps exploit your IT strategy and extends current investments by combining heterogeneous technologies.

In addition, the open application architecture of Lotus Notes and Domino 8 allows for server-managed provisioning. This capability lets you centrally manage the deployment of Lotus Notes client features and composite applications.

1.2.2 Improved mail capabilities

This new version contains a few key features and enhancements to mail:

- ▶ Ability to recall certain e-mail messages you sent in error.
- ▶ Enhanced out of office capabilities.
- ▶ Flexible and resilient mail threads that extend beyond the inbox and include Internet mail messages.

1.2.3 Improved efficiency and performance

Several enhancements to Lotus Notes and Domino 8 software improve system performance. These include streaming replication for Lotus Domino clusters and a variety of database and I/O improvements.

New and improved administration features shorten the elapsed time to complete the processing of requests, such as user renames. The new mail router-based Out of Office service speeds the delivery of absence notifications.

1.2.4 Greater versatility

Lotus Notes and Domino software is well-known for supporting a wide variety of operating system platforms. It continues to provide hardware and software platform flexibility and choice and offers more versatility for integration with complementary software.

For example, Lotus Domino 8 server software runs on Red Hat Enterprise Linux 5 and the Lotus Notes 8 client runs on RedHat Enterprise Linux 5 Desktop.

The Lotus Notes 8 client offers a consistent installation process for both Microsoft Windows® operating system users and Linux desktop users. Enhancements in Lotus Notes 8 for Linux include integrated instant messaging and presence awareness, the Lotus Notes smarticons toolbar, and support for color printing.

Note: The composite application editor feature of Lotus Notes 8 is supported on select Microsoft Windows and Linux operating systems. However, Lotus Domino Designer is supported only for select Microsoft Windows workstations.

Lotus Notes 8 support for Macintosh workstations is expected at a later date.

In addition, Lotus Notes/Domino 8 brings greater similarity between Lotus Notes and Lotus Domino Web Access client options, for both the interface and the features.

Lotus Domino 8 offers new capabilities to allow easier interoperability with other software. These include:

- ▶ Full support for the option to use IBM DB2® software as a data store for Lotus Domino 8 on select Microsoft Windows, IBM AIX® 5L™, and Linux platforms.
- ▶ Full support for the DB2 access view and query view design elements of Lotus Domino Designer 8.
- ▶ Incorporation of IBM Tivoli® Directory Integrator software capabilities into Lotus Domino 8.
- ▶ Improved integration with IBM Tivoli Enterprise™ Console, IBM WebSphere® Application Server, and WebSphere Portal software.

1.3 What's new for the Lotus Notes user

Lotus Notes and Domino 8 is much more than e-mail. It was designed for the business user, to help you work more effectively and have greater impact on your business.

The user interface of Lotus Notes 8 allows easy access so you can get your work done quickly and with high quality. With an emphasis on minimizing clutter, Lotus Notes 8 makes it easier to find the information you need.

The following tables highlight many new Lotus Notes 8 features and their benefits. For more information about these features, see Chapter 2, "Changes for the user" on page 31.

Table 1-1 User interface

Feature	Description	Benefit
Tutorial page	An initial page presented to the user after the first installation or upgrade to Lotus Notes 8. This page points out the new functional areas in the window: the sidebar, the Open list, and the search center.	Assists users in locating key information for operating their Lotus Notes client.
Home page	Updated Welcome page, which by default, gives access to mail, calendar, contacts applications, and productivity tools. You can customize them to meet user requirements. See section 2.2.1, "Home page" on page 34 for more information.	Allows users to have their key business tools immediately available
Unified preferences	Single location to set almost all Lotus Notes preferences. See section 2.2.6, "Unified preferences" on page 41 for more information.	Personalize your work environment more quickly and easily.
Display menu	New drop-down menu for Lotus Notes mail and calendar view options. See section 2.3.2, "Display menu" on page 46 for more information.	Quickly and easily toggle view options on and off from a convenient location on the window.
Open list	New navigation button conveniently located in the top-left corner of the user interface, complete with a facility to search the list. See section 2.2.2, "Open list" on page 36 for more information.	Easily find and access your Lotus Notes applications, Web browser bookmarks, productivity tools, and recently used documents, all from a single place.

Feature	Description	Benefit
Window navigation options	<p>New options that allow alternatives to displaying each open Lotus Notes window in a tab:</p> <ul style="list-style-type: none"> ▶ Option to display each open document in its own window ▶ Group window tabs, option to use a single tab to organize the open documents that are from the same database view <p>See section 2.2.4, "Window management and navigation" on page 38 for more information.</p>	<p>Navigate your workspace more easily.</p> <p>Choose the way you prefer to work.</p>
Thumbnail view	<p>Icon to display open windows as thumbnail graphics.</p> <p>This feature allows simple graphical navigation for users who prefer visual to textual representation.</p> <p>See section 2.2.5, "Thumbnails" on page 39 for more information.</p>	<p>Easy and quick access to your work in process.</p>
Search center	<p>New search area in the upper-right corner of the user interface.</p> <p>This feature allows consolidated search of mail, calendar, personal contacts, company directory, databases, files, and the Web.</p> <p>See section 2.2.9, "Search center" on page 43 for more information.</p>	<p>Perform common search tasks from a single location.</p> <p>There is no need to leave your Lotus Notes client to search the Web or to use the Google Desktop searching software (if installed).</p>
Sidebar	<p>Rightmost column of the user interface in which application plug-ins appear.</p> <p>Four plug-ins are supplied with Lotus Notes 8:</p> <ul style="list-style-type: none"> ▶ Activities ▶ IBM Lotus Sametime® software contacts ▶ Day at-a-glance ▶ Feeds (RSS reader plug-in) <p>See section 2.8, "Sidebar plug-ins" on page 71 for more information.</p>	<p>Easily access Activities (if used), instant messaging, presence awareness, calendar, and news feeds - side-by-side with your e-mail.</p> <p>Your company can add plug-ins to meet specific business requirements.</p>

Feature	Description	Benefit
Improved action bars	<p>Easier to use interface in response to user feedback:</p> <ul style="list-style-type: none"> ▶ Description of a button or smarticon displays when your cursor hovers over it. ▶ Action bar lets you perform the most common actions using a single mouse click and easily access other options. <p>See section 2.3.1, "Action bar" on page 45 for more information.</p>	Get your work done more quickly and easily.
Enhanced context-sensitive help	<p>Display of context-sensitive help side-by-side with the work.</p> <p>See section 2.2.10, "Help" on page 43 for more information.</p>	Follow the instructions while having the help visible on the page.
Advanced menus	<p>Switch between showing and suppressing advanced menu options.</p> <p>See section 2.2.7, "Advanced Menu option" on page 41 for more information.</p>	Simplifies menus for users only requiring the basic menu options.
Make available offline	<p>Single window for user to supply all information required to use an application when not connected to the Lotus Domino server.</p> <p>See section 2.2.8, "Making applications available offline" on page 42 for more information.</p>	Simplifies the process for creating a local replica of an application.

Table 1-2 Editor (applies to the body of an e-mail and rich text fields in any Lotus Notes database)

Feature	Description	Benefit
Instant spell check	<p>Option to allow Lotus Notes 8 to verify your spelling as you type.</p> <p>See section 2.3.10, "Instant spell checking" on page 51 for more information.</p>	Increase the likelihood of correct spelling in your memos and Lotus Notes documents. Help present a professional image with high quality, accurate work.
Multilevel undo	<p>Retrace your steps through more than 50 levels of edits.</p> <p>See section 2.3.9, "Multilevel undo" on page 50 for more information.</p>	Gain greater flexibility in creating e-mail messages and Lotus Notes documents.
Improved printing of tabbed tables	<p>Print tab labels and to print each tab independently.</p>	Easily use hardcopy of information that you can store in tabbed tables (for example, an intra-company newsletter).

Table 1-3 Mail

Feature	Description	Benefit
Vertical preview option	<p>Option to preview a document in a vertical pane to the right of the view navigation.</p> <p>See section 2.3.3, "Horizontal or vertical preview" on page 46 for more information.</p>	Choose the way you prefer to work.
Improved mail threads	<p>A mail thread is a conversation about a particular topic, initiated by an e-mail message.</p> <p>Enhancements in Lotus Notes and Domino 8:</p> <ul style="list-style-type: none"> ▶ Option to see mail threads at-a-glance from the inbox view. ▶ Mail threads span the entire mail file, not just the inbox. ▶ Resilience: If an e-mail message in the thread is deleted, the thread is preserved. ▶ Threads can include Internet mail messages. ▶ Delete or move an entire mail thread in a single action. <p>See section 2.3.4, "Mail threads" on page 47 for more information.</p>	<p>Easily see and manage related e-mail messages together in a group, including e-mail from Internet users outside the company.</p> <p>Work with a smaller inbox view.</p>
Message recall	<p>Option to retract an e-mail message that you sent to a recipient using a Lotus Domino server.</p> <p>See section 2.3.13, "Message recall" on page 53 for more information</p>	<p>Easily recover from common mistakes, such as:</p> <ul style="list-style-type: none"> ▶ You misinterpreted the question your reply was meant to answer. ▶ You forgot to include an important detail or a file attachment. ▶ You accidentally sent the e-mail to the wrong John Smith in your company. ▶ After sending an e-mail as a "reply to all," you do not want to share some of its content with all the people on the distribution list.
Enhanced Out of Office capabilities	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ Easier to use interface. ▶ Option to specify hours as well as dates. ▶ Automatically disabled when you return. ▶ New server processing option to speed delivery of absence notifications. ▶ Ability for delegates to enable or disable Out of Office for you. <p>See section 2.4, "Improved Out of Office" on page 54 for more information.</p>	<p>Gain greater flexibility and speed in letting your colleagues know that you are away from the office.</p> <p>Reduce the need to perform tasks that are routine and might be easily forgotten.</p>

Feature	Description	Benefit
Customizable mail header	Select which options and information appear by default in your mail header. See section 2.3.6, "Mail header" on page 49 for more information.	Display only what is most useful to you when you create an e-mail message.
Sort recipient list	Sort the To or cc: fields of any e-mail alphabetically. See section 2.3.8, "Sort recipient lists" on page 50 for more information.	Quickly identify whether someone is in the recipient list of an e-mail.
Mark subject confidential	New check box to preface the subject of an e-mail message with "**Confidential:". See section 2.3.6, "Mail header" on page 49 for more information.	Mark confidential e-mails in a consistent and easily recognized format.

Table 1-4 Calendar

Feature	Description	Benefit
More consistent and intuitive navigation	Enhancements are: <ul style="list-style-type: none"> ▶ Access views from the left navigator. ▶ Action bar enhanced for consistency with mail. See section 2.5.1, "View navigation" on page 56 and 2.5.2, "Action bar" on page 56 for more information.	Get your work done more quickly and easily.
Manage new calendar invites from your calendar view	Option to display unprocessed invitations side-by-side with accepted calendar entries. See section 2.5.4, "Manage new invites from your calendar view" on page 57 for more information.	See overlaps in your schedule at-a-glance before deciding which meetings to accept.
Improved display of events	Modified display of all day events to visually span the entire day. See section 2.5.3, "Display of all-day events" on page 56 for more information.	See at-a-glance that every time slot in the day is already scheduled.
Check your calendar while you are scheduling a meeting	Option to show your schedule for the target meeting date while you are creating a meeting notice. See section 2.5.6, "Check schedule" on page 59 for more information.	Easily reduce the likelihood of inadvertent scheduling conflicts.

Feature	Description	Benefit
Options to manage meeting cancellations	Option to have cancelled meetings identified with visual cues on your calendar. See section 2.5.5, "Show cancelled invitations on your calendar" on page 58 for more information.	Choose the way you prefer to work. Can use in conjunction with unprocessed calendar entries to help you make scheduling decisions about which meetings to accept.
More flexible free time search	Locate a mutually free time for a dynamic subset of the invitee list. See section 2.5.7, "Locate free time for subset of invitee list" on page 59 for more information.	Check free time for different groupings of invitees when there is no mutually convenient time for everyone.

Table 1-5 *Contacts (formerly called personal address book)*

Feature	Description	Benefit
Flexible Contact form	Enhancements are: <ul style="list-style-type: none"> ▶ More fields available to store information. ▶ Customizable field headings. ▶ Blank fields only appear in edit mode. ▶ Select address format. See section 2.6.1, "Contact form" on page 60 for more information.	Gain greater flexibility for managing information about your business contacts.
Business card view	Option to display contacts in a view formatted as columns of business cards. See section 2.6.2, "Business card view" on page 63 for more information.	Choose the way you prefer to work. Gain greater flexibility for at-a-glance viewing of your business contacts.
Thumbnail support	Include a person's photograph in a Contact document. See section 2.6.1, "Contact form" on page 60 for more information.	For each colleague, see a picture on the same page with other contact information.
Recent Contacts	A locally held and dynamically created list of all the people with whom you have been collaborating. You can synchronize with your Lotus Domino server directory so that you have all up-to-date contact details (for example, phone numbers and e-mail addresses) available even when offline. Also use as the source for the drop-down menu when you are addressing e-mails. See section 2.6.4, "Recent Contacts" on page 65 for more information.	Quick and easy access to the contact information for people with whom you have been collaborating most recently.

Feature	Description	Benefit
Vertical preview option	As with e-mail, option to preview a document in a vertical pane to the right of the view navigation. See section 2.3.3, "Horizontal or vertical preview" on page 46 for more information.	Choose the way you prefer to work.
Synchronize Contacts	Synchronize contact information from your local contacts database with your mail file. See section 2.6.3, "Contact delegation" on page 64 for more information.	Simple method for synchronizing contact information between the Lotus Notes client and Domino Web Access. Allows users to delegate contacts to colleagues in the same way that mail and calendar features are delegated.

Table 1-6 Effectiveness

Feature	Description	Benefit
Support for common operating system keyboard and mouse-click shortcuts and commands	Support for a variety of shortcuts, such as the familiar control key and mouse-click combination to select more than one document from a view. See section 2.3.11, "Document selection" on page 51 for more information.	Get your work done more quickly and easily.
Collaboration History	For names, a new right-click menu option that displays a list of your interactions with the selected person. See section 2.3.12, "Collaboration history" on page 52 for more information.	Minimize the need to remember which tool was used for a human interaction. In one place, see all the collaborations with a particular person, including e-mails, meetings, and instant message history.
Intelligent type-ahead	The list of names in response to type-ahead addressing is sorted by frequency of use rather than alphabetically. See section 2.3.7, "Mail addressing" on page 49 for more information.	Quickly find the people with whom you collaborate most often.
Lotus Symphony	Suite of open standards-based office productivity tools for working with word processing documents, presentations and spreadsheets - included at no additional charge. For more information, see section 2.7, "Lotus Symphony" on page 65 for more information	Create, edit, and collaborate on a wide variety of document, presentation, and spreadsheet file types - without separately licensing office productivity software.

Table 1-7 Collaboration

Feature	Description	Benefit
Enhanced instant messaging integration	<p>Sidebar plug-in based on the Lotus Sametime 7.5 interface.</p> <p>Advanced functionality, including rich text, spell check, emoticons, automatic instant message history, and more.</p> <p>For more information, see section 2.9, "Sametime Contacts" on page 74 for more information.</p>	<p>Quickly and easily collaborate with colleagues in real time, side-by-side with your e-mail.</p> <p>More easily refer to the text of online conversations with colleagues.</p>
Activities	<p>Optional sidebar plug-in based on the activity-centric computing capabilities of IBM Lotus Connections software.</p> <p>For more information, see section 2.10, "Activities" on page 75 for more information.</p>	<p>Quickly and easily create teamwork areas to organize and share information to collaborate on a project, without the involvement of the IT staff.</p>
Ability to add custom sidebar/toolbar plug-ins	<p>Extend the Lotus Notes 8 client by creating Eclipse plug-ins and deploying them using the provisioning included in Lotus Expeditor.</p> <p>For more information see section 4.3, "Extending the Lotus Notes 8 Client" on page 154</p>	<p>Customize Lotus Notes 8 client to meet your specific business needs.</p>

1.4 What's new for the Lotus Domino Web Access user

With Lotus Domino 8, the Web client interface and function set of IBM Lotus Domino Web Access software is enhanced to provide closer parity with the Lotus Notes 8 client. In fact, Lotus Domino Web Access 8 users and Lotus Notes 8 users can share a single, merged mail template (MAIL8.NTF).

Also, enhancements to the server and client software are designed to allow Lotus Domino Web Access 8 users to experience better performance than previous releases.

The following tables highlight many new Lotus Domino Web Access 8 features and their benefits. For more information about these features, see section 2.11, "Lotus Domino Web Access" on page 83.

Table 1-8 User interface

Feature	Description	Benefit
Modified look and feel	Fonts, color scheme, and use of icons more consistent with Lotus Notes 8 and with WebSphere Portal.	Familiarity with the interface when using different client types and server platforms.
New preview pane	<ul style="list-style-type: none"> ▶ Preview the text of the selected document in a view. ▶ Option to display the preview either vertically to the right of the view navigation or in a horizontal pane below the view. 	Quickly scan the information in your inbox or your business contacts.
Integrated instant messaging contact list	<ul style="list-style-type: none"> ▶ Instant messaging contact list available from drop-down menu next to your availability status. ▶ Automatic refresh of presence awareness status icons. 	Easily see who is available for online collaboration.

Table 1-9 Functionality

Feature	Description	Benefit
Enhanced Out of Office capabilities	Enhancements are: <ul style="list-style-type: none"> ▶ Easier to use interface. ▶ Option to specify hours as well as dates. ▶ Automatically disabled when you return. ▶ New server processing option to speed delivery of absence notifications. 	Gain greater flexibility and speed in letting your colleagues know that you are away from the office. Reduce the need to perform routine and easily forgotten steps.
Improved mail threads	Enhancements are: <ul style="list-style-type: none"> ▶ Mail threads span the entire mail file, not just the inbox. ▶ Resilience: If an e-mail message in the thread is deleted, the thread is preserved. ▶ Threads can include Internet mail messages. 	Easily see and manage related e-mail messages together in a group, including e-mail from Internet users outside the company.

Feature	Description	Benefit
Customizable mail header	Select which options and information appear by default in your mail header.	Display only what is most useful to you when you create an e-mail message.
Support for dynamic view column updates	Option to specify a column as dynamic so that its width is automatically adjusted.	See more of the contents of a particular column.
Feed-enabled mail file	Publish your inbox through a Really Simple Syndication (RSS) or Atom feed by clicking an icon.	Gain the flexibility to view your mail from Internet, non-Lotus clients when you are away from your usual work environment. Easily allow access to shared mail boxes.
Calendar filters	Option to display your calendar entries by chairperson, by type (meetings, appointments, reminders, events, private entries), or by invitee status (confirmed or tentatively accepted).	Choose to display your calendar invitations in the manner that best meets your needs at a given time.
Preferred rooms and resources	Designate a default room or resource for use when scheduling meetings.	Quickly schedule a meeting along with the conference room that is most convenient for you.
Improved calendar delegation	Authorized delegates to work with another person's calendar from within their own calendar.	Improve effectiveness of assistants who support one or more principals.
Improved contact management	Automatic bidirectional synchronization with Lotus Notes 8 mail, business contacts in the Lotus Notes 8 contacts database, and notebook entries from the Lotus Notes 8 journal.	When using Lotus Notes 8 in the office and Lotus Domino Web Access 8 when away, easily keep your work in sync.
Password management improvements for people who use both Lotus Notes and Domino Web Access	Easier management of changes to your Lotus Notes and Internet password. Keep your Internet password in sync with the password of your embedded Lotus Notes ID.	When using Lotus Notes 8 in the office and Lotus Domino Web Access 8 when away, easily keep your work in sync. If you use both Lotus Notes and Domino Web Access, just keep track of your Lotus Notes ID password. This new feature automatically keeps your Internet password in sync with the password in your embedded Lotus Notes ID. For administrators, this reduces the burden of user password management by eliminating separately managed and maintained Internet passwords.
Enhanced spell check engine and dictionary synchronization	Enhancements are: <ul style="list-style-type: none"> ▶ Multithreaded server spell check engine. ▶ Support for, and integration of, LanguageWare® libraries and dictionaries. ▶ Addition of spell check dictionary for German Reform language. 	Quickly check your spelling. Gain flexibility with support for additional spell check dictionaries.

1.5 What's new for the administrator

If you expected IBM Lotus Domino 8 software to provide server capabilities to complement the Lotus Notes 8 client innovations, you are correct. But this new version of the proven, security-rich IBM Lotus Domino server does more than that. Lotus Domino 8 takes centralized management and operational efficiency to a new level.

Lotus Domino 8 includes many new features and enhancements to automate mundane administrative tasks, enabling you to spend your time on more strategic IT initiatives. Lotus Domino 8 contains new and enhanced tools designed to minimize software deployment costs and maintain high availability and performance for your users.

The following tables highlight many new Lotus Domino 8 features and their benefits. For more information about these features, see Chapter 3, “Changes for the administrator” on page 87.

Table 1-10 Mail improvements

Feature	Description	Benefit
Configuration options for mail recall	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ Option to enable or disable the mail recall feature of Lotus Domino 8. ▶ Granular options for the use of mail recall if enabled. <p>See section 3.2.1, "Message recall" on page 88 for more information.</p>	Control the use of mail recall in your environment as appropriate for the needs of the business.
Configuration options for Out of Office service	<p>Option to implement the Out of Office service as a mail router service instead of a scheduled agent.</p> <p>See section 3.2.2, "Enhanced Out of Office service" on page 90 for more information.</p>	Minimize the elapsed time before users receive absence notifications after sending e-mail to a colleague who is out of the office.
Reverse path setting for forwarded messages	<p>Specify how the mail router handles delivery failure reports when e-mails are automatically forwarded by an action in a user mail rule.</p> <p>See "Reverse-path setting for forwarded messages" on page 93 for more information.</p>	Gain options that reduces inadvertent rejection of legitimate mail by some spam filters when automatic forwarding is enabled.
Error limit before a connection is terminated	<p>Option to specify the number of protocol errors that are returned for a session before terminating the connection.</p> <p>See "Error limit before a connection is terminated" on page 93 for more information.</p>	Gain more control over session behavior, particularly when blacklist rejections occur because these are protocol errors.
Reject ambiguous names/deny mail to groups	<p>Options to reject inbound SMTP mail that is sent to ambiguous names or to groups.</p> <p>See "Reject ambiguous names and deny mail to groups" on page 93 for more information.</p>	Gain more control over inbound Internet mail based on the directory policies you have in place.
Transfer and delivery delay reports	<p>Delay report distributed to the sender when an e-mail has been in the router's queue longer than a specified time.</p> <p>See "Transfer and delivery delay reports" on page 94 for more information.</p>	Automatically notify users when e-mails that they have sent are delayed.

Table 1-11 Lotus Notes client administration

Feature	Description	Benefit
Customizing Lotus Notes 8 client installation	<p>Pre-configure Lotus Notes 8 client installation options related to Eclipse features.</p> <p>See “Customizing initial Lotus Notes 8 client installations” on page 95 for more information.</p>	Allows administrators to tune the Eclipse component installation of Lotus Notes 8 clients.
Server-managed provisioning	<p>Use the Eclipse provisioning model to deploy Lotus Notes 8 client features and components.</p> <p>For more information about server managed provisioning, see “Using a Lotus Domino 8 server as a provisioning server” on page 97 for more information.</p>	Manage the deployment of Lotus Notes 8 client features, Eclipse components, and composite applications from a Lotus Domino 8 server.
Inbox cleanup	<p>Option to schedule a supplied agent to automatically remove documents that are older than a specified number of days from user inboxes.</p> <p>See section 3.2.4, “Inbox cleanup” on page 91 for more information.</p>	Potentially improve both Lotus Domino server and Lotus Notes client performance and make it easier for users to work within their mailbox quotas.
Policy management enhancements	<p>Apply the same parameter to all the available settings in the mail settings document or desktop settings document with a single click.</p> <p>Define and manage additional settings through policies:</p> <ul style="list-style-type: none"> ▶ Window navigation ▶ Replication settings ▶ Lotus Domino Web Access security settings ▶ Inbox cleanup ▶ Productivity tools ▶ Activities ▶ Administration ECLs <p>See section 3.3.2, “Policy management enhancements” on page 98 for more information.</p>	<p>Manage most of the settings for your users’ Lotus Notes 8 desktops and mail files from a central location.</p> <p>Choose to introduce certain new features gradually (or turn them off altogether) by controlling the options your users see and which settings they are permitted to change.</p>
Database redirect	<p>Automatically update client references to databases that have been relocated or deleted.</p> <p>See section 3.3.3, “Database redirect” on page 103 for more information.</p>	<p>Maximize database availability while simplifying administration.</p> <p>Reduce the occurrence of broken links that can impact user effectiveness in their jobs.</p>

Table 1-12 Lotus Domino 8 server administration

Feature	Description	Benefit
Enhancements to Lotus Domino domain monitoring	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ New probe subtypes for administration and directory probes. ▶ Button to choose from a list of common actions to resolve events. ▶ Option to set Lotus Domino domain monitoring database to open when the administrator client is started. ▶ Define and reuse probable cause, possible solution, and corrective action statements in multiple events. ▶ New role for special access to change corrective action text. <p>See section 3.4.1, "Lotus Domino domain monitoring enhancements" on page 104 for more information.</p>	<p>Reduce the number of steps to identify and resolve issues before they impact the business, potentially saving time and money.</p> <p>Gain more granular control of your environment.</p> <p>Simplify routine tasks.</p>
IBM support assistant	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ Integrated self-help application designed to help you identify, assess, and overcome many product difficulties without contacting IBM. ▶ Resources for automating the diagnostic process and submitting diagnostic to IBM when necessary. <p>See section 2.2.11, "IBM Support Assistant" on page 44 for more information.</p>	Speed the resolution of product challenges.
Bookmarks for Web administration servers	<p>Add the URL for the Web administration page of a non-Lotus Domino product.</p> <p>See section 3.4.2, "Bookmarks for Web administration servers" on page 109 for more information.</p>	Administer other IBM software (for example, Lotus Sametime or WebSphere Portal) or vendor products from within the Lotus Domino 8 administrator client.

Table 1-13 Improved efficiency and performance

Feature	Description	Benefit
Post request into target server database	<p>Change to the default operation of the AdminP task unless you choose to disable this feature through a NOTES.INI setting.</p> <p>Allows administration requests to be placed directly into the ADMIN4.NSF database on named destination servers that are directly connected to the source.</p> <p>See "Post request into target server database" on page 111 for more information.</p>	<p>Shorten the elapsed time to complete the processing of administration requests.</p> <p>Help reduce unnecessary server replication.</p>

Feature	Description	Benefit
Design note compression	<p>New database property to allow compression of database design.</p> <p>See section 3.5.1, "Design note compression" on page 110 for more information.</p>	Potentially reduce the I/O and space utilization associated with database design information.
Deferred sort index creation	<p>New database column property that updates the index on first use.</p> <p>See section 3.5.6, "Deferred sort index creation" on page 114 for more information.</p>	Opportunity to reduce system resources required for database indexing.
Streaming cluster replication	<p>Servers propagate events to cluster partners as they occur using in-memory information rather than reading from the disk.</p> <p>See section 3.5.2, "Streaming cluster replication" on page 110 for more information.</p>	Ensures clustered applications are synchronized as quickly as possible.
Improve server availability in a cluster	<p>Define an auxiliary network port for cluster replication.</p> <p>See section 3.5.3, "Improving server availability in a cluster" on page 111 for more information.</p>	Ensures efficient use of network resources for clustering servers
User rename improvements	<p>Generate a list that contains all the reader names and author names entries that are present in a database.</p> <p>The names list is stored with the database for the AdminP task to read. Only if the name to be changed is present in the list will AdminP proceed to search every note in the database for fields that need to be changed.</p> <p>See "User rename improvements" on page 112 for more information.</p>	Reduces the system resources needed to propagate a user name change across all design elements that refer to the original name.
Critical request scheduling	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ Override the default time interval for one or more types of administration requests. ▶ Assign special purpose threads to immediate requests and interval requests. <p>See "Critical request scheduling" on page 112 for more information.</p>	Gain more granular control over the elapsed time to process tasks that you designate as having high priority.

Feature	Description	Benefit
Option to prevent simple search	New database property to disable search for a database that does not have a full text index. See section 3.5.5, "Prevent simple search" on page 113 for more information.	Manage the use of search capabilities to balance server performance impact with business needs.
Agent design update enhancements	Design update can update an agent's design without having to disable the agent. See section 3.5.7, "Agent design update enhancements" on page 114 for more information.	Less manual intervention required for administrators when updating application designs.

Table 1-14 Directory

Feature	Description	Benefit
Integration of IBM Tivoli Directory Integrator capabilities	Limited use license for Tivoli software product. See section 3.6.2, "IBM Tivoli Directory Integrator" on page 117 for more information.	Synchronize identity data across various repositories throughout your organization.
Lotus Notes client version view	New view that lists the Lotus Notes versions deployed in your user community and which users are running each of them. See "Lotus Notes client version view" on page 115 for more information.	Easily determine which user workstations to upgrade and identify whether any users are running unsupported versions.
Authentication/authorization-only secondary directories	Option to specify that a particular secondary directory is used for authentication and authorization, but not for mail addressing. See "Authentication and authorization-only secondary directories" on page 115 for more information.	Provide opportunities to reduce unnecessary server workload, improve response time for mail lookups, and minimize the occurrence of ambiguous names.
Improved configuration for directory assistance LDAP directories	New buttons on the directory assistance form to choose from a list of likely field entries and validate the choices you make. See "Improved configuration for directory assistance LDAP directories" on page 116 for more information.	Reduce the likelihood of errors when configuring directory assistance.

Feature	Description	Benefit
Improved group membership expansion	<p>New Lightweight Directory Access Protocol (LDAP) attributes designed to allow a single search to identify a user's fully nested group membership.</p> <p>See "Improved group membership expansion" on page 117 for more information.</p>	Easily identify all the groups to which a user belongs, while using fewer network and system resources.

Table 1-15 Security features

Feature	Description	Benefit
Internet password lockout	<p>Server configuration option to set a threshold for HTTP authentication failures and lock out any user who fails to log in within the established threshold value.</p> <p>See section 3.7.1, "Internet password lockout" on page 118 for more information.</p>	Protect against brute force and dictionary attacks on user Internet accounts.
Support for longer encryption keys	<p>Support for 2048-bit encryption keys for user IDs and server IDs and 4096-bit keys for certifier IDs.</p> <p>See section 3.7.2, "Certifier keys and key rollover" on page 119 for more information.</p>	Protect against attempts to decipher encryption keys.
Certifier key rollover	<p>Key rollover is the process used to update the set of Lotus Notes public and private keys that is stored in an ID file.</p> <p>Extension of key rollover capability to certifier IDs, in addition to user and server IDs.</p> <p>See section 3.7.2, "Certifier keys and key rollover" on page 119 for more information.</p>	Update certifier IDs to take advantage of stronger encryption.
ID file recovery APIs	<p>New application programming interfaces allowing automation of the ID recovery process.</p> <p>See section 3.7.3, "ID file recovery APIs" on page 120 for more information.</p>	Enable the integration of ID file recovery with custom, enterprise-wide management systems.
Certificate revocation checking using online certificate status protocol (OCSP)	<p>New support for online certificate status protocol (OCSP), RFC 2560.</p> <p>See section 3.7.4, "Certificate revocation checking through OCSP" on page 120 for more information.</p>	Take advantage of additional security features for verifying S/MIME signatures and SSL certificates.

Feature	Description	Benefit
Single sign-on using LtpaToken2	<p>Ability to use LtpaToken2 format for single sign-on with IBM WebSphere Application Server software, versions 5.1.1 and later.</p> <p>See section 3.7.5, "Single sign-on using LtpaToken2" on page 120 for more information.</p>	Enable stronger encryption for single sign-on between Lotus Domino and WebSphere servers.

Table 1-16 Integration with other IBM products

Feature	Description	Benefit
Set a default DB2 user name	<p>Define a single DB2 user mapping for all Lotus Notes users needing a common level of access to a set of DB2 data.</p> <p>See "Set a default DB2 user name" on page 121 for more information.</p>	Minimize the time and effort to manage appropriate access control for the Lotus Domino and DB2 feature.
DB2 move container	<p>A DB2 container is a repository for one or more DB2-enabled Lotus Notes databases.</p> <p>This feature moves DB2 containers from one disk or volume to another to validate user connections and reconcile links to the data.</p> <p>See "DB2 move container" on page 122 for more information.</p>	<p>Control the amount of disk space that is used on a particular server by DB2-enabled Lotus Notes databases.</p> <p>Minimize disruption to users when needing to move data.</p>
Integration with IBM Tivoli Enterprise Console® software	<p>Server configuration option to forward events for monitoring with Tivoli Enterprise Console.</p> <p>See section 3.8.3, "Lotus Domino 8 integration with Tivoli Enterprise Console" on page 127 for more information.</p>	Manage Lotus Domino and other enterprise application events using a single monitoring interface.
Integration with IBM WebSphere Portal	<p>Several integration points are introduced:</p> <ul style="list-style-type: none"> ▶ Federated administration ▶ Domino-Portal integration wizard ▶ WebSphere Portal composite application support for Lotus Notes/Domino 8. <p>See section 3.8.2, "Lotus Domino and WebSphere Portal integration" on page 123 for more information.</p>	Simplify management and improve integration of Lotus Notes/Domino servers and clients with WebSphere Portal servers.

1.6 What's new for the application developer

IBM Lotus Notes and Domino 8 software is built on an open application infrastructure that helps you respond quickly to emerging business requirements with applications that are even easier to build.

For example, you can use Lotus Domino Designer 8 or Eclipse-based tools to build reusable components and mix and match them in composite applications that help improve user effectiveness and have a positive impact on your business.

Web services consumer support in Lotus Domino 8 allows your applications to interact with other systems using open standards, leveraging more of your existing IT investments.

With full support for DB2 access views and query views, you can rapidly build applications that blend collaborative services and relational data. You can access Lotus Domino data using industry-standard Structured Query Language (SQL).

In addition, many new features and enhancements in Lotus Domino Designer 8 extend your existing applications with increased flexibility and agility.

The following tables highlight many new Lotus Domino Designer 8 features and their benefits. For more information about these features, see Chapter 4, "Changes for the application developer" on page 129.

Table 1-17 Composite applications

Feature	Description	Benefit
Composite application inter-component communication support in Lotus Notes design elements	<p>Publish information from a Lotus Notes design element or specify logic to perform when another component publishes information.</p> <p>See section 4.2.2, "Building composite application components" on page 140 for more information.</p>	<p>Share information across application and system boundaries.</p> <p>Enable users to display relevant information using a single click or reduce the number of steps needed to complete a unit of work.</p>
Property broker editor incorporated into Lotus Domino Designer 8	<p>Graphical user tool that allows application developers to define properties and actions, which will be used by composite application components.</p> <p>See section 4.2.2, "Building composite application components" on page 140 for more information.</p>	<p>Simplify the development of composite application component definitions and their associated Web Services Description Language (WSDL) files.</p>
Database property to launch as a composite application	<p>Mechanism to designate an application to run as a composite application for use by Lotus Notes 8 users.</p> <p>See "Create Lotus Notes composite application container" on page 145 for more information.</p>	<p>Easily change an existing Lotus Notes application to open as a composite application that brings together components from one or more systems.</p>

Feature	Description	Benefit
Composite application database template	<p>Create a new NSF-based composite application that you can use online or offline.</p> <p>See “Create Lotus Notes composite application container” on page 145 for more information.</p>	Give your line of business users (as well as yourself) a starting point to mix and match components into a composite application to meet business needs.
New frameset property for composite applications	<p>Granular option to introduce composite applications into existing Lotus Notes applications through seamless redirection for Lotus Notes 8 users, while continuing to support users of earlier versions of Lotus Notes.</p> <p>See “Create Lotus Notes composite application container” on page 145 for more information.</p>	Enable backward compatibility of applications for a user community with mixed Lotus Notes versions.
Composite application editor	<p>A graphical user interface to assemble and wire components together by dragging and dropping them into a composite application.</p> <p>Supplied with the Lotus Notes 8 client and used by line of business users.</p> <p>See section 4.2.3, “Assembling and wiring composite application” on page 145 for more information.</p>	Construct or customize an application to display the information you need to carry out your business functions, without needing detailed knowledge of application development or programming languages.
New design element options for composite applications	<p>Multiple view, folder, action, and options available for NSF components used in composite applications.</p> <p>See section 4.2.4, “Additional design element options for composite applications” on page 150 for more information.</p>	Use flexible point-and-click options to supply more appealing navigation options that let users quickly locate the information they need.

Table 1-18 Extending the Lotus Notes 8 client

Feature	Description	Benefit
Customize the Lotus Notes 8 client interface	<p>Using plug-ins and extension points in the Lotus Notes client, Eclipse application developers can extend the Lotus Notes 8 client interface.</p> <p>See section 4.3, “Extending the Lotus Notes 8 Client” on page 154 for more information.</p>	Customize Lotus Notes 8 client to meet your specific business needs.

Table 1-19 Web services

Feature	Description	Benefit
Enhancement for Web service providers	<p>The creation of Lotus Domino hosted web services has been enhanced, including:</p> <ul style="list-style-type: none"> ▶ Default properties changed to reflect the most common settings ▶ Web service preview feature <p>See section 4.5, “Enhancements for Web service provider applications” on page 160 for more information</p>	Streamline™ the design and creation of Web services on Lotus Domino servers.
Web services consumer support	<p>Triggered by simply importing the WSDL for the public interface of any accessible Web service provider. Automatic creation of a reusable library of functions that are accessible through LotusScript® or Java™.</p> <p>Any Lotus Domino 8 server or Lotus Notes 8 interacts as a Web service consumer when the library functions are called.</p> <p>See section 4.4, “Web service consumer applications” on page 155 for more information.</p>	Use distributed computing and open standards to make use of your current IT investments and publicly available services.

Table 1-20 Programming language enhancements

Feature	Description	Benefit
LotusScript and Lotus Notes formula language enhancements	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ New and enhanced LotusScript classes, properties, and methods. ▶ New and enhanced @functions and @commands in Lotus Notes formula language. <p>See section 4.1.7, “Programming language additions” on page 133 for more information.</p>	Expand the functionality of your application and interact with other systems using Lotus programming languages.
Enhancements to Lotus Domino XML (DXL)	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ Support for additional design elements, such as DB2 access views, query views, Web services, and more. ▶ New properties to control MIME conversion and to import or export a subset of Lotus Notes documents and rich text fields. <p>See section 4.1.10, “Lotus Domino XML enhancements” on page 136 for more information.</p>	<p>Gain refined and expanded support for many uses of DXL. Examples are:</p> <ul style="list-style-type: none"> ▶ Publish and interchange documents with other systems or formats using XML. ▶ Read and write information to and from Lotus Notes applications. ▶ Archive and restore data stored in Lotus Domino. ▶ Manage design generation and perform change control.

Feature	Description	Benefit
Support for Java 5	<p>IBM's new Java SE technology, including new Java 5 syntax.</p> <p>See "Support for Java 5" on page 134 for more information.</p>	Opportunity for enhanced performance and increased reliability.

Table 1-21 View design enhancements

Feature	Description	Benefit
Greater control of right mouse menu	<p>Option to omit default entries from the right mouse menu.</p> <p>See section 4.1.1, "More control over right mouse menu actions" on page 130 for more information.</p>	Allow users to focus on the specific actions you defined for a particular view or folder.
New column properties	<p>Enhancements are:</p> <ul style="list-style-type: none"> ▶ New bytes column type to display number field contents as kilobytes, megabytes, or gigabytes. ▶ Option to set a specific column (instead of the rightmost column) to be the one that expands to use the available window width. ▶ New property for on-the-fly user sorted columns that defers index creation until first use of sort capability. <p>See section 4.1.2, "Bytes column type" on page 131, section 4.1.3, "Extend to use available window width" on page 131 and section 4.1.4, "Deferred sort index creation" on page 131 for more information.</p>	<p>Gain more flexibility for column definitions.</p> <p>Reduce unnecessary server load for generating indexes that might not be used until a later date or not at all.</p>

Table 1-22 Additional enhancements in Lotus Domino Designer 8

Feature	Description	Benefit
Advanced database options	<p>Three new advanced database options:</p> <ul style="list-style-type: none"> ▶ Support Response Thread Hierarchy ▶ Do not allow simple search ▶ Allow compression of database design <p>See section 4.1.5, "Advanced application options" on page 132 for more information</p>	Improve application performance and functionality.

Feature	Description	Benefit
"On server start" option for agents	New event trigger option in agent properties to designate that the agent runs when the Lotus Domino server is started. See section 4.1.8, "On server start agents" on page 135 for more information.	Gain greater flexibility for defining when agents run.
New scheduled agent target option	Configure scheduled agents to not create a document collection at run time. See section 4.1.9, "Scheduled agent enhancement" on page 135 for more information.	Allows application developers to design more efficient scheduled agents.
Support for thumbnails in rich text light fields	Developer-controlled option to automatically resize a user-supplied graphic. See section 4.1.6, "Thumbnail support" on page 133 for more information.	Easily provide consistent, professional display of graphics across all documents.
Web application enhancements	Enhancements are: <ul style="list-style-type: none"> ▶ Reserved Name fields. ▶ Additional \$\$HTMLOptions. ▶ Ability to use JavaScript™ object notation (JSON) output format for AJAX Web applications. See "Web application enhancements" on page 134 for more information.	Gain more granular control over the display of rich text fields, tables, and sections. Speed the creation of AJAX Web applications.

Table 1-23 Lotus Domino and DB2 integration8

Feature	Description	Benefit
Full support for DB2 data store	No longer a limited availability feature as was the case in Lotus Domino 7.x. See section 4.6.1, "Full support for the DB2 data store" on page 163 for more information.	Full support for the Lotus Domino and DB2 integration features available through normal IBM Lotus support channels.
SQL updates are now transactional	Commit bulk transactions on DB2 access views in a single transaction. See section 4.6.3, "SQL updates, inserts, deletes are transactional" on page 163 for more information.	More efficient processing of bulk transactions.
New columns for DB2 Access views	Additional columns that allow application developers to add extra functionality to their applications. See section 4.6.4, "New columns for DB2 access views" on page 164 for more information.	Improved application functionality available for DB2-enabled applications.

Feature	Description	Benefit
Improved Lotus Domino and DB2 user mapping	<p>Eliminates the need for many users to have a Lotus Domino and DB2 user mapping defined.</p> <p>See section 4.6.5, "Improved user mapping" on page 164 for more information.</p>	Reduced administrative tasks for managing a Lotus Domino and DB2 integration environment.



Changes for the user

This chapter discusses new and improved features in the Lotus Notes 8 client and how they can help improve the efficiency and productivity of users.

This chapter discusses the following topics:

- ▶ “Enhanced user interface” on page 34
- ▶ “Mail” on page 45
- ▶ “Calendar” on page 55
- ▶ “Improved Out of Office” on page 54
- ▶ “Contacts” on page 60
- ▶ “Lotus Symphony” on page 65
- ▶ “Sidebar plug-ins” on page 71
- ▶ “Sametime Contacts” on page 74
- ▶ “Activities” on page 75
- ▶ “Lotus Domino Web Access” on page 83
- ▶ “Lotus Notes 8 basic configuration” on page 86”

2.1 Introduction

IBM Lotus Notes 8 software delivers a user experience that is a seamless step forward for current Lotus Notes users. Enhancements to existing core functions are complemented by new functionality that increases productivity, improves efficiency, and speeds your decision making processes.

The improvements to Lotus Notes software in the Lotus Notes 8 release are designed to help your organization collaborate better and enhance productivity and responsiveness.

Examples of the Lotus Notes 8 client interface are shown in Figure 2-1 and Figure 2-2 on page 33. These figures show the areas of particular interest, which we summarize after the figures, with references to where we discuss these in more depth in this chapter.

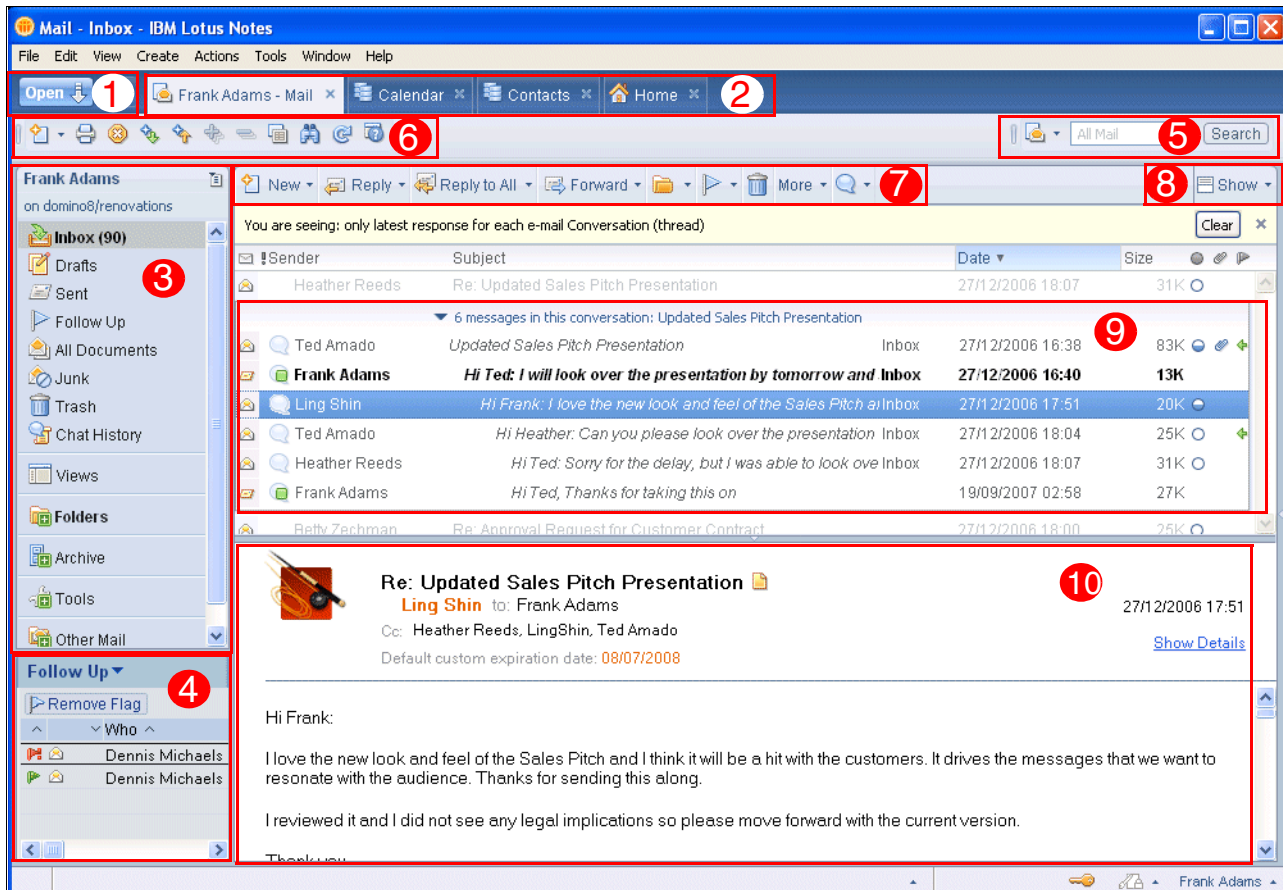


Figure 2-1 Lotus Notes client layout (without sidebar)

As shown in Figure 2-1:

1. Open list: Access applications and files. See section 2.2.2, “Open list” on page 36.
2. Window tabs: Access and switch between different Lotus Notes windows. See section 2.2.4, “Window management and navigation” on page 38.
3. View selection: Select the application view or folder.
4. Mini view: Switch between views of To Dos, new calendar invites, and mails that have been flagged for follow up.

5. Search center: Access to search within and outside of Lotus Notes. See section 2.2.9, “Search center” on page 43.
6. Toolbars: Contextual actions. See section 2.2.3, “Toolbars” on page 38.
7. Action bar: Lotus Notes application actions. See section 2.3.1, “Action bar” on page 45.
8. Display menu: Quick access to view management options. See section 2.3.2, “Display menu” on page 46.
9. Mail conversations: Organize your mail file. See section 2.3.5, “Conversations view” on page 48.
10. Preview pane (on the bottom): View the content of the selected document. See section 2.3.3, “Horizontal or vertical preview” on page 46.

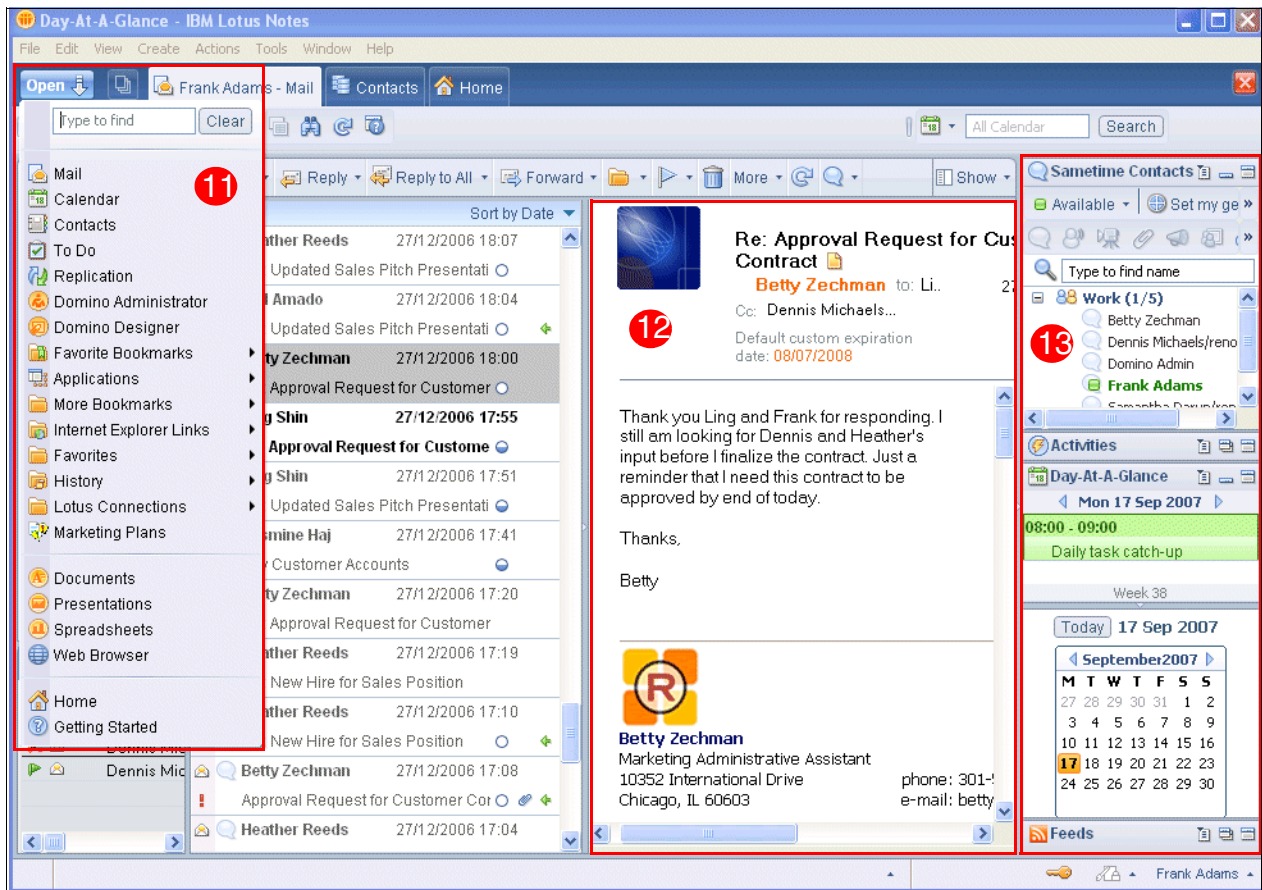


Figure 2-2 Lotus Notes client layout (with sidebar)

As shown in Figure 2-2:

11. Open list: Access to Lotus Notes applications (bookmarks), Lotus Symphony editors, Web browser, and WebSphere Portal applications. See section 2.2.2, “Open list” on page 36. See 2.7, “Lotus Symphony” on page 65.
12. Preview pane (on the right): View content of selected document. See section 2.3.3, “Horizontal or vertical preview” on page 46.
13. Sidebar: Access to included and third-party plug-in applications. See section 2.8, “Sidebar plug-ins” on page 71.

In addition to these features, note the following key new features and enhancements in the Lotus Notes 8 client:

- ▶ Mail enhancements to Lotus Notes 8 software include inline spell checking, mail recall, intelligent e-mail addressing, enhanced Out of Office, and improved threaded e-mail capabilities. See section 2.3, “Mail” on page 45.
- ▶ Calendar views offer enhanced ways to view and manage all day events and unprocessed invitations. The usability of free-time lookup has also been improved. See section 2.5, “Calendar” on page 55.
- ▶ Enhancements to Contacts include business-card-like views and the ability to automatically store a local copy of directory information for those contacts with whom you have been collaborating recently. See section 2.6, “Contacts” on page 60.
- ▶ Open-standards-based spreadsheet, document, and presentation tools are included at no additional charge. These tools offer an alternative to potentially expensive office productivity software based on proprietary standards. See section 2.7, “Lotus Symphony” on page 65.

While engaged in other activities, you have access to other facilities from a sidebar on the right side of your window. Here you can monitor upcoming meetings and new entries in your feed-enabled applications, and access to your instant messaging contacts. See section 2.8, “Sidebar plug-ins” on page 71 and section 2.9, “Sametime Contacts” on page 74.

The Lotus Notes 8 architecture can easily integrate with other applications that make people more productive. With Activities, you can drag undefined business processes out of the inbox and share them with team members. You can easily organize, access, and share all the materials related to a project. Team members can easily remain in sync, helping to make you and your colleagues more efficient. See section 2.10, “Activities” on page 75.

Continued operating system choice and compatibility with previous releases of Lotus Notes software protect your IT investments. Lotus Notes 8 software currently runs on select Microsoft Windows and Linux operating systems, with support for Macintosh machines expected at a later date. For details of the system requirements for running the Lotus Notes 8 client and the Lotus Domino 8 server, see the *Lotus Notes/Domino 8 Release Notes*.

2.2 Enhanced user interface

The Lotus Notes 8 client has a fresh, but familiar, look and feel that is designed to be intuitive to use. The interface was designed in direct response to user feedback. Lotus Notes 8 software offers a number of new features that improve employee efficiency and effectiveness.

Lotus Notes 8 software is flexible. It offers the option to personalize the interface to accommodate your own ways of working and includes plug-ins, allowing the interface to be extended to meet your business requirements.

2.2.1 Home page

The Lotus Notes 8 client has a new default welcome page, now called Home page (Figure 2-3 on page 35).

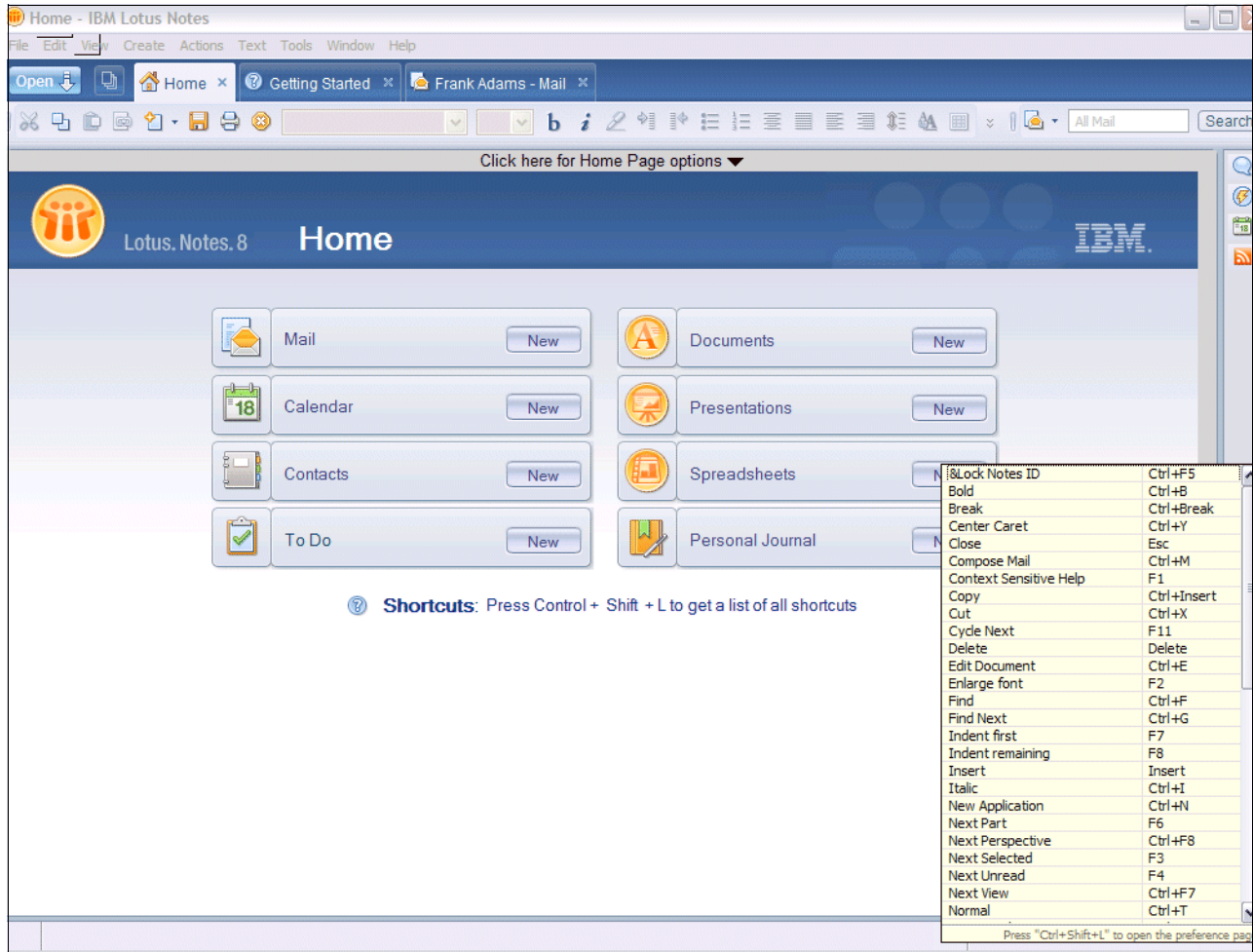


Figure 2-3 Default Home page

As with previous versions of the Lotus Notes client, there are links on the Home page to Mail, Calendar, Contacts (previously called personal address book), To Do, and Personal Journal. Additionally, with the Lotus Notes 8 client, you have links to a set of productivity tools. For more details, see section 2.7, “Lotus Symphony” on page 65.

There are several keyboard shortcuts that allow you to perform operations without using the menus. You can view the list of available shortcuts from the Home page by pressing **Ctrl+Shift+L**.

In addition, as with previous versions, you can select an alternate welcome page or create your own. Note that if you are upgrading from a previous version of Lotus Notes, you retain your existing welcome page by default.

2.2.2 Open list

Your Lotus Notes applications are now accessible from a new menu, which is displayed by clicking the **Open** list in the top-left corner of the window (Figure 2-4).

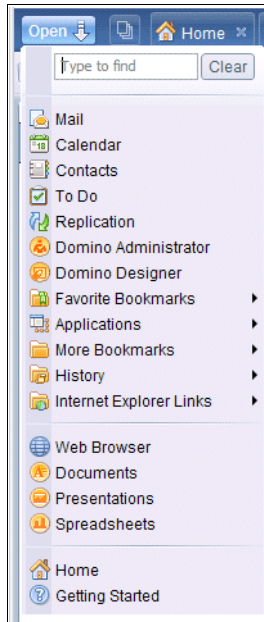


Figure 2-4 Open list

If you are upgrading from a previous release of the Lotus Notes client, your bookmarks will be migrated into the Open list. The menu also has links to the Lotus Symphony editors (see section 2.7, “Lotus Symphony” on page 65 for more information), and there is also a link to open a Web browser. You can configure this link to open the embedded Lotus Notes Web browser or the default browser that you have set in your operating system.

You can also search your Open list. As you type text into the search field, only menu items that contain text matching the typed text remain in the list (Figure 2-5).

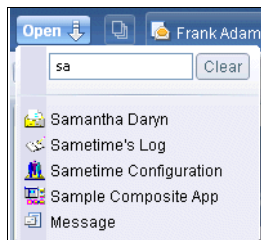


Figure 2-5 Search your Open list

You can have the Open list icons display permanently on the left-hand side of the window, as shown in Figure 2-6 on page 37, by right-clicking the Open list and selecting “Dock the open list”.

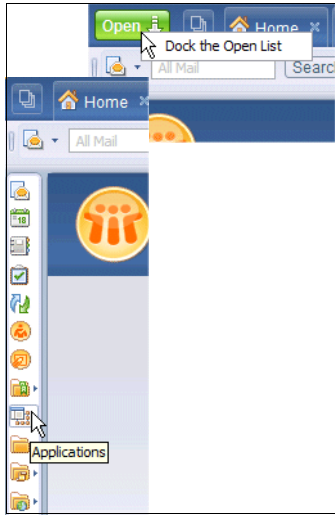


Figure 2-6 Docked Open list

Note that there is still a File menu from where you can open Lotus Notes databases that you have not “bookmarked.” If you have used a previous version of Lotus Notes, notice that the term “Database” has been replaced with “Application” (Figure 2-7).

This change in terminology reflects the fact that the Lotus Notes 8 client is embracing additional types of applications and is no longer limited to just databases. See Chapter 4, “Changes for the application developer” on page 129.

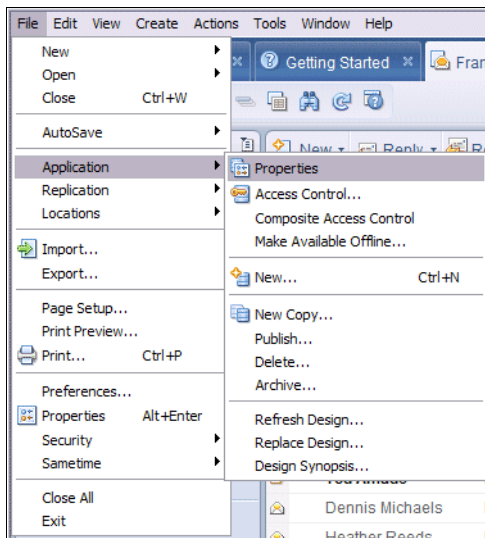


Figure 2-7 File menu

Note: The menu shown in Figure 2-7 is the one that is displayed if you have “Advanced Menus” selected. See 2.2.7, “Advanced Menus option” on page 41 for more information about configuring this feature.

2.2.3 Toolbars

Contextual toolbars now appear within each individual Lotus Notes tab rather than directly below the menu. This brings the toolbars closer to the activity to which they relate and allows a smoother transition when switching between tabs that require different toolbars. Figure 2-8 shows an example.



Figure 2-8 Toolbar

Organizations can customize the toolbars by adding custom plug-ins. See section 4.3, "Extending the Lotus Notes 8 Client" on page 154 for more information.

2.2.4 Window management and navigation

Lotus Notes 8 offers several features to help manage your open windows. This makes it possible for you to navigate easily to the required view, document, or page, even when there are several Lotus Notes windows open.

Group document tabs

As with Lotus Notes 7, the default option is to have a separate tab across the top of the page for each Lotus Notes window that is open.

However, with Lotus Notes 8, you also have the option to group window tabs. This means that when you have several documents open from the same application, they are grouped together under a single tab. Clicking the arrow on the right side of the tab displays a list of all of the open windows from this view. Simply click an entry in the list to navigate to the required window. See Figure 2-9 for an example.

This feature improves your ability to manage multiple windows. Fewer tabs across the top of the page make it easier to read the tab names. And, because the tab contents are listed in the drop-down list, it is possible to see the complete window titles.



Figure 2-9 Group document tabs

Another option for window management is to have all documents in their own window. This is useful if you want to display more than one document on the page at one time, as shown in Figure 2-10.

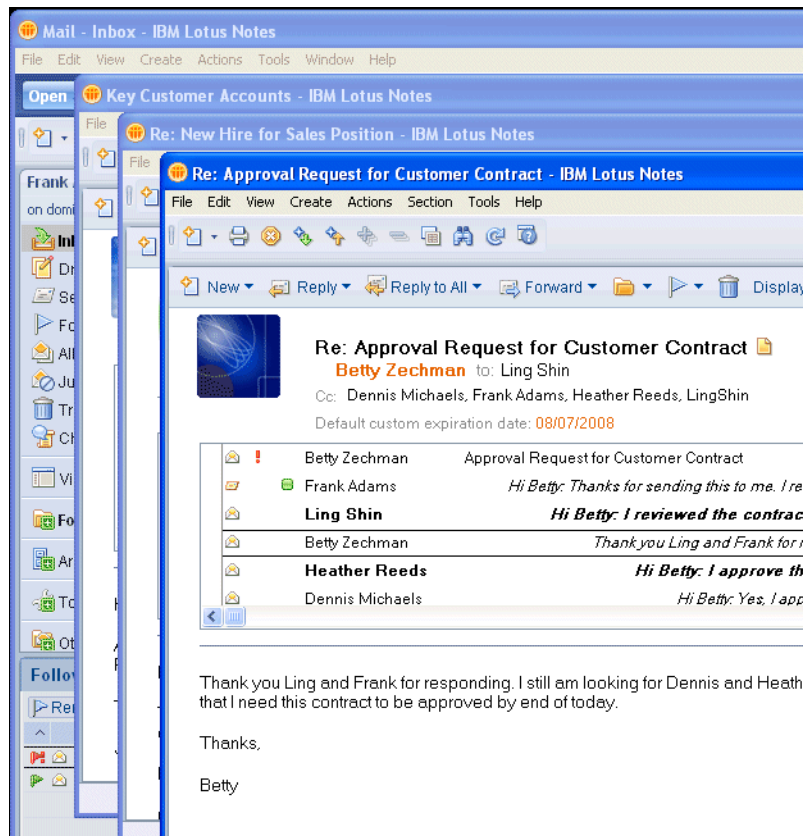


Figure 2-10 Open each document in a separate window

2.2.5 Thumbnails

If you click the icon on the right side of the Open list, as shown in Figure 2-11, all of the open windows open. Each one is displayed as a “thumbnail.”



Figure 2-11 Thumbnail icon

Figure 2-12 shows the thumbnail view. You can click one of the “thumbnails” to quickly navigate to the associated Lotus Notes window.

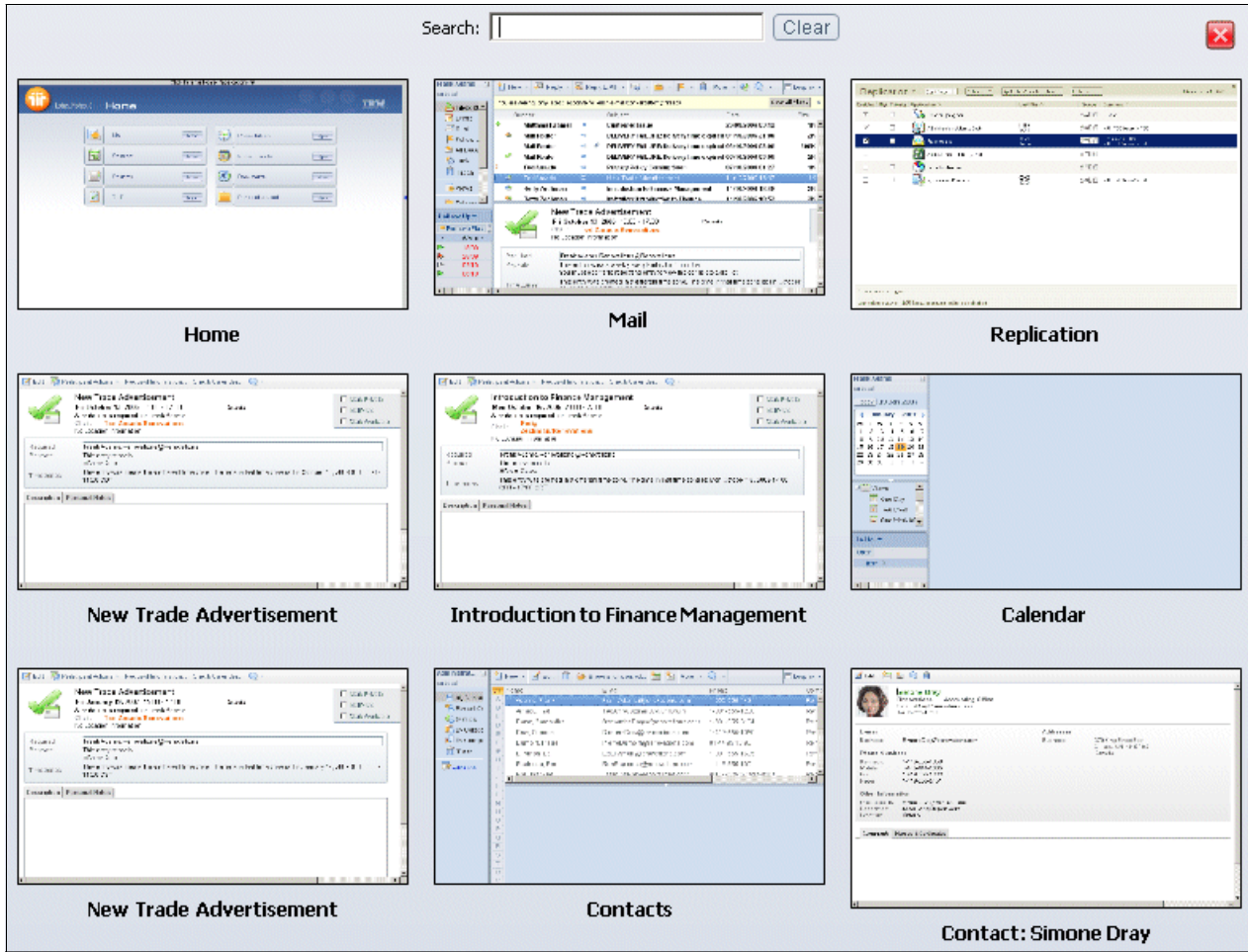


Figure 2-12 Thumbnails

If you have several windows open, use the Search filter at the top of the page to reduce the number of windows displayed and make it easier to locate the window you need. As you type text into the filter, only windows with titles that contain text matching the typed text remain on the page.

2.2.6 Unified preferences

With Lotus Notes 8, the **File** → **Preferences** menu is a single location from which you can configure all preferences associated with the Lotus Notes client, including preferences associated with locations, instant messaging, activities, and the productivity tools. See Figure 2-13.

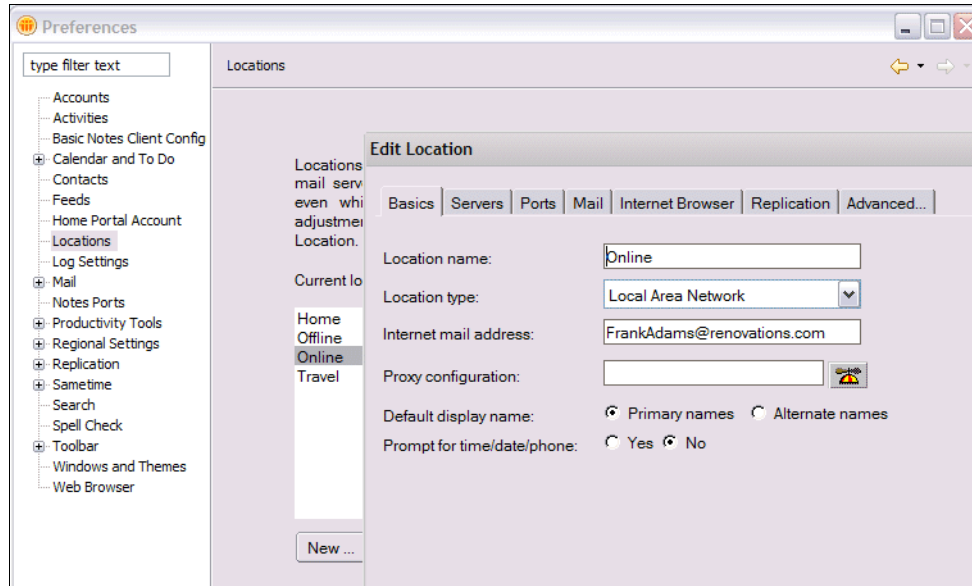


Figure 2-13 Unified preferences

Users can customize the client interface to meet their specific needs and ways of working by configuring the preferences. However, a filter function at the top of the list of preferences can quickly locate the required preference by showing only those preferences that match the text that is entered. See the example in Figure 2-14.

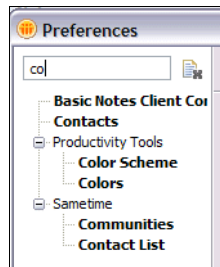


Figure 2-14 Filtering the preferences

Note that the original methods for accessing the mail/calendar preferences and locations are still available in addition to the unified preferences menu, allowing backward compatibility for users familiar with the original methods.

2.2.7 Advanced Menu option

To simplify the menus for Lotus Notes client users who do not make use of advanced menu options, the Lotus Notes client has an option to suppress these, as shown in Figure 2-15 on page 42. The Advanced Menu option is selected (turned on) by default for users who have the Lotus Domino Administrator client or Lotus Domino Designer client installed, but deselected by default for users that only have the Lotus Notes 8 client.

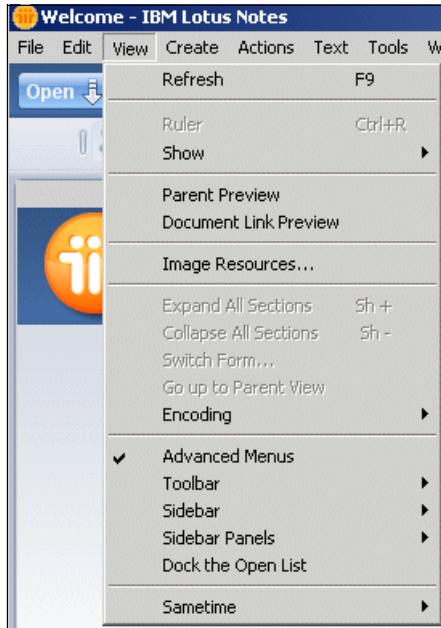


Figure 2-15 Configuring Advanced Menus

For example, Figure 2-16 shows the difference between the Tools menu with the Advanced Menus option selected and the Tools menu without the Advanced Menus option.

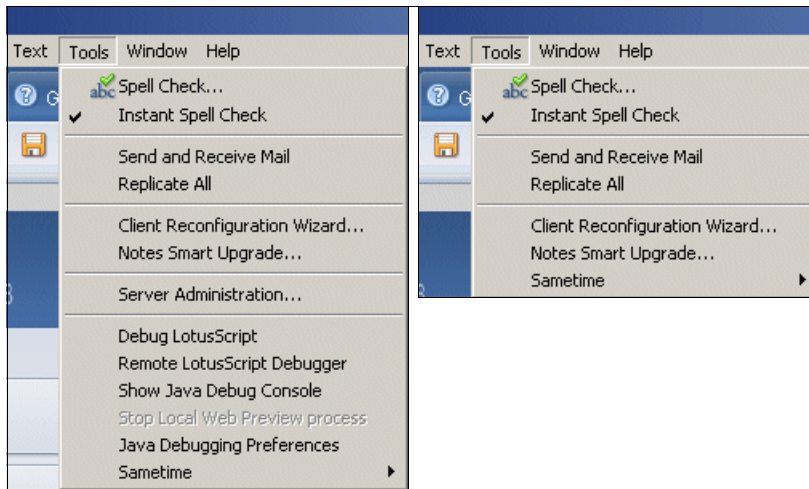


Figure 2-16 Difference in the tools menu options with and without the Advanced Menus option

2.2.8 Making applications available offline

To simplify the process of creating a local replica of an application that is hosted on a Lotus Domino server, the Lotus Notes 8 client has a "Make Available Offline" option. Through a single window, users can supply all the information necessary to access applications when they are disconnected from their network. See Figure 2-17 on page 43 for an example.

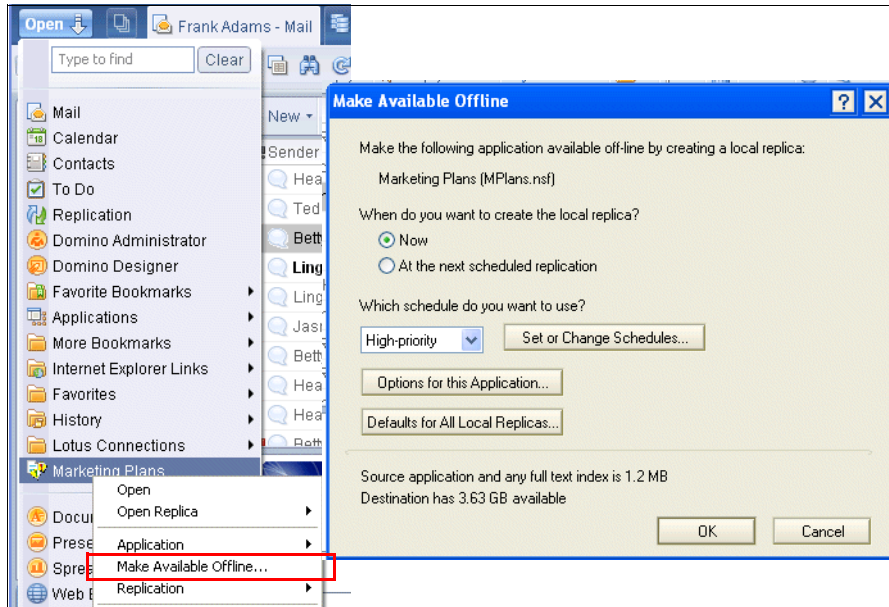


Figure 2-17 Make the application available offline

2.2.9 Search center

The Lotus Notes 8 client has a new search center interface that goes to a single location to search your mail, calendar, directories, catalogs, and even the Web. See Figure 2-18. For example, there are options for Yahoo! and Google Web searches. If you select one of these options, your Web search is carried out by the associated search engine. If you have Google Desktop Search installed on your workstation, this option also appears in the list.

Now you do not have to leave your Lotus Notes client to perform common search tasks, even if the targets of the search are not in the Lotus Notes environment itself. The expansion of the scope of searches beyond the Lotus Notes client is of particular benefit now that the productivity tools have been included with the Lotus Notes client. Users can directly open and edit many of the different document types that might be included in their search results.

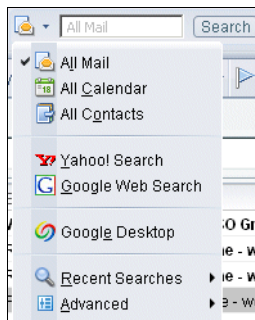


Figure 2-18 Search center

2.2.10 Help

The Lotus Notes 8 client has a help system that displays context-sensitive help in a side panel while you work (Figure 2-19 on page 44).

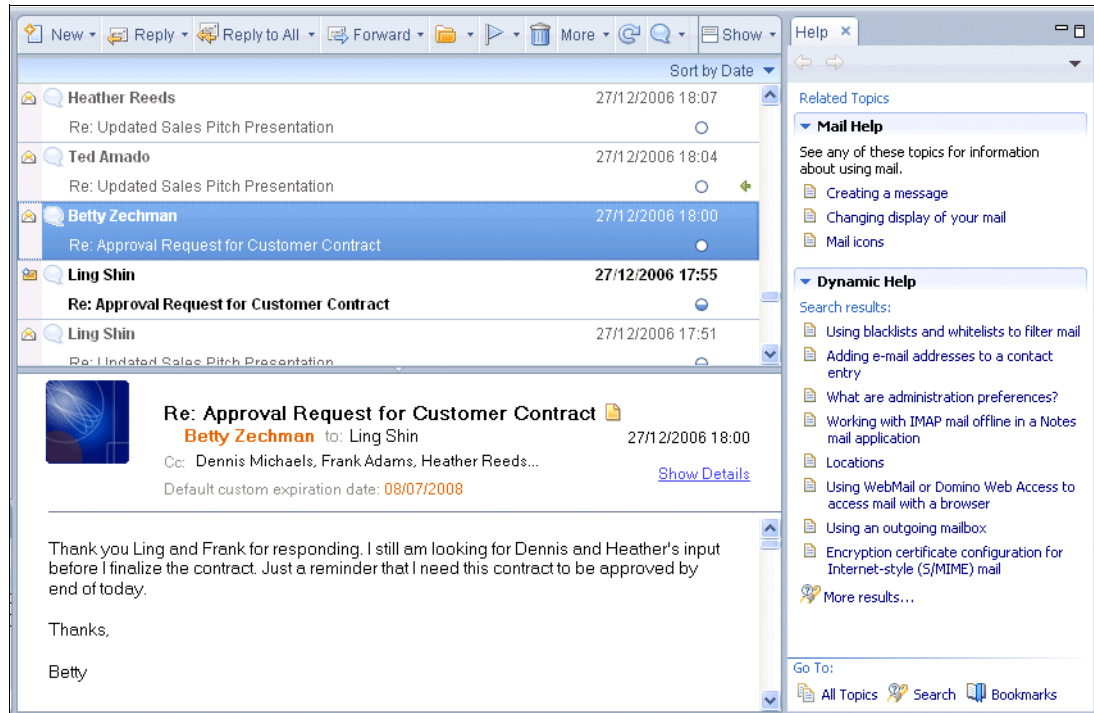


Figure 2-19 Context-sensitive help

In addition to help for the Lotus Notes client, this help system includes sections about Sametime Contacts, Activities, the composite application editor, and the Lotus Symphony editors. You can choose to install them during the Lotus Notes 8 client installation.

2.2.11 IBM Support Assistant

IBM has integrated the IBM Support Assistant with the Lotus Notes client. You can access the IBM Support Assistant from the Lotus Notes 8 client help menu by selecting **Help** → **Support** → **IBM Support Assistant**.

IBM Support Assistant is a software application offered at no additional charge. It is intended to help clients be more productive with IBM products by resolving product challenges faster. Clients are encouraged to consult IBM Support Assistant when experiencing a product challenge. IBM Support Assistant offers resources for self-help that can help you identify, assess, and overcome product difficulties without needing to contact IBM. When it is necessary to contact IBM, IBM Support Assistant offers resources for rapid submission of problem reports and immediate, automated collection of diagnostic data that can accelerate problem resolution. See Figure 2-20 on page 45.

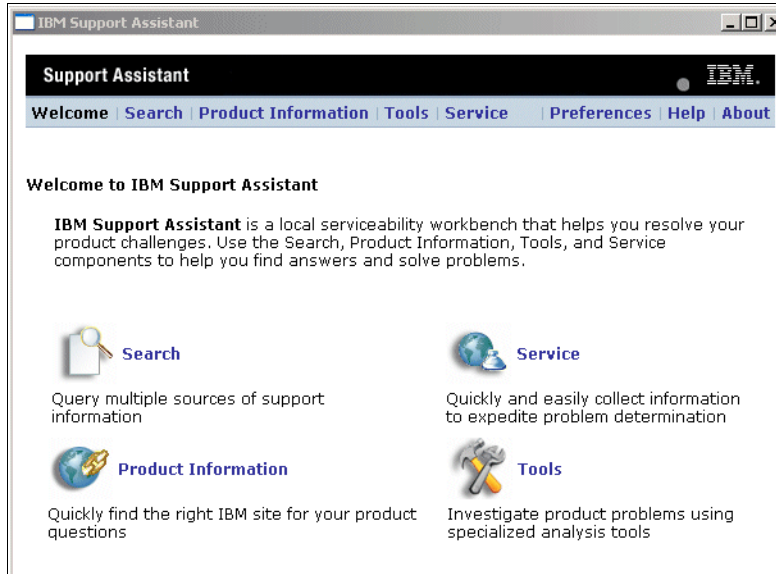


Figure 2-20 IBM Support Assistant Welcome page

For more information about IBM Support Assistant, see the Lotus Notes 8 client online help or the following Web site at:

<http://www.ibm.com/software/support/isa/>

2.3 Mail

The new interface in the Lotus Notes 8 mail file is a direct result of considerable feedback from the Lotus Notes community. It is intuitive to use and contains new and improved features.

2.3.1 Action bar

The action bar uses icons with “hover over” help rather than text for common and easily distinct actions (Figure 2-21).

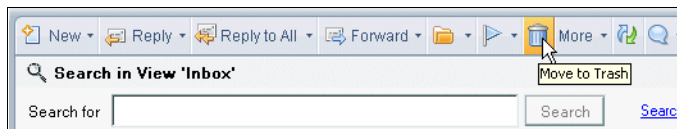


Figure 2-21 Action bar icons with “hover over” help

In most cases, you can carry common actions with a single click, leaving easily accessible, two-click actions for less frequent tasks. For example, if you are in your mail file, it is likely that the type of document you create most often is a new e-mail. Therefore, if you click the **New** icon in the action bar, a blank mail form opens. However, if you click the arrow beside the New icon, you get a drop-down list that allows you to select a new Calendar entry or To Do entry instead (Figure 2-22 on page 46).

Also, Reply and Reply to All are single click actions and these now default to include the mail history.

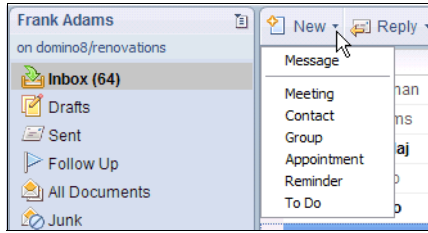


Figure 2-22 Mail: Single and two-click actions

2.3.2 Display menu

A new display menu is at the top-right corner of the Lotus Notes 8 mail and calendar views (Figure 2-23).

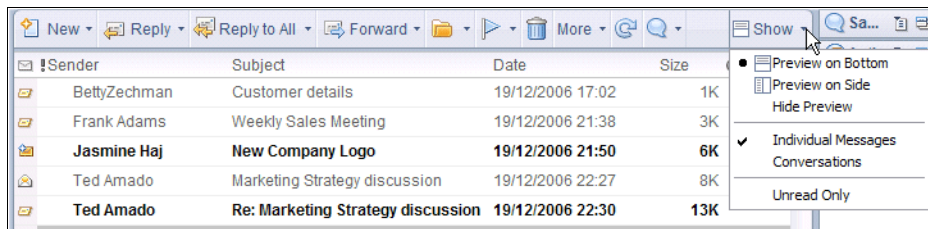


Figure 2-23 Display menu

This menu gives you quick access to view options that you want to switch on and off on a fairly frequent basis. For example, selecting **View Unread** to get a quick view of all those e-mails that you have not opened yet, or hiding the preview pane to maximize the room available for browsing the inbox.

We explain the other options on this menu in the next few sections.

2.3.3 Horizontal or vertical preview

The Lotus Notes 8 client offers a choice of using a vertical preview pane, as shown in Figure 2-24, instead of a horizontal pane. This configures your mail view to suit your own way of working.

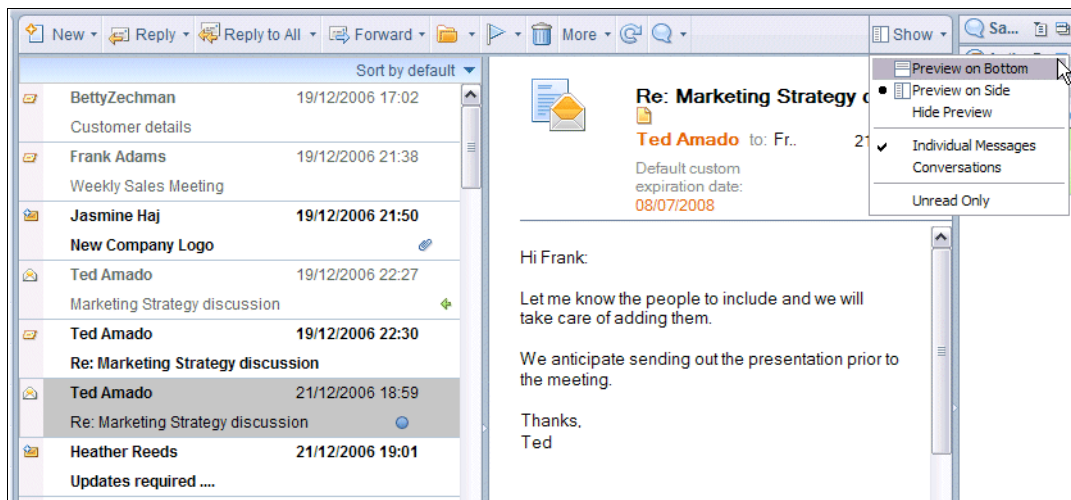


Figure 2-24 Vertical preview pane

Note that, in the example in Figure 2-24 on page 46, the mail view has been automatically reformatted to show the mail subject on a second line underneath the sender and the date. This allows you to see the pertinent information for each e-mail even when the width of the view is narrow. The option to switch between the preview panes, or to hide the preview pane altogether, is selected from the Display menu at the top-right corner of the page.

2.3.4 Mail threads

Lotus Notes 7 introduced the ability to see the mail thread to which an e-mail belonged from within the header of an e-mail. In addition, with Lotus Notes 8, there are two methods of viewing mail threads directly from the inbox (or any folder whose design is based on the inbox).

By default, the inbox view shows if there is a thread associated with an e-mail when you highlight the e-mail, as shown in Figure 2-25. Note the blue triangle (twistie) in front of the mail subject. This tells you that this e-mail is part of a mail conversation.

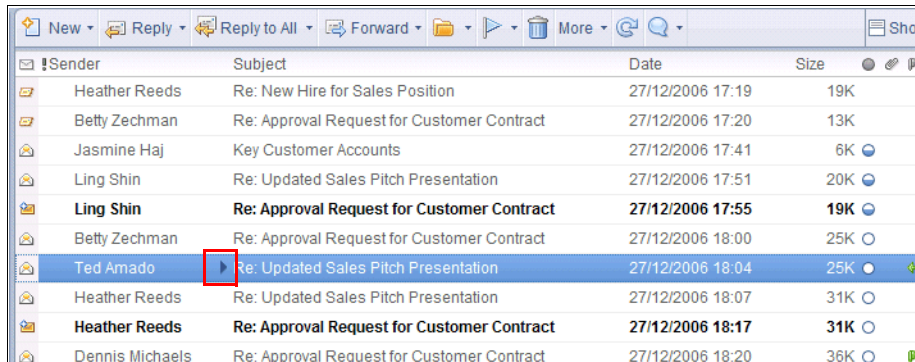


Figure 2-25 Inbox view showing e-mail that is part of a conversation

Clicking the twistie at the front of the subject opens up the conversation and allows you to see the contents of the conversation, as shown in Figure 2-26.

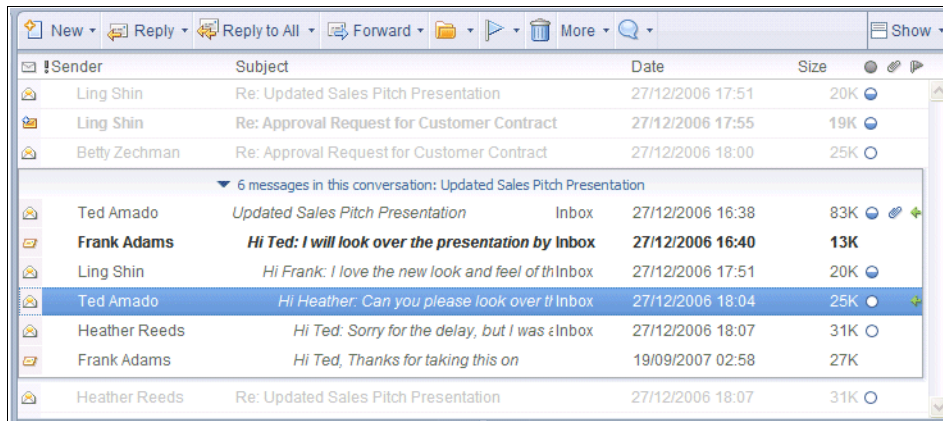


Figure 2-26 Mail conversation

Replies to an e-mail often have the same title as the original e-mail, simply prefixed with “Re:”. To allow more useful information to be shown in the conversation, the first few words of the e-mail, rather than the title, are used in the conversation. This makes it easier for you to identify the e-mail that you need. It might allow you to find all the information you require without having to open any of the e-mails in the conversation.

Note that the conversation shows all associated e-mails, regardless of where they are in your mail file. It also shows the folders in which they are located. Note that the e-mails have to be in your mail file in order to be listed.

The mail conversations are resilient. This means that if an intermediate response is deleted from the mail file, any replies to the deleted response still appear in the conversation. Also, conversations can now include mails that originated from e-mail systems other than Lotus Notes. This means that responses to and from people outside of your company also appear in your conversations.

2.3.5 Conversations view

With Lotus Notes 8, you can also organize your e-mails in your inbox view so that they are grouped in conversations with only one view entry per conversation. This can make searching the inbox much easier. This is because there are fewer conversations than there are e-mails. You can now have all the e-mails in a topic grouped together in your inbox under the latest entry in the mail thread.

You can switch between the “Individual Messages” view and the “Conversations” view from the Display menu at the top-right corner of the page (Figure 2-23 on page 46).

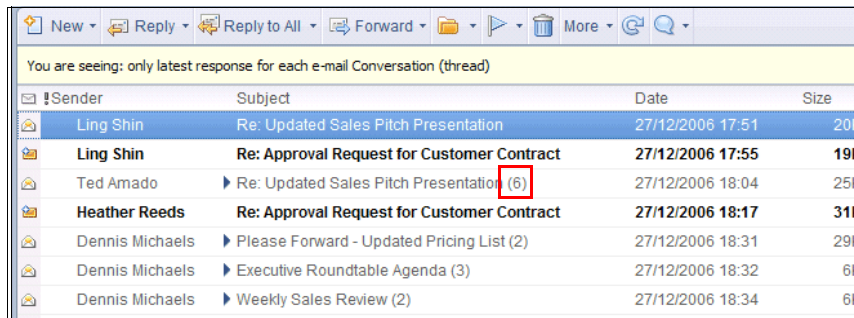


Figure 2-27 Collapsed conversation

When you are in “Conversations” mode, you only see the latest response in each mail thread displayed in the view. The number in parentheses at the end of the subject indicates how many e-mails are in the conversation, as shown in Figure 2-27. As with the default inbox view, if you click the twistie beside the view entry, you can open the thread to see all the mails in the conversation.

When in “Conversation” mode, you can perform actions, such as filing in a folder or deleting an entire mail thread. To help prevent accidental deletion, a dialog box opens (Figure 2-28). You can suppress this dialog box if needed.

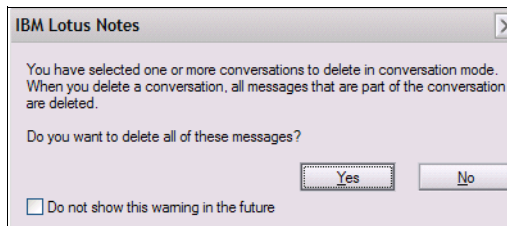


Figure 2-28 Confirm delete message

2.3.6 Mail header

With Lotus Notes 8, you have the flexibility to configure your mail header to show only the information and options that are useful to you.

In Figure 2-29, you can see the full information that can be displayed in the mail header.

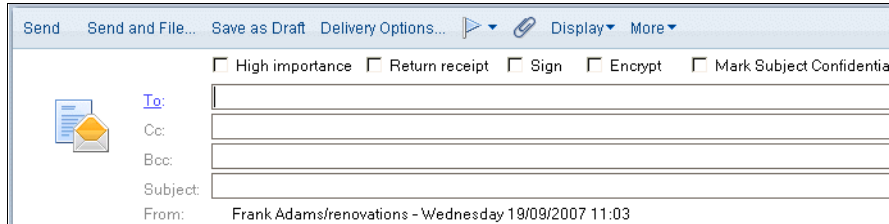


Figure 2-29 Mail header with all information

However, as shown in Figure 2-30, if there are options or information that you do not want to see by default when you create a new e-mail, you can hide everything except the To, Cc, and Subject fields by deselecting options in the Display menu.

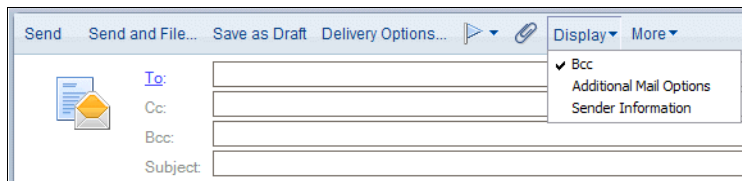


Figure 2-30 Mail header with reduced information

Notice also an additional mail option that has been introduced with Lotus Notes 8. As shown in Figure 2-31, if you select the **Mark Subject Confidential** check box, the text “*Confidential:” is placed in front of any subject text you have entered, making it simple for you to mark confidential e-mail in a consistent and easily recognized format.

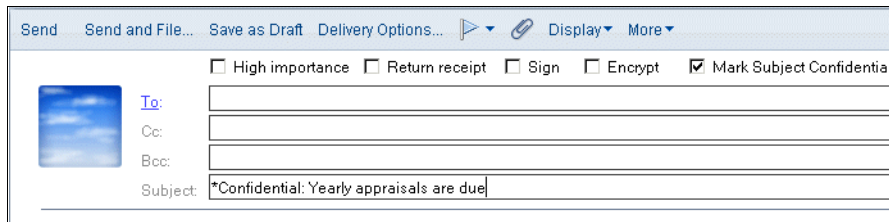


Figure 2-31 Mark Subject Confidential

2.3.7 Mail addressing

The address type-ahead feature available in prior versions of Lotus Notes has been enhanced, and converted to a type-down feature, to make it quicker for you to find the people you collaborate with most often. As you type into an address field, names that match your typed text appear in a drop-down list below. The list of names is not sorted alphabetically, but according to frequency of use. Therefore, your most common contacts appear at the top of the address list within a few keystrokes, as shown in Figure 2-32 on page 50. When you see the name you want, you can click it in the list to enter the full name in the address field.

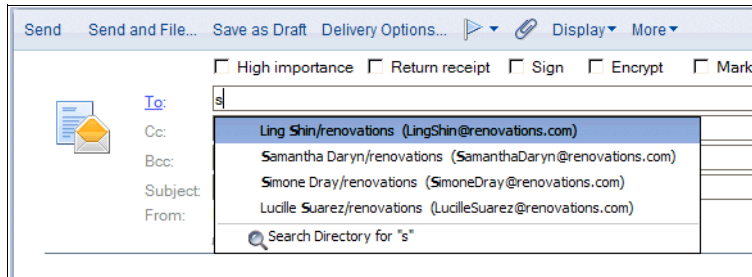


Figure 2-32 Type-down address list

2.3.8 Sort recipient lists

With Lotus Notes 8, you can now sort the “Sent To” and “Copied To” fields on e-mails that you have sent or received as shown in Figure 2-33. When an e-mail has several recipients, this feature allows you to quickly and easily see whether someone was included on the distribution list, even if the original list was not created in alphabetical order.

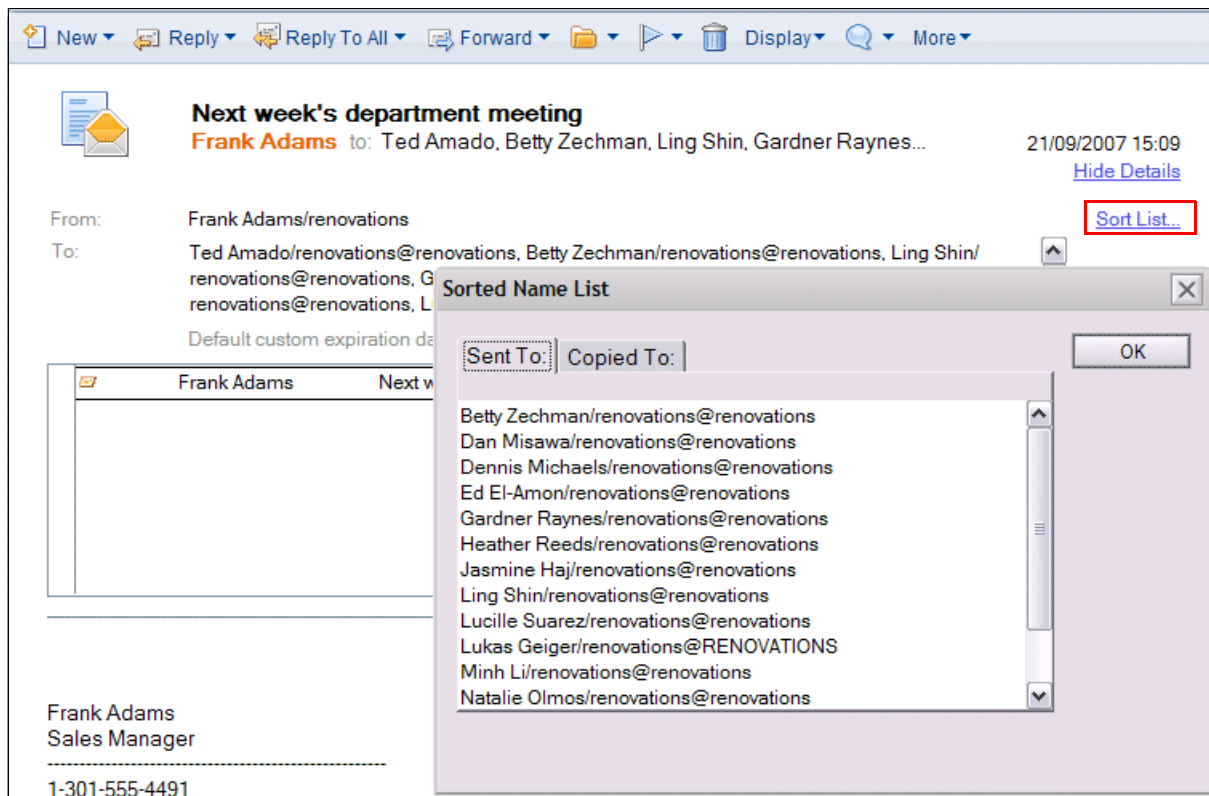


Figure 2-33 Sort recipient list

2.3.9 Multilevel undo

Multilevel undo functionality for text editing in the Lotus Notes 8 client retraces your steps through more than 50 levels of edits. Note that multilevel undo is available for text fields in any Lotus Notes 8 document and not just in the mail file.

2.3.10 Instant spell checking

You now have the option to turn on inline spell checking. As you type words into a rich text field, a red squiggle appears underneath a word that is spelled incorrectly or that is not present in your dictionary. You can configure an option in the unified preferences window, as shown in Figure 2-34.

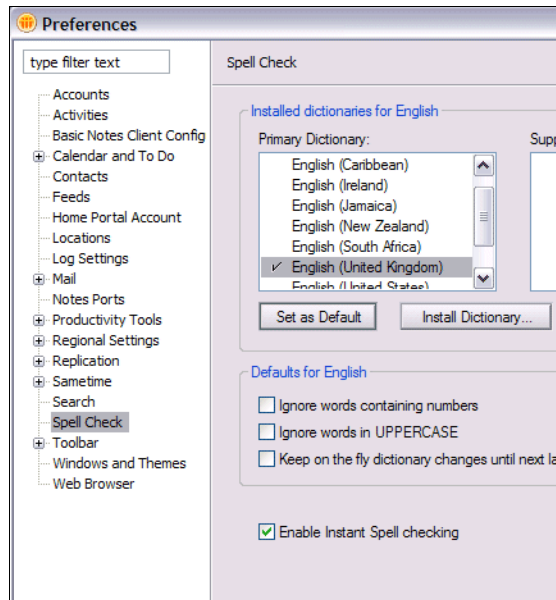


Figure 2-34 Configure instant spell checking

If you right-click the offending word, a list provides suggestions for the correct spelling for the word. You can then choose one of the suggestions, as shown in Figure 2-35, or add the word to the dictionary so that it is recognized in future occurrences.

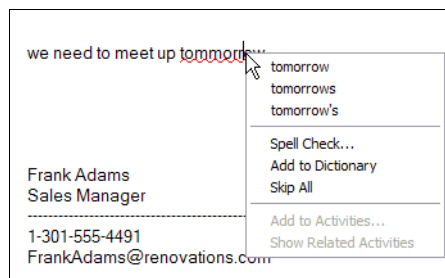


Figure 2-35 Inline spell checking

Note that inline spell checking is available in rich text fields in any Lotus Notes 8 document and not just in the mail file.

2.3.11 Document selection

The Lotus Notes 8 client supports common operating system keyboard and mouse-click shortcuts and commands.

For example, you can use the Ctrl key and mouse-click to select multiple, non-contiguous items in a Lotus Notes database view, as shown in Figure 2-36 on page 52, allowing you to interact with multiple pieces of information simultaneously.

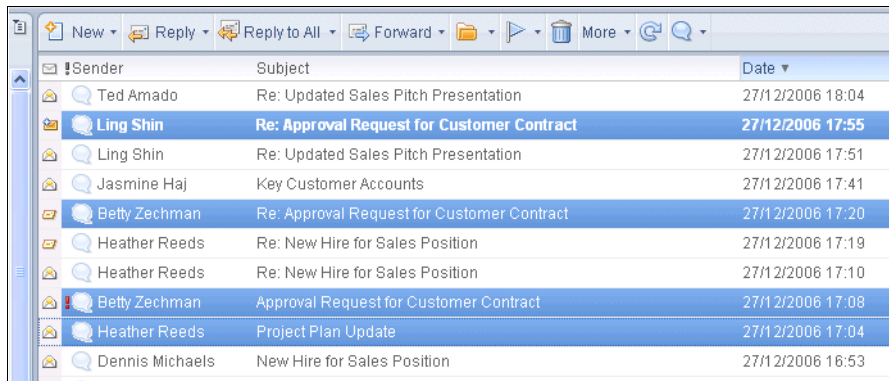


Figure 2-36 Document selection using Ctrl key and mouse-click

Note that the use of common operating system keyboard and mouse-click shortcuts is also available in the Contacts application and the Calendar Lists views.

2.3.12 Collaboration history

When you are searching for information, you might remember the people with whom you were collaborating rather than the tool in which the collaboration was taking place. With Lotus Notes 8, a right-click menu option for names fields allows you to see a list of other collaborations that you had with that person. These collaborations are e-mails from your inbox, meetings from your calendar, or instant messages stored in your chat history. Note that instant messages are only currently displayed if your chat transcripts are stored in your mail file.

All of these are displayed together in the “Collaboration History” as shown in Figure 2-37. You can select an entry from the list to open it directly from your mail file.

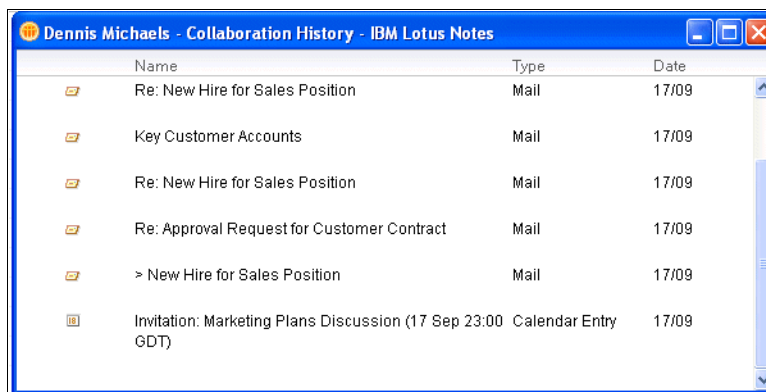


Figure 2-37 Collaboration History

Note that right-clicking the **Collaboration History** option extends to name fields in other databases, such as Contacts, team room, and discussion databases, as well as in the mail, calendar, and Sametime Contacts list.

2.3.13 Message recall

To assist in the situations where an e-mail is sent accidentally, perhaps to the wrong recipient or before all the required information has been entered in the e-mail, the Lotus Notes 8 client has the facility to recall e-mails that have been sent to other Lotus Notes users.

Note that users can only use this feature if it has been enabled on the Lotus Domino server and configured for use in their mail policy. See section 3.2.1, “Message recall” on page 88.

This facility is available from the Sent view of the mail folder, as shown in Figure 2-38. Note that the sender's copy of the e-mail is required to collect the information required, which locates the recipient's copies. If the e-mail was not saved before it was sent, it cannot be recalled.

To recall an e-mail, highlight the e-mail in the **Sent** view and click the **Recall Message** action.

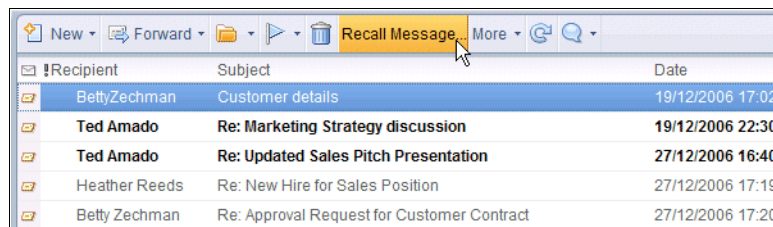


Figure 2-38 Recall Message action

A window opens for you to select the users from whom you want to recall the e-mail (Figure 2-39). You can also indicate whether you want to recall an e-mail even if it has been read. Note that this is possible if your mail policy has been configured to allow the recall of read mail. See section 3.2.1, “Message recall” on page 88 for more information.

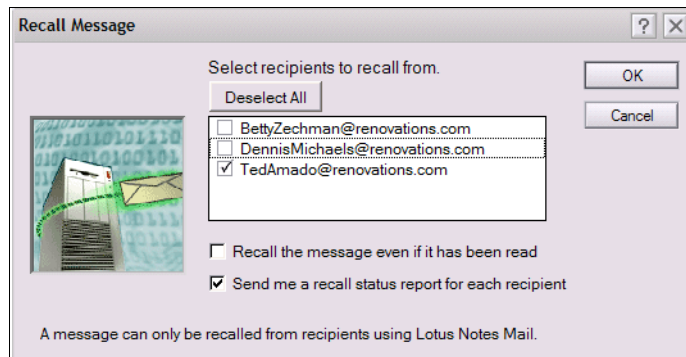


Figure 2-39 Recall Message window

If you select the option to receive a recall status report, you receive a report for each recipient from whom you have recalled the e-mail, similar to the one shown in Figure 2-40 on page 54.

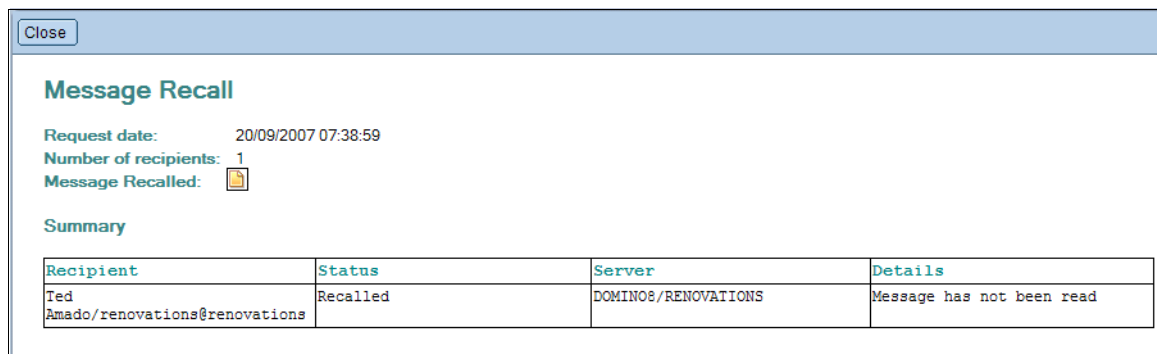


Figure 2-40 Message Recall report

For a detailed explanation of this feature and recall conditions, see the following document at:

<http://www.ibm.com/developerworks/lotus/library/notes8-recall/>

2.4 Improved Out of Office

The Out of Office function has been enhanced in Lotus Notes and Domino 8 both in terms of performance and flexibility of configuration. For details about the performance enhancements, see section 3.2.2, “Enhanced Out of Office service” on page 90.

From the client configuration perspective, the Out of Office interface has been refreshed and enhanced (Figure 2-41 on page 55). You now have options to set the hours at which you will be leaving and returning to the office.

When the Out of Office time period expires, you no longer have to disable your Out of Office notification. This is done for you automatically, reducing the number of administrative tasks to complete on your return to the office after a period of absence.

Additionally, if you delegate administration of your calendar to an assistant, he or she can now enable or disable Out of Office on your behalf.

For detailed information about the new Out of Office feature, see the following URL at:

<http://www.ibm.com/developerworks/lotus/library/notes8-ooo/>

Enable and Close Save and Close Cancel

Use out-of-office notification to send an automated reply to incoming messages while you are away. The notification service sends replies only between the leaving and returning times you specify and sends only one reply to each sender. You must click Enable and Close to start the notification service.

Out-of-Office Notification Status: **Off**

Leaving: Today Specify hours 15:00

Returning: Tomorrow 10:00

I am unavailable for meetings

Alternate Notification: No one will receive an alternate notification

Exclusions: You have specified no exclusions

Standard Notification | Alternate Notification | Exclusions

Specify the contents for the out-of-office notification.

Subject: (returning 19/09/2007 10:00)

Append return date to subject

Body: I am out of the office from 18/09/2007 15:00 until 19/09/2007 10:00.

Additional body text:

Figure 2-41 Out-of-Office notification

2.5 Calendar

The calendar view has a fresh interface and new and improved features.

2.5.1 View navigation

You can select the calendar views from the left navigator (Figure 2-42), making this consistent with the navigation facilities in mail and other standard Lotus Notes databases.

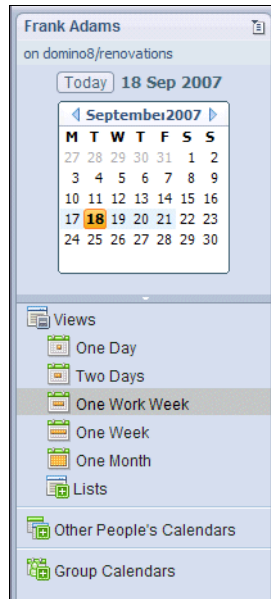


Figure 2-42 Calendar view navigation

2.5.2 Action bar

To provide consistency across mail and calendar, the same techniques are used in the calendar interface to make the calendar simple and intuitive to use.

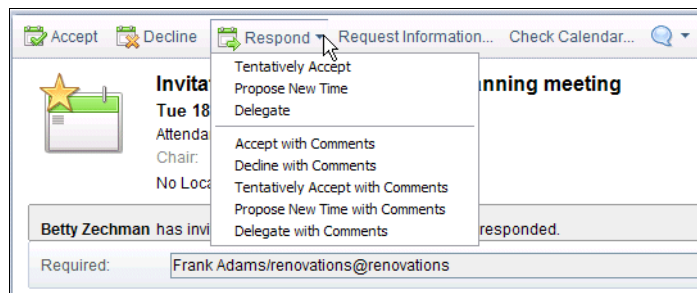


Figure 2-43 Calendar: Single and two-click actions

As with the mail interface, in most cases, common actions are carried out with a single click, leaving easily accessible, two-click actions for less frequently used tasks. For example, from within an unprocessed calendar invitation, you have single-click actions to “Accept” or “Decline” the invitation. However, if you must give a different response, the additional options are easily accessible with two-click actions available from the “Respond” action (Figure 2-43).

2.5.3 Display of all-day events

All-day events now display over the whole day (Figure 2-44 on page 57), making it obvious at-a-glance that this time is already scheduled. The title of an all-day meeting remains at the top of the page, regardless of the part of the day that you are viewing in the calendar.

Therefore, you are aware of the all-day meeting topic without having to scroll back to the beginning of the day to find it. The same is true for anniversaries.

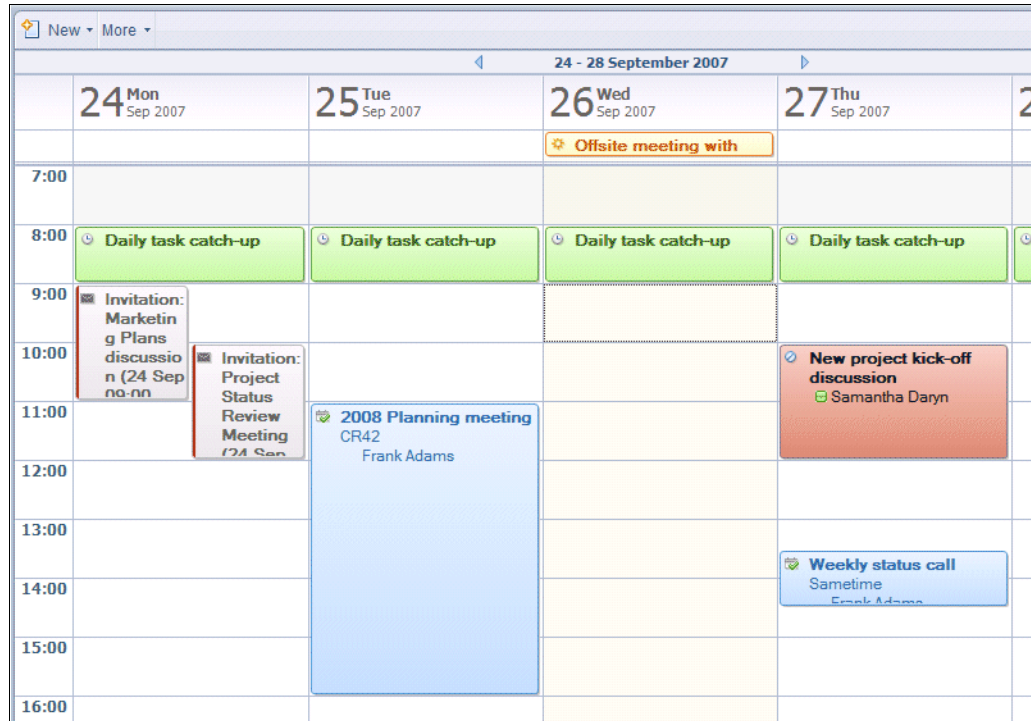


Figure 2-44 One work week view showing calendar entry status

2.5.4 Manage new invites from your calendar view

It is now possible to have unprocessed meeting invitations. That is, those that have been received but not accepted, appear on the calendar alongside other meetings and appointments. This might be useful for users who receive a large number of meeting invitations and must see where there are overlaps in their schedule before selecting which meetings to accept.

This feature is not turned on by default. You must configure it in the calendar preferences, as shown in Figure 2-45 on page 58.

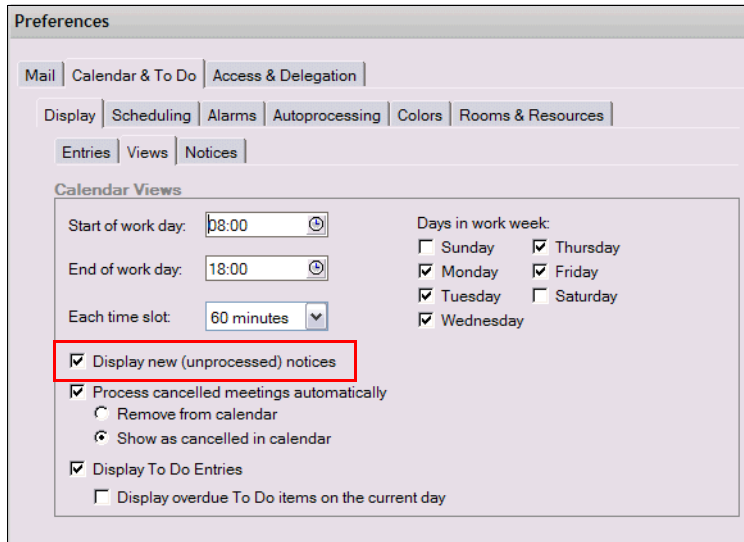


Figure 2-45 Calendar preferences

When this has been configured, unprocessed meetings appear in the views in a different color from accepted meetings. In Figure 2-44 on page 57, you can see the two unprocessed meetings displayed in light grey with closed envelope icons in the top-left corner, while the accepted meetings are displayed in blue with the people icons in the top-left corner.

2.5.5 Show cancelled invitations on your calendar

With previous versions of Lotus Notes, you can select to have cancellations for meeting invitations processed automatically when they are received in your inbox. With Lotus Notes 8, this feature has been enhanced to allow you to specify whether you want to keep the cancelled invitation showing on your calendar or not. This keeps a record of the cancellation in your calendar, where you are more likely to look for information regarding your schedule, rather than in your inbox. This is configured through the calendar preferences, as shown in Figure 2-46.

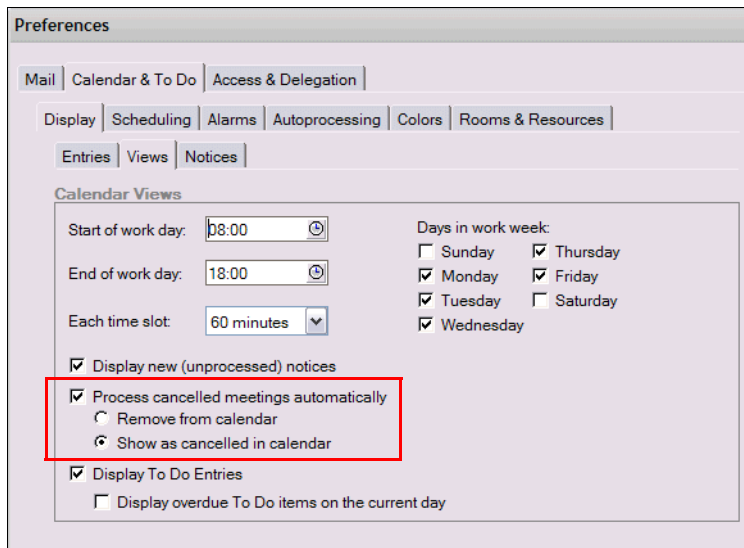


Figure 2-46 Calendar preferences: Show cancelled meetings on your calendar

In Figure 2-44 on page 57, you can see the cancelled meeting displayed in a red and brown color with a no-entry symbol in the top-left corner. If you open the cancelled meeting, it is removed from your calendar.

2.5.6 Check schedule

With Lotus Notes 8, you can check your schedule at the time that you are creating a meeting invitation, as shown in Figure 2-47.

This provides quick access to your calendar if you want to see how the meeting you are scheduling fits in with other events and tasks you already planned. Note that you can also use the sidebar calendar to check your schedule.

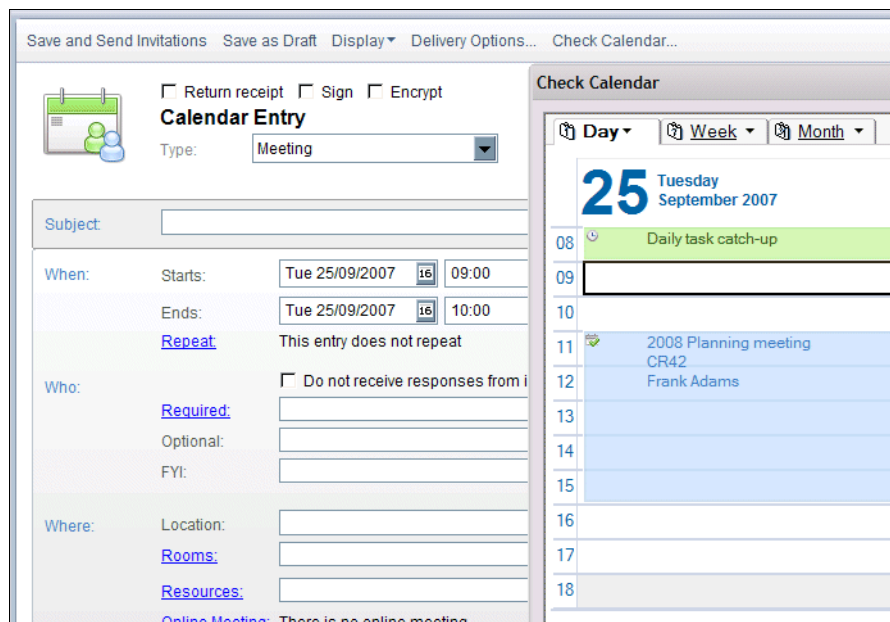


Figure 2-47 Check calendar during meeting creation

2.5.7 Locate free time for subset of invitee list

If you are setting up a meeting for a large number of invitees, it is not easy to find a time slot in which all the invitees are free.

Lotus Notes 8 keeps the required invitee list, selects the key users who need to attend the meeting, and easily identifies a time slot that is convenient for all of them.

For example, as shown in Figure 2-48 on page 60, there is no free time that all attendees can make during the period being viewed.

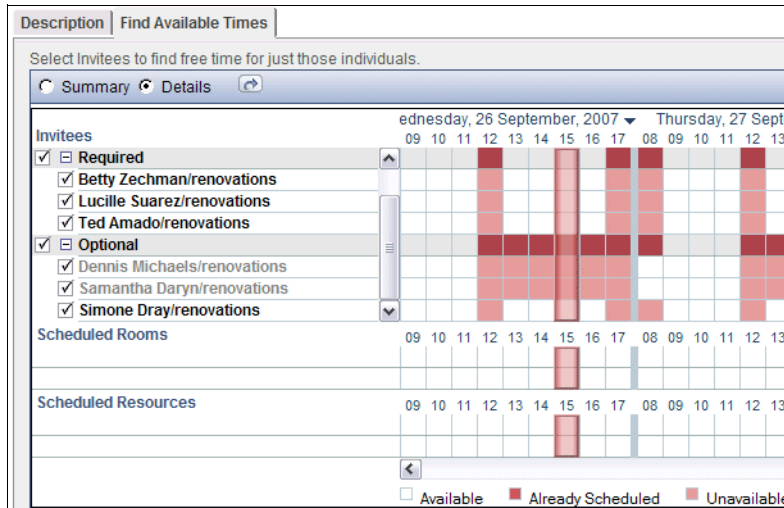


Figure 2-48 Searching for free time with everyone selected

However, as shown in Figure 2-49, if users for whom attendance at the meeting is not vital are deselected from the invitee list, it is possible to find a time that is free, indicated by the green bar, for the rest of the users.

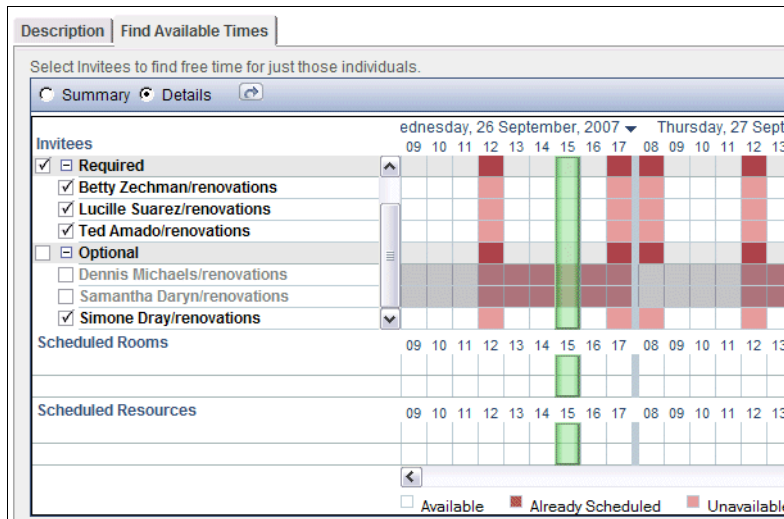


Figure 2-49 Searching for free time with only key people selected

2.6 Contacts

The personal address book, NAMES.NSF, on your client machine has been renamed "Contacts" to better reflect the contents and purpose of the database and includes new and improved features.

2.6.1 Contact form

An updated Contact form in the new "Contacts" database gives you more flexibility in the information that you store about your contacts.

More fields are available for storing information when editing a contact record, as shown in Figure 2-50. However, those that do not contain data are suppressed when viewing the record to give a more compact view of the information (Figure 2-51).

Contact Name: Samantha Daryn
Company Name: Renovations **Job Title:** Promotions Coordinator

E-mail:
 Business: SamanthaDaryn@renovations.com
 Personal:
 Assistant:
 Business 2:
 Personal 2:

Phone Numbers:
 Business: 1-301-555-6104
 Home:
 Mobile: 1-301-555-3112
 Fax: 1-301-555-4244
 Pager:

Other Information:
 Messaging ID: Samantha Daryn/Renovations
 Department: Marketing Department
 Location: Chicago
 Manager:
 Assistant:
 Website:
 Blog Site:

Addresses:
 Business: 10352 International Drive
 Street:
 City: Chicago
 State/Province: IL
 ZIP/Postal code: 60603
 Country/Region: USA
 Personal:
 Street:
 City:
 State/Province:
 ZIP/Postal code:
 Country/Region:

Category:

Figure 2-50 Contact form when editing

Samantha Daryn
 Renovations — Promotions Coordinator
 SamanthaDaryn@renovations.com
 1-301-555-6104

E-mail
 Business: SamanthaDaryn@renovations.com

Addresses
 Business: 10352 International Drive
 Chicago, IL 60603
 USA

Phone Numbers
 Business: 1-301-555-6104
 Mobile: 1-301-555-3112
 Fax: 1-301-555-4244

Other Information
 Messaging ID: Samantha Daryn/Renovations
 Department: Marketing Department
 Location: Chicago

Figure 2-51 Contact form when reading

Different countries have varying conventions for how an address is formatted. With Lotus Notes 8, you have the option to select the address format that is appropriate for each contact (Figure 2-52).

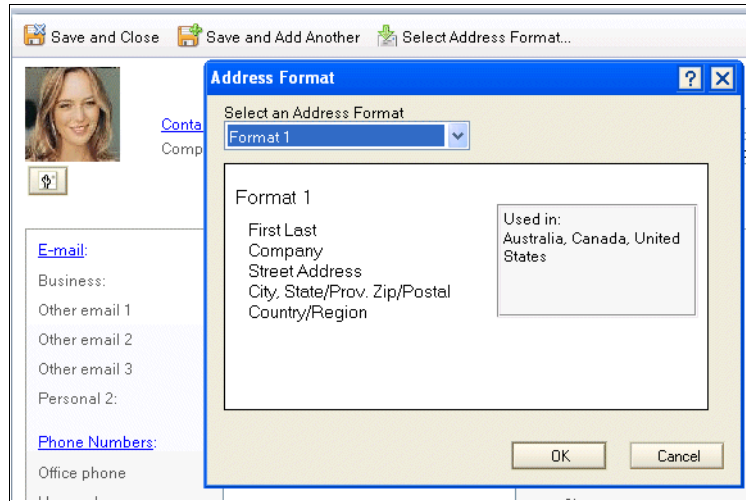


Figure 2-52 Select Address Format

You also can change the titles associated with any of the information that is held in the Contact form to more closely reflect the information that you want for the contact, as shown in Figure 2-53.

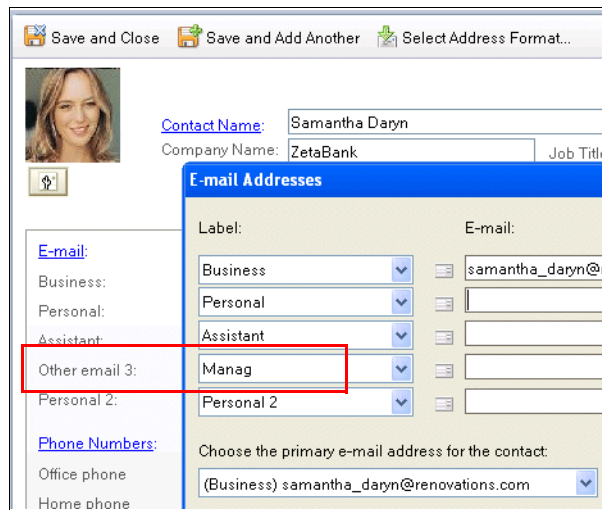


Figure 2-53 Changing headings in the Contact form

With Lotus Notes 8, you can store a photo in your contact record by clicking the icon in the top-left corner of the Contact form, as shown in Figure 2-54.

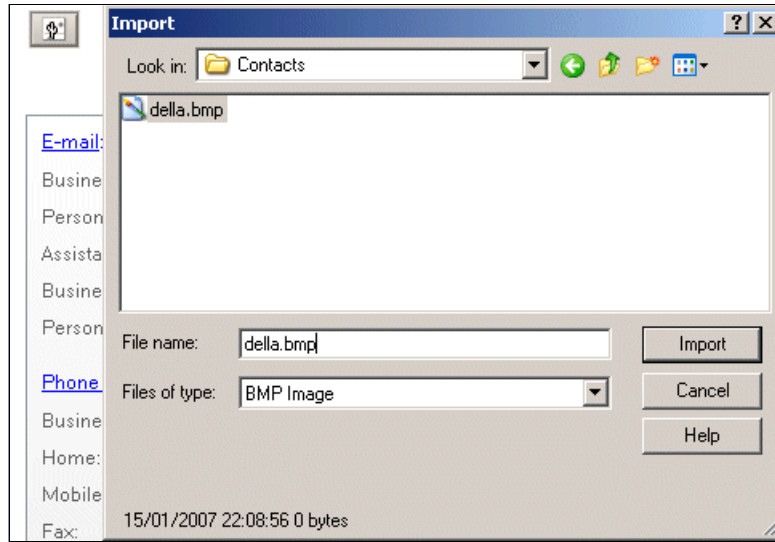


Figure 2-54 Insert contact picture

2.6.2 Business card view

To help you quickly locate the contact information you need, Lotus Notes 8 can display contact information in a business card view, as shown in Figure 2-55. This helps you quickly scan through contacts and potentially identify all the information you need from the business card, rather than having to open up the contact record. If want to open the contact record to get further information, double-click the business card.

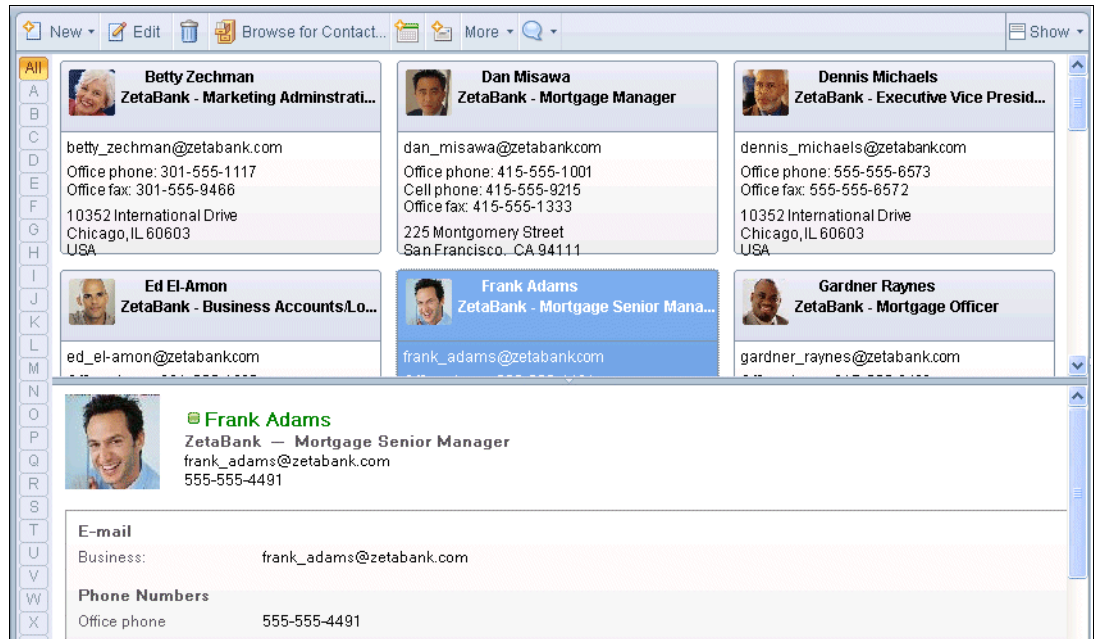


Figure 2-55 Business card view

2.6.3 Contact delegation

If required, your colleagues can access your contact information. Your contact information is stored and synchronized with your mail file. This is configured through the contacts preferences dialog as shown in Figure 2-56

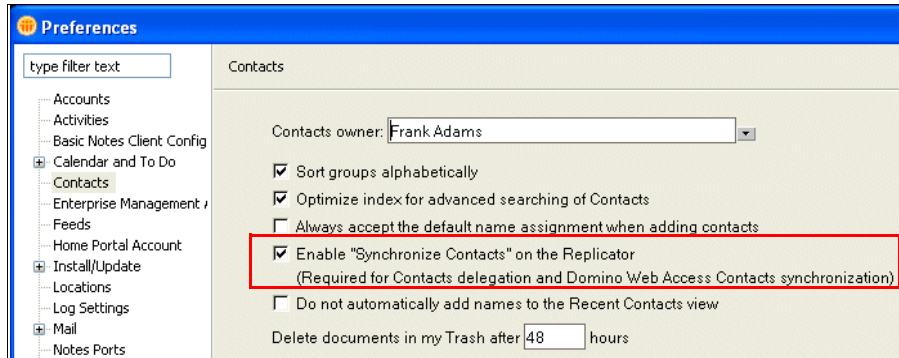


Figure 2-56 Configuring contact synchronization

When this configuration has been completed, the Synchronize Contacts option on the Replicator is enabled and in the next replication, your contacts are synchronized with your mail file as shown in Figure 2-57.

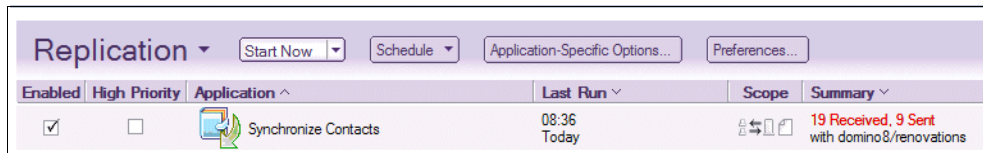


Figure 2-57 Contact synchronization

Within your access and delegation preferences, you can configure the access to your contacts for your colleagues as shown in Figure 2-58.

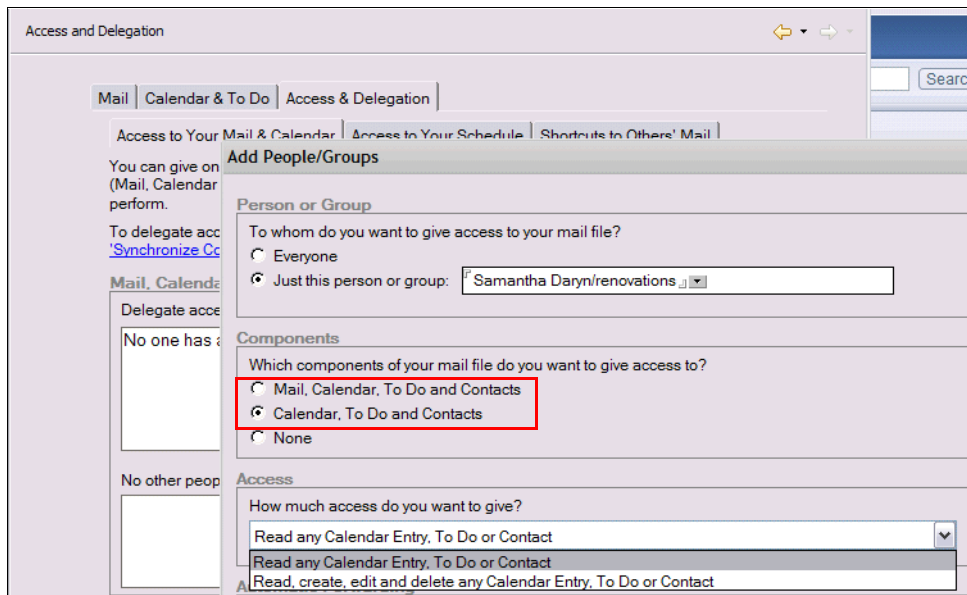


Figure 2-58 Access and delegation of contacts

Your authorized colleagues can access your contacts from their own Contacts database through the “Open Contacts” link as shown in Figure 2-59.

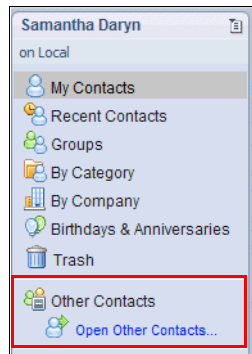


Figure 2-59 Open Other Contacts

2.6.4 Recent Contacts

Lotus Notes 8 now includes a “Recent Contacts” view, as shown in Figure 2-60. This lists all the people with whom you have been collaborating, regardless of whether or not you have their names listed in your local or server-based address book.

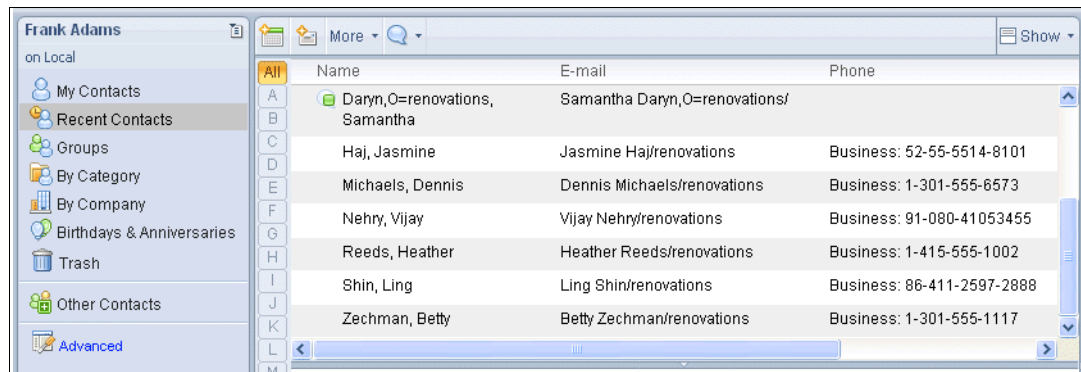


Figure 2-60 Recent contacts

If you select the option to **Synchronize Contacts** on your replicator page, as shown in Figure 2-57 on page 64, any changes to phone numbers or other location information held on the Lotus Domino server for your list of recent contacts is replicated to your client to provide you with the latest information available.

The Recent Contacts view is used as the source for the drop-down menu when you are addressing e-mails, as shown in Figure 2-32 on page 50, or setting up meeting invitations. Therefore, you can automatically select the e-mail address of anyone who has sent you an e-mail, or who has been copied on an e-mail sent to you. You can pull this into an e-mail or meeting invitation that you are addressing.

2.7 Lotus Symphony

Lotus Notes 8 includes, at no extra charge, a suite of office productivity tools that allow users to create, edit, and collaborate on a wide variety of file types.

The Lotus Symphony editors support the OASIS Open Document Format (ODF), which is being embraced across businesses, organizations, and governments around the world. ODF is an international standard for saving and sharing editable documents, such as word-processing documents, spreadsheets, and presentations.

The Lotus Symphony editors provide interoperability and flexibility by offering support for multiple file formats. You can read and save to Microsoft Office files and read from IBM Lotus SmartSuite® documents. You can save both to ODF format for sharing with ODF-compliant applications and solutions or export to PDF format.

ODF can access, use, and maintain your documents over the long term without concern about end-of-life uncertainties or ongoing license fees. By using ODF-compatible tools, you are not locked into one particular vendor for your productivity tools and you do not have to license, deploy, manage, and integrate multiple solutions. This lowers the total cost of managing documents within your organization.

2.7.1 Launching Lotus Symphony editors

The Lotus Symphony editors are embedded in the Lotus Notes 8 client, giving you flexibility and easy access to the editors. You can launch them from within the client in several ways.

You can launch the editors from the Open list, as shown in Figure 2-61.

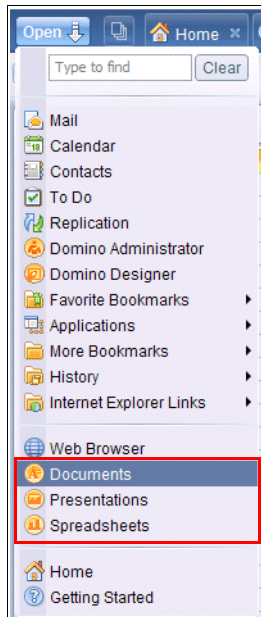


Figure 2-61 Launch Documents from the Open list

You can also select **File** → **Open** → **File** as shown in Figure 2-62.

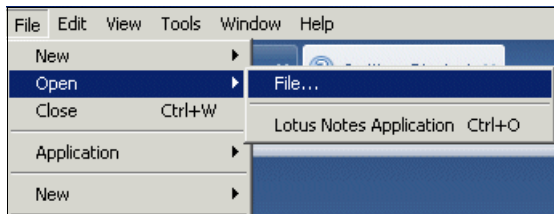


Figure 2-62 Launch documents from the File menu

In addition, you can launch the productivity tools from attachments in Lotus Notes documents, as shown in Figure 2-63.

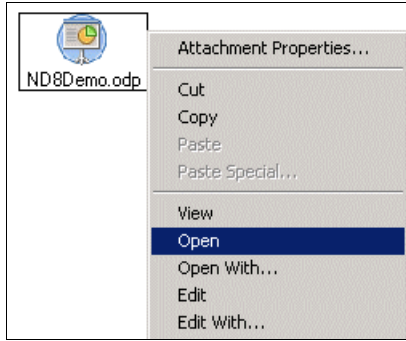


Figure 2-63 Launch documents from attachments

However, you can also launch the Lotus Symphony editors even if you do not have the Lotus Notes 8 client running, either from the Start menu or desktop icons, as shown in Figure 2-64.

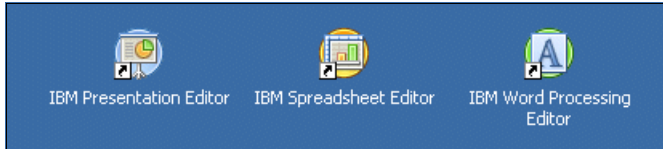


Figure 2-64 Launching documents from your desktop

Or, launch it directly from the operating system, as shown in Figure 2-65.

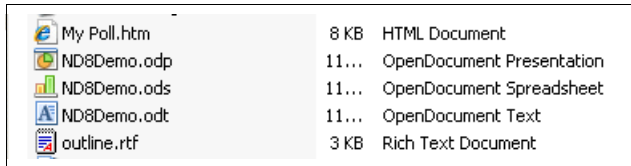


Figure 2-65 Launch documents from the operating system

2.7.2 Presentations

The presentation editor lets you create professional slide shows that can include charts, drawing objects, text, multimedia, and a variety of other items, as shown in Figure 2-66.

Templates are included to help you create professional-looking slides. You can also assign a number of dynamic effects to your slides, including animation and transition effects, and then publish your pages on-screen as handouts or as HTML documents.

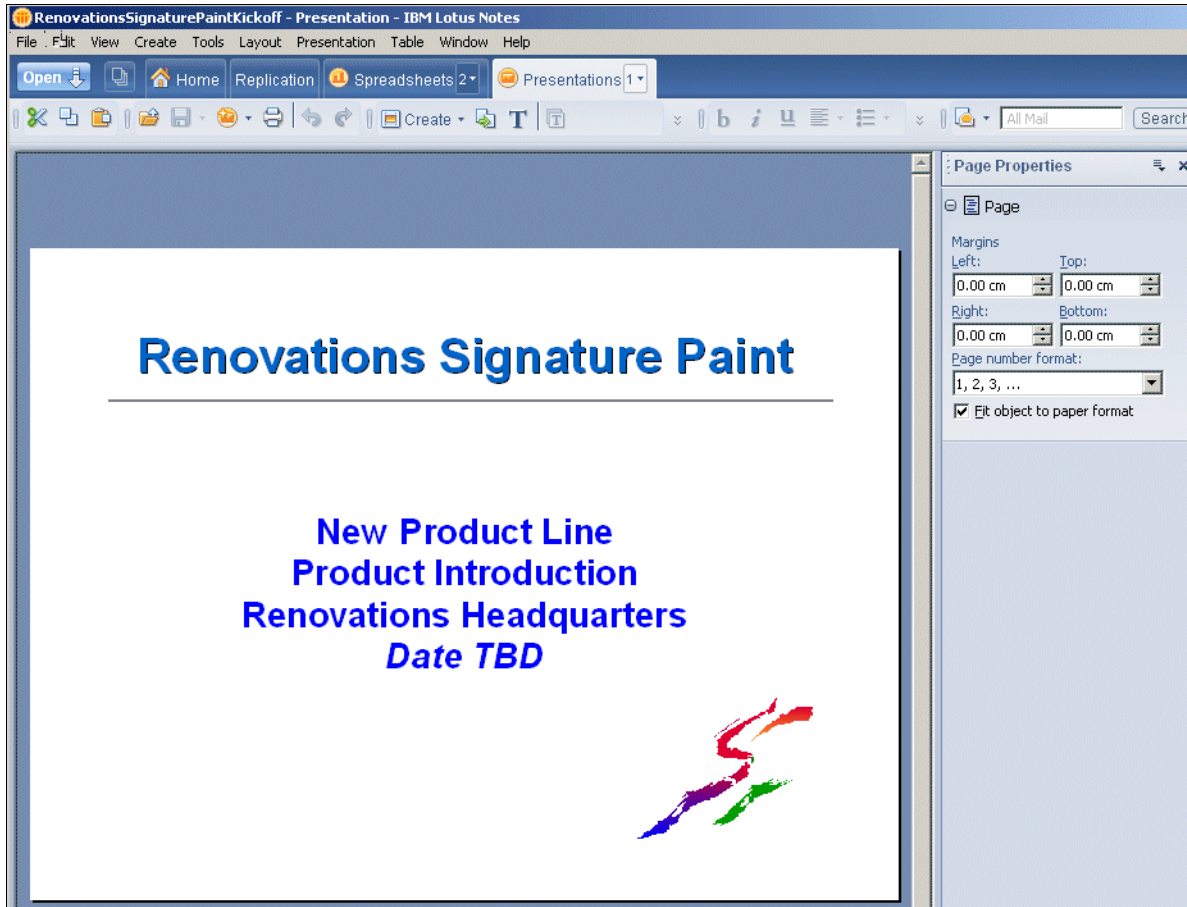


Figure 2-66 Lotus Symphony: Example presentation

Supported formats

Lotus Symphony presentations can open, edit, and save documents in the following formats:

- ▶ OpenDocument Presentation (.odp)
- ▶ OpenDocument Presentation Template (.otp)
- ▶ IBM Presentation (.sxi)
- ▶ IBM Presentation Template (.sti)
- ▶ Microsoft Word 97/2000/XP Presentation (.ppt)
- ▶ Microsoft Word 97/2000/XP Presentation Template (.pot)

Additionally, Lotus Symphony presentations can open documents in the following formats. However, if you edit them, you must save them in one of the formats listed above:

- ▶ Lotus Freelance Presentation (.prz)
- ▶ Lotus Freelance Presentation SmartMaster Look Template (.mas)
- ▶ Lotus Freelance Presentation SmartMaster Content Template (.smc)

Additionally, Lotus Symphony presentations can export documents in Portable Document Format (PDF).

2.7.3 Spreadsheets

The spreadsheet editor is a spreadsheet application that calculates, analyzes, and manages your data (Figure 2-67).

You are provided with several functions, including statistical and banking functions, that create formulas to perform complex calculations on your data.

With a few mouse-clicks, you can reorganize your spreadsheet to show or hide certain data ranges, format ranges according to special conditions, or quickly calculate subtotals and totals.

The spreadsheet editor lets you present spreadsheet data in dynamic charts that update automatically when the data changes.

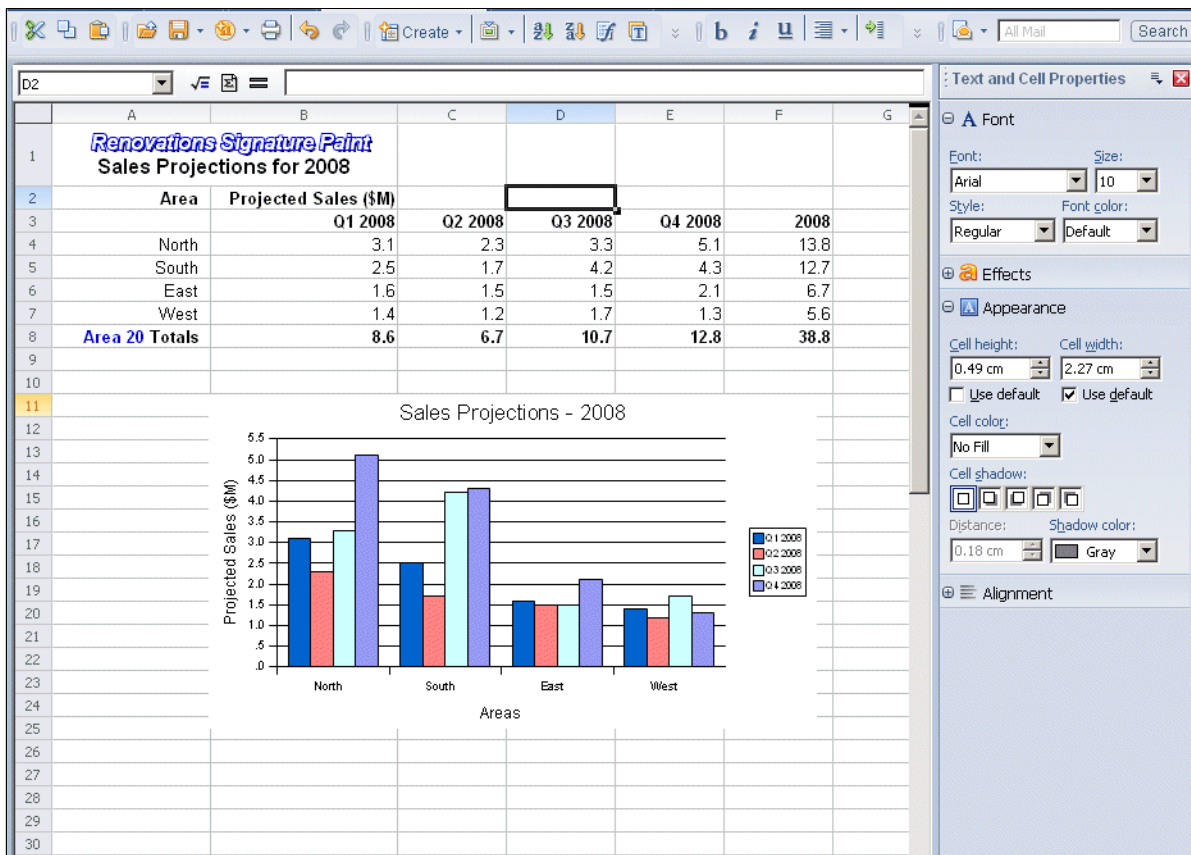


Figure 2-67 Lotus Symphony: Example spreadsheet

Supported formats

Lotus Symphony spreadsheets can work with documents in the following formats:

- ▶ OpenDocument Spreadsheet (.ods)
- ▶ OpenDocument Spreadsheet Template (.ots)
- ▶ IBM Spreadsheet (.sxc)
- ▶ IBM Spreadsheet Template (.stc)
- ▶ Microsoft Word 97/2000/XP Spreadsheet (.xls)

- ▶ Microsoft Word 97/2000/XP Spreadsheet Template (.xlt)
- ▶ Comma-Separated Text (.csv)
- ▶ Microsoft Excel® 2003 (.xml) -- open only; must be saved in another format after editing.

Additionally, Lotus Symphony spreadsheets can export documents in Portable Document Format (PDF).

2.7.4 Documents

The word processing editor lets you design and produce word processing documents that can include graphics, tables, or charts, as shown in Figure 2-68. You can then save the documents in a variety of specified formats.

The word processing editor lets you create both basic documents, such as memos, letters, resumes, as well as longer, complex documents, complete with bibliographies, reference tables, and indexes.

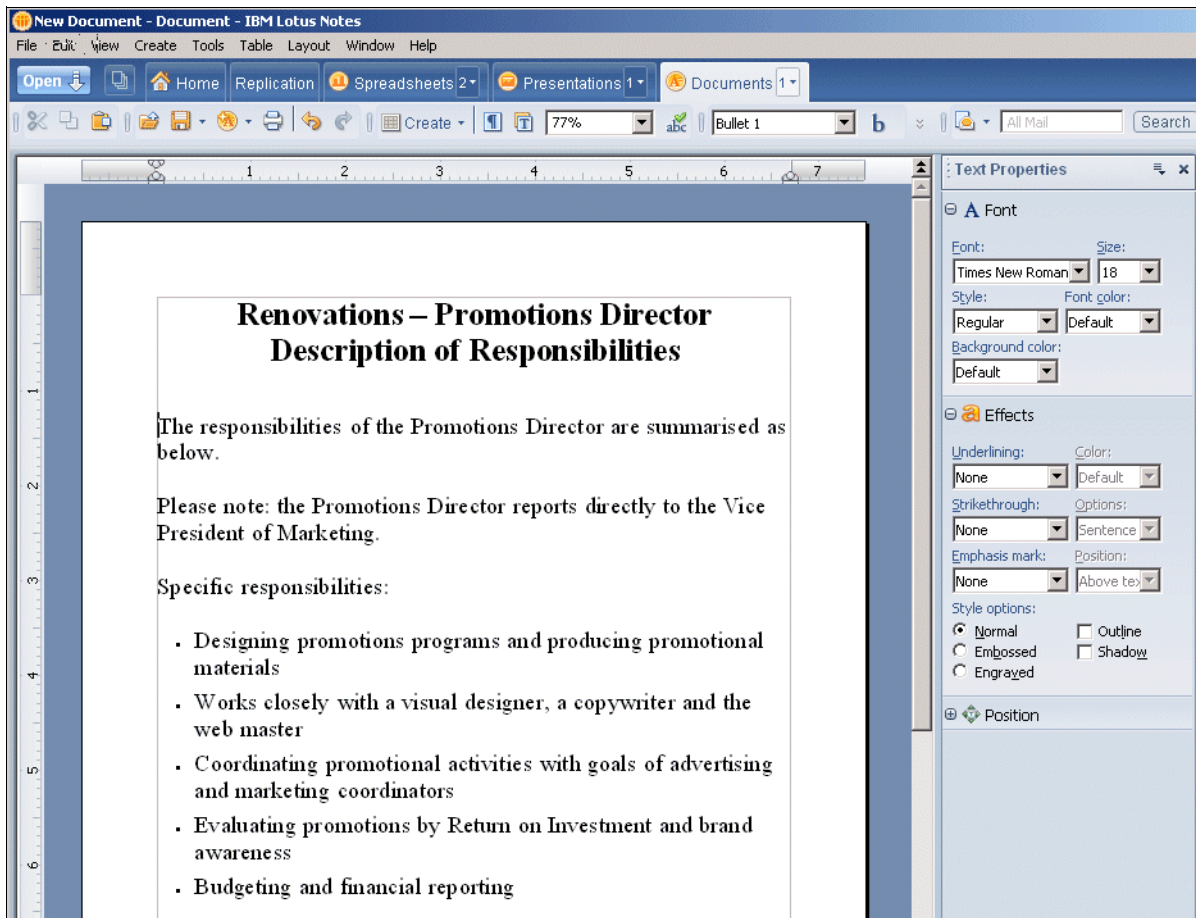


Figure 2-68 Lotus Symphony: Example document

Supported formats

Lotus Symphony Documents can work with documents in the following formats:

- ▶ OpenDocument Text (.odt)
- ▶ OpenDocument Text Template (.ott)
- ▶ IBM Word Processing Document (.sxw)
- ▶ IBM Word Processing Document Template (.stw)

- ▶ Microsoft Word 97/2000/XP Document (.doc)
- ▶ Microsoft Word 97/2000/XP Document Template (.dot)
- ▶ Lotus Word Pro® document (.lwp)
- ▶ Lotus Word Pro template (.mwp)
- ▶ Microsoft Rich Text Format (.rtf)
- ▶ Text (.txt)
- ▶ Microsoft Word 2003 (.xml) -- open only; must be saved in another format after editing.

Additionally, Lotus Symphony documents can export documents in Portable Document Format (PDF).

2.8 Sidebar plug-ins

On the right side of the window, there is a sidebar into which you can install plug-ins.

Four plug-ins are supplied with the Lotus Notes 8 client installation, as shown in Figure 2-69. Organizations can develop their own plug-ins for the sidebar to extend the interface to meet specific business requirements. See section 4.3, “Extending the Lotus Notes 8 Client” on page 154 for more information.

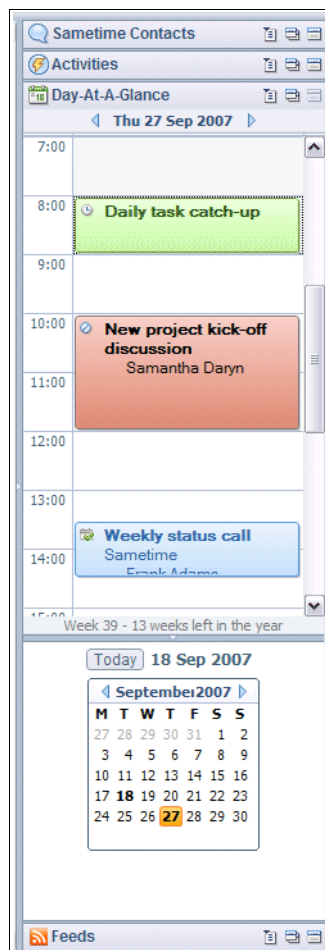


Figure 2-69 Lotus Notes 8 client sidebar

Activities

This plug-in allows you to view, access, and interact with your activities. See section 2.10, “Activities” on page 75 for more information about Activities.

Note: To use the Activities plug-in, you *must* have a Lotus Connections server.

Lotus Sametime Contacts

This plug-in accesses your instant messaging contacts list. See section 2.9, “Sametime Contacts” on page 74 for more information about the integrated instant messaging function.

Day-At-A-Glance

This plug-in navigates your calendar by selecting a day and month from the calendar picker, as shown in Figure 2-69 on page 71. The calendar entries for the selected day then appear in the window above it. If you do not select a day, the current day is selected and displayed by default. Note that as well as opening calendar entries, you can act on meeting invitations directly from the sidebar through the right-click menu as shown in Figure 2-70.

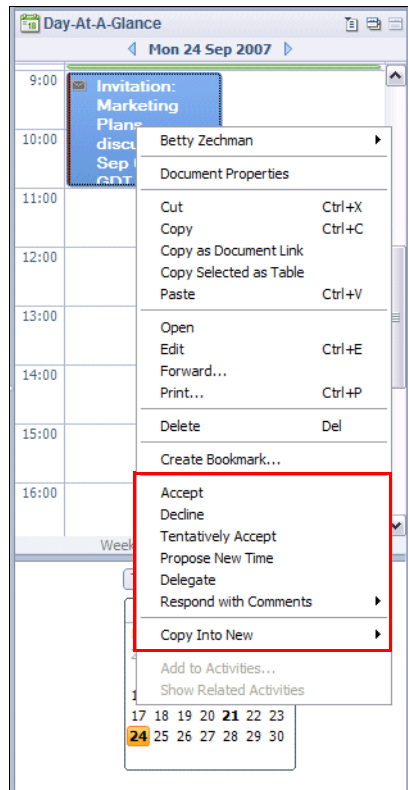


Figure 2-70 Act on calendar entries directly from the Day-at-Glance plug-in

Feeds

The feed reader plug-in is shown in Figure 2-71 on page 73. Users can scan information from their favorite news feeds to keep up-to-date on topics of interest. Note that the feed reader supports both Atom feeds and RSS feeds.

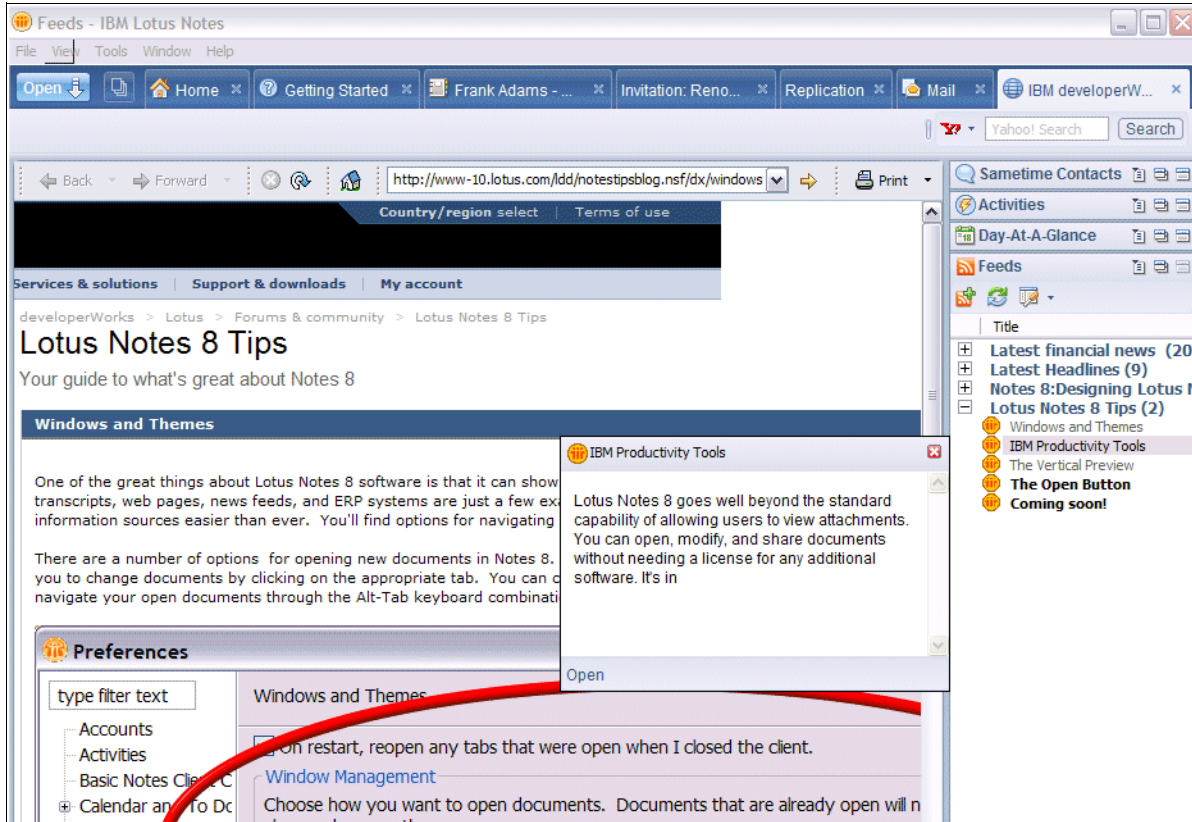


Figure 2-71 Example of Feeds plug-in and associated blog entry

A single click to the entry displays the first few lines of text from the entry in a preview window. Selecting **Open** from that window or double-clicking an entry in the Feeds list displays the content in a Lotus Notes or browser window, depending on what you configured as the Web browser in your Lotus Notes 8 preferences.

You can detach each of the sidebar plug-ins from the sidebar with the “Open in new window” plug-in option, as shown in Figure 2-72. With this option, users can move the plug-ins to different locations on the window and work in the way that they are most comfortable.

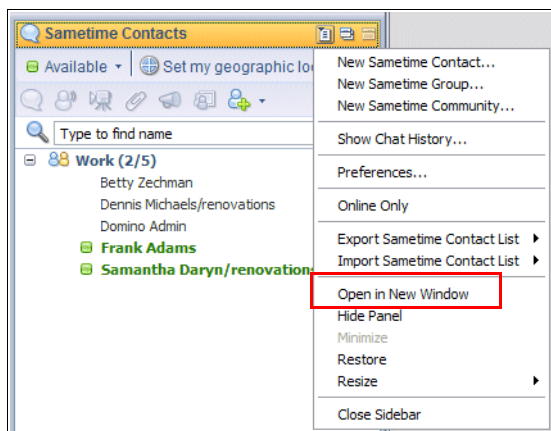


Figure 2-72 Open plug-in in new window

2.9 Sametime Contacts

With Lotus Notes 8, you get an instant messaging experience based on IBM Lotus Sametime Connect 7.5.1, as shown in Figure 2-73.

Note that if you are entitled to use the Lotus Sametime 7.5.1 Connect client, you can use all of the features from Sametime Connect through the Lotus Notes 8 client Sametime Contacts plug-in. If you are not entitled to use the Lotus Sametime Connect 7.5.1 client, you only see the features mentioned later. In either case, you need a Lotus Sametime server installed.

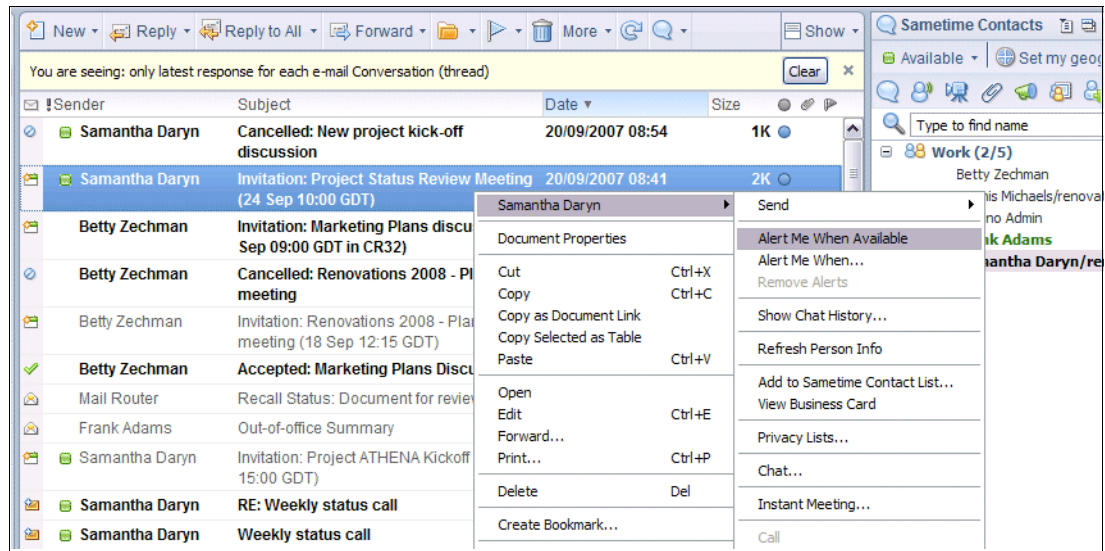


Figure 2-73 Instant messaging and presence awareness

The integrated instant messaging features include:

- ▶ Presence awareness within Lotus Notes mail, calendar, contacts, and included database templates. If you right-click any “live” name, you get a menu of actions you can take associated with that person, as shown in Figure 2-73.
- ▶ Instant messages with rich text editing capability, including the use of icons, spell checking, instant message history, and screen capture.
- ▶ Integration of the contact list into the Lotus Notes client sidebar, including the ability to add and delete contacts/groups.
- ▶ Ability to include plug-ins to further extend Sametime Contacts by integrating additional applications, as well as Sametime Contacts enhancements in the Lotus Notes sidebar.

For more information about the features available in Lotus Sametime 7.5.1, see the following Web site at:

<http://www.ibm.com/lotus/sametime>

Note: If you configure instant messaging settings in the Lotus Notes 8 client location document, the embedded instant messaging client that was available in Lotus Notes 6.5 or 7 opens. To avoid having two different Sametime user interface experiences, remove the settings from the location document. Log in to your Lotus Sametime server by selecting **File** → **Sametime** → **Log in to Sametime** from the Lotus Notes 8 menu, or from the Sametime Contacts sidebar menu.

2.10 Activities

Activities are about personal projects and tasks helping users to meet their deliverables on a daily, weekly, or monthly basis. Activities help organize your personal projects and tasks, coordinate with teams, and manage the flood of information that users have to deal with everyday.

Activities help consolidate work items to meet and produce a particular deliverable. It provides a lightweight mechanism that helps build best practices around personal tasks and projects in a more managed context, enabling users to more quickly close out activities and maintain an up-to-date view of their daily work. The benefits include:

- ▶ **Get organized with Activities:** Create an activity as a project management center and use the activity to store presentations, bulletins, and code samples. Use the activity to post schedules, track action items, and manage deadlines. Your project team will always know where to go for the latest information.
- ▶ **Integrate and extend Activities:** Although an activity does not depend on other tools, it works well with them to aid in efficient collaboration. Send an e-mail link from an activity to invite others to join or to request feedback. If your organization uses IBM Sametime, you can launch a chat from an activity for real-time communication. Your organization can also extend Activities with custom plug-ins to work with other tools.
- ▶ **You drive with the Activity:** Open and scan across your activities to get a quick update on what needs your attention. You can view, reply to, edit, tag, and manage the entries in an activity. The actions you perform on an entry depend on your role in the activity and whether you created the entry. If you are a member of many activities and want to focus on a subset, you can opt to tune out activities that do not require your attention.
- ▶ **Tune out the noise:** You can view just your activities, or browse through all available activities. Use tags, which are keyword references, to assign a meaningful name to activities you want to track. You can browse for activities by tag and by people.

Note: Activities is part of Lotus Connections. The Notes 8 client plug-in for Activities is included as part of the Lotus Notes 8 client, but the Activities server is not included in the Lotus Domino 8 server or Lotus Notes 8 client license.

2.10.1 Overview of Activities with the Lotus Notes 8 client

From the Lotus Notes 8 client, you can access an Activities server from your sidebar, as shown in Figure 2-74, where you can quickly and easily create activities to organize and share information without requiring the participation of IT administrators. Having access to Activities in a sidebar helps to focus attention on the tasks that need completing.

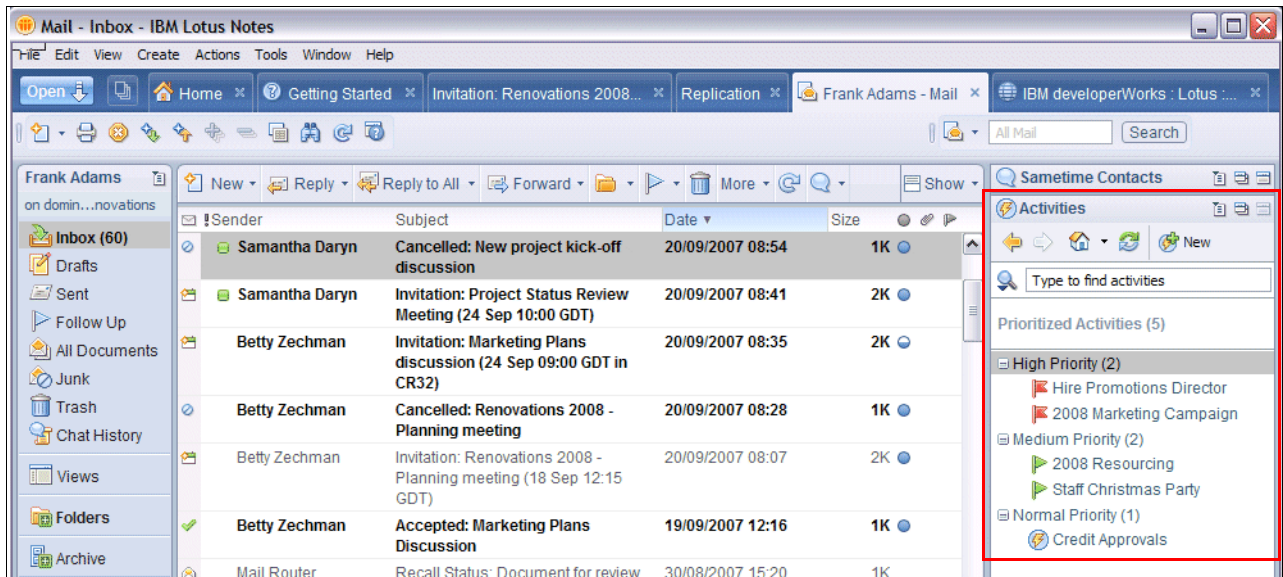


Figure 2-74 Activities sidebar

You can drag and drop files from your desktop and e-mails from your inbox, save instant messages, and post Lotus Notes document and database links or URLs into the activity, and instantly make the information available to all members of the activity. You can add additional members to the activity at a later date and they immediately see all of the information within the activity.

If some of the users that you must include in your activity do not have a Lotus Notes client, they can use the Web browser interface to Activities, which allows them to participate (Figure 2-75).

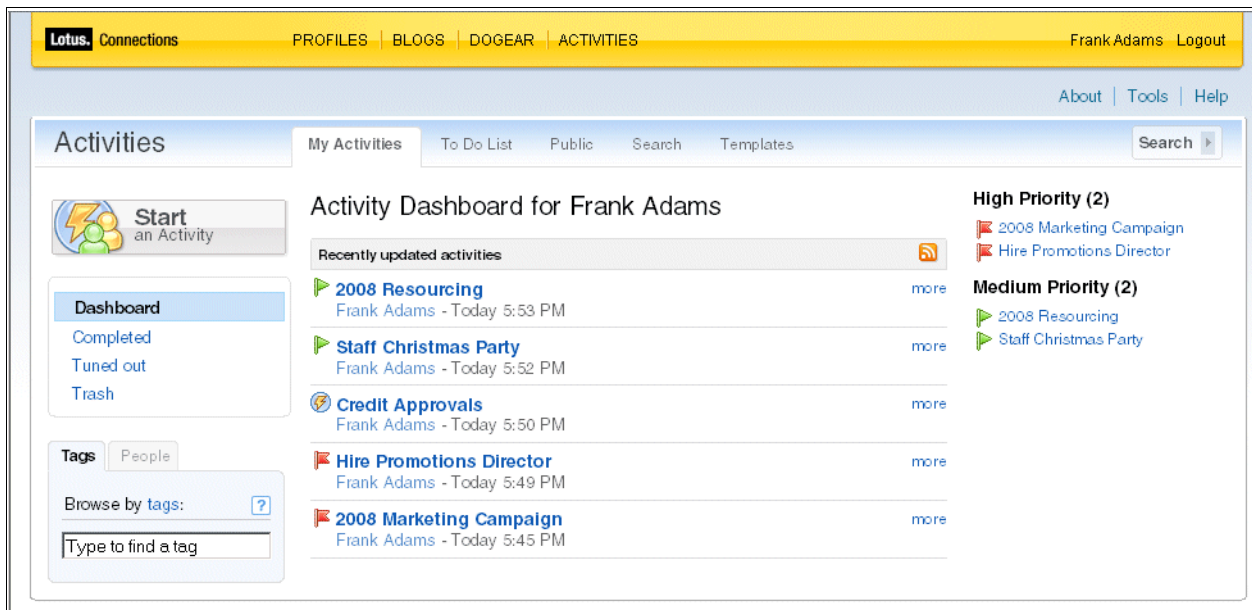


Figure 2-75 Browser interface

The Activity Dashboard is your home page on the Activities server. It serves as an inbox for your activities, listing all the activities you created or were invited to join. As activities are created or updated, they move to the top of the list. Activities that you tune out, or that are deleted or marked complete, are removed from the Dashboard and placed in a separate list (you can open these lists using the navigator to the left of the Dashboard page).

2.10.2 Working with Activities from Lotus Notes 8 client

This section describes the options you have for working with Activities from the Lotus Notes 8 client.

Logging in to Activities

You can set up your Lotus Notes 8 client to log in to your Activities server automatically through the preferences, as shown in Figure 2-76.

Note that the server URL is populated automatically by your administrator using a policy. See section 3.3.2, “Policy management enhancements” on page 98.

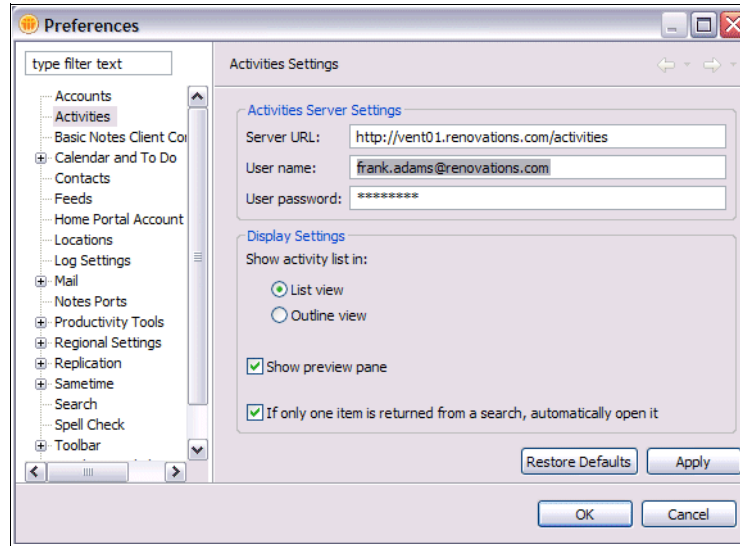


Figure 2-76 Activities Server Settings

Viewing Activities

You can see all of the activities of which you are a member in the Activities plug-in in the sidebar on the right side of the window, as shown in Figure 2-77. It serves as an inbox for your activities, listing all the activities you created or were invited to join. As activities are created or updated, they move to the top of the list. Activities that you tune out, or that are deleted or marked complete, are removed and placed in a separate list.

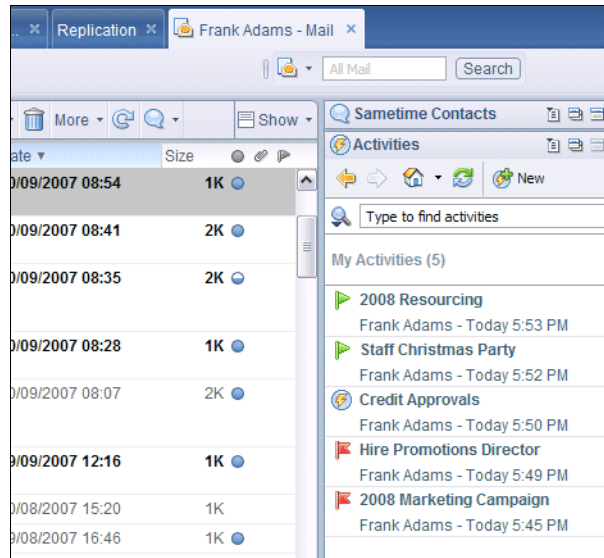


Figure 2-77 Activities list in sidebar

If you are participating in several activities, you might want to filter the activities that appear in this view so that you only see those you want to focus on, as shown in Figure 2-78.

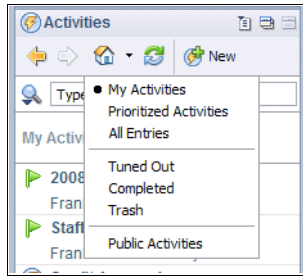


Figure 2-78 Filter options for Activities list

Creating activities

You can create activities by clicking the **New** button on the sidebar, as shown in Figure 2-79.

This opens up an Activity document to name your activity and to add the names of those who will be participating in the activity and to assign them the relevant access (owner, author, or reader). The type-ahead functionality, which is similar in addressing mail, is also available for selecting activity participants.

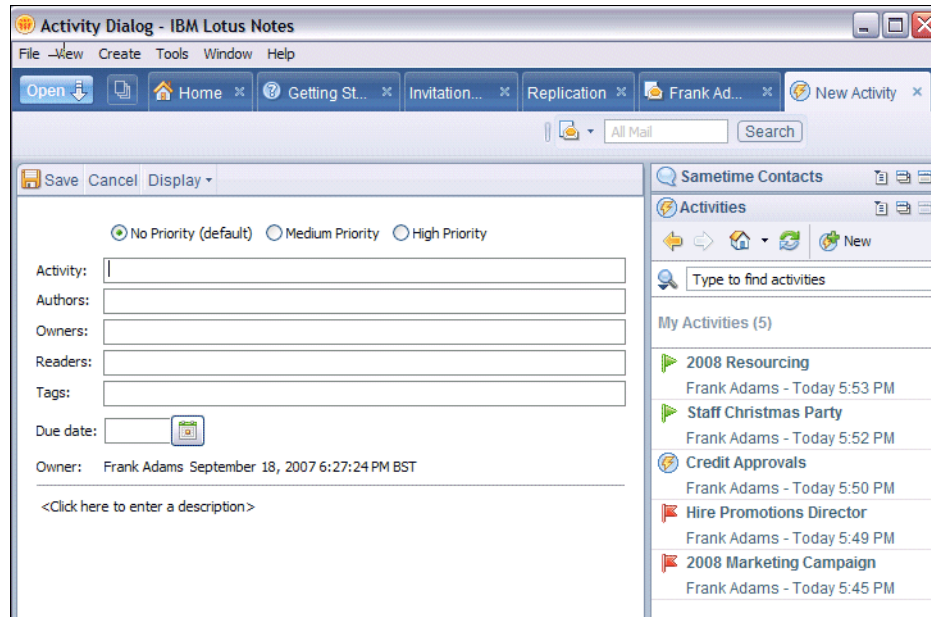


Figure 2-79 Creating an new activity

You can also create a new activity by dragging and dropping a file or e-mail from your Lotus Notes client to the Activities sidebar.

Membership

The membership of an activity determines who can access the activity and what they can do. You must be a member of an activity to see the activity, its entries, and its membership list. In most cases, you add members to an activity when you create it. People who are already members can later add other members.

When you add a member to an activity, you assign one of the following membership roles: *Owners*, *Authors*, or *Readers*. The person who creates the activity is automatically assigned the Owners role. Owners can add, modify, and delete any of the content or members of an activity. Authors can view and post entries and add members as Authors or Readers. Readers can view content and members, but they cannot add or modify them.

A person who has multiple membership entries in an activity receives the access rights associated with his or her individual membership entry, if one exists. For example, if Mary is part of a group that is added to the Authors role of an activity and she is also added by name to the Readers role of the activity, she is granted Reader-level access to the activity.

However, if a person is a member of two groups that were added as members and each of group has a different member role, the person receives the membership rights of the group with the higher level of access. So if Group A is added to the Authors role of an activity, and Group B is added to the Readers role, and John is a member of both groups, John is given Authors access to the activity.

2.10.3 Working with activity content from Lotus Notes 8 client

Clicking an activity in the sidebar opens the activity to display the content, as shown in Figure 2-80.

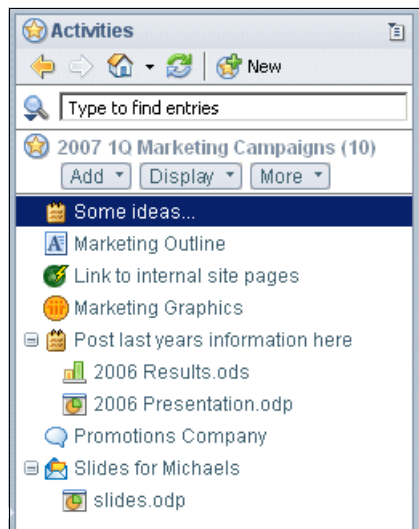


Figure 2-80 Activity content

You can add several types of information to the activity. The different types are indicated by the icons to the left of the entry. You can do this through the Add menu, as shown in Figure 2-81 on page 81, or by dragging and dropping files from your desktop. You can add information as a response to an existing entry and create a hierarchical structure within your activity.

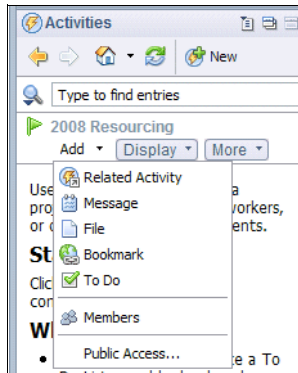


Figure 2-81 Adding to an activity

You can drag and drop Lotus Notes documents into an activity (or select **Add to activity** from the right-click menu). These are converted into Lotus Notes links. Activity members who have access to the database and the document can click these links and are taken straight to the document source.

You can also drag and drop e-mails into an activity. In this case, it is not a link to the original e-mail that is created, because it is unlikely that other activity members have access to your mail file. Instead, the content of e-mail is posted as a message within the activity so that all members can read the contents. If the e-mail contained attachments, these are saved as files in the activity and stored as responses to the message.

If your organization's ability to save instant message transcripts is permitted within the Lotus Sametime server policy, instant message transcripts are saved directly into an activity through the Activity icon on the instant message window, as shown in Figure 2-82.

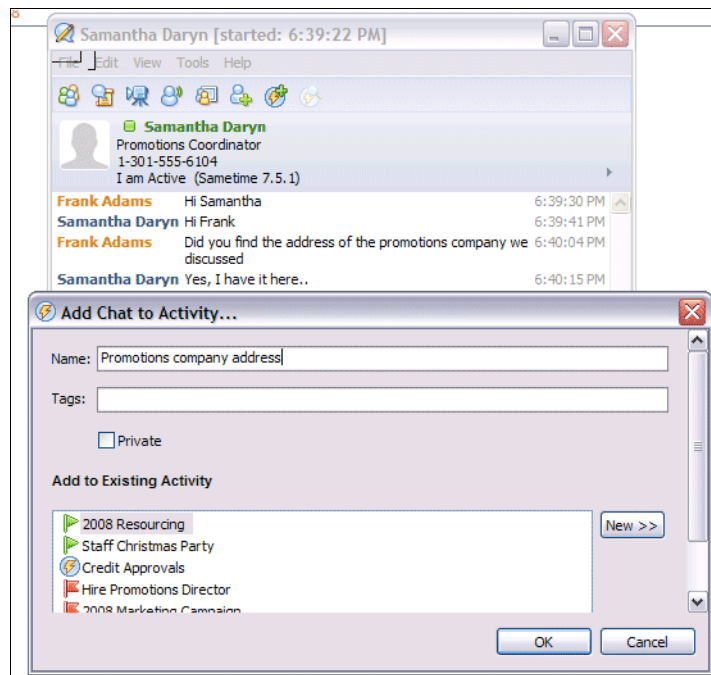


Figure 2-82 Save instant message transcript into an activity

When you click this icon, a window opens where you give the instant message transcript a title and select the activity to which it needs to be added.

In addition to posting content, you can categorize content by adding *tags* to it. You can use tags to group together content on a similar topic across all activities. You can add tags by right-clicking the entry that you want to tag and selecting **Edit Tags**, as shown in Figure 2-83.

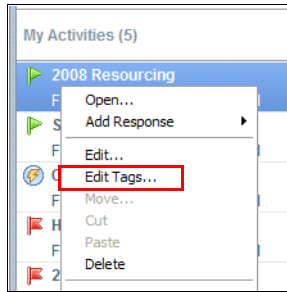


Figure 2-83 Adding tags to activities

2.10.4 Searching

You can use different criteria and methods to search your activities. For example, you can search activities by person or by tag from either the Lotus Notes 8 client or the Activities Web application.

You can only search activities of which you are a member. Search results do not include private entries in an activity.

From the Activities Web application, you can use the search bar to perform a full-text search of your activities. From the Lotus Notes 8 client, you can search for activities that include a specific person or that are tagged with a certain term. Additionally, from the Lotus Notes 8 client, you can search for an activity or activity entry by its name, and you can search for the activities that you have in common with one of your Sametime contacts. Ways to search activities include:

- ▶ Browsing activities by person: You can browse activities by person to find the activities that someone belongs to or the entries that person has posted.
- ▶ Browsing activities by tag: You can browse activities by tag to find activities or activity entries that use that tag.
- ▶ Searching names and descriptions: You can search for text in the names and descriptions of activities or activity entries.

2.10.5 Mail notifications and subscriptions

When you add a member to an activity, he or she receives an e-mail notification as shown in Figure 2-84 on page 83.

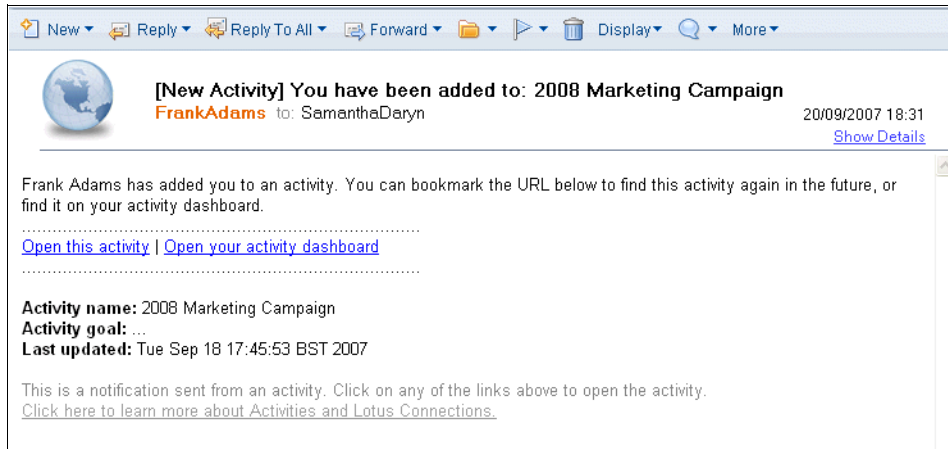


Figure 2-84 Activity mail notification

From the Web browser, any member of an activity can notify other members about any entry in the activity. When you send a notification, the server creates an e-mail message and automatically sends it to the members you select. The server can send notifications to current members of the activity only.

Using the feed reader, you can subscribe to a feed for any page in your activities that interests you. After you subscribe to a feed, your feed reader monitors it and automatically retrieves updates for you.

A feed is a way of representing and automatically delivering the latest content of a Web page directly to your computer. Activities uses a protocol called Atom to publish feeds. Subscribing to a feed simplifies the task of monitoring an activity because your feed reader automatically checks for and retrieves content updates for each feed.

2.11 Lotus Domino Web Access

This section highlights new features and enhancements to the IBM Lotus Domino Web Access software and the Web browser client alternative for using Lotus Domino mail, calendar, and personal information management (PIM) capabilities.

See Appendix C, “Lotus Domino Web Access Client comparisons” on page 175 for a comparison of the Lotus Domino Web Access features with the Lotus Notes 8 client and previous versions of Lotus Domino Web Access.

2.11.1 User interface

With Lotus Domino 8, the Lotus Domino Web Access interface has been updated with an interface similar to the Lotus Notes 8 client, as shown in Figure 2-85 on page 84. In fact, the default mail template (MAIL8.NTF) for Lotus Notes 8 provides support for Lotus Domino Web Access 8. The fonts, color scheme, and icons are also more consistent with WebSphere Portal.

Lotus Domino Web Access 8 offers a new preview pane that lets you preview the text of your e-mail messages as you scan through your inbox. As with Lotus Notes 8, you can choose to display the preview pane horizontally, vertically, or not at all.

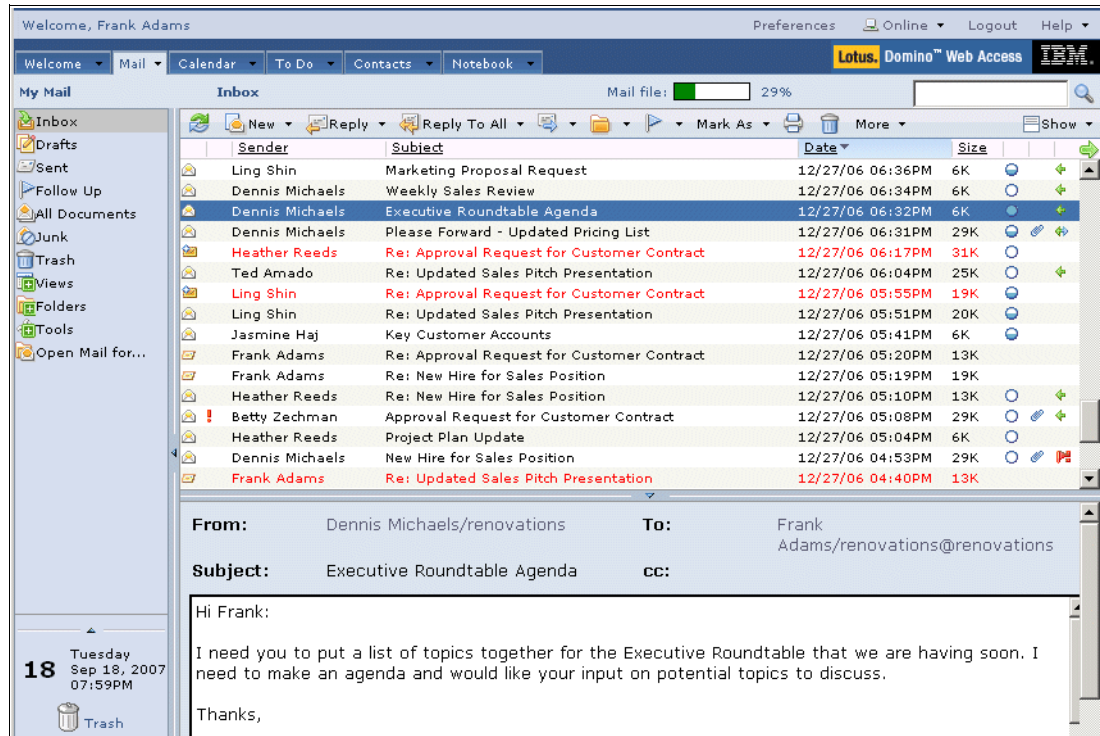


Figure 2-85 Lotus Domino Web Access: Mail

The integrated instant messaging capabilities of Lotus Domino Web Access are enhanced in version 8. You can use a convenient drop-down list to easily change your availability status or access your instant messaging contact list. Presence awareness icons are automatically refreshed in the Lotus Domino Web Access 8 inbox view.

2.11.2 Mail enhancements

Lotus Domino Web Access 8 supports the enhanced Out of Office capabilities of Lotus Domino 8 outlined in section 2.4, “Improved Out of Office” on page 54 and the ability to customize the mail header as described in section 2.3.6, “Mail header” on page 49.

Using the server-based mail thread support, Lotus Domino Web Access 8 mail threads are resilient and can include Internet mail messages.

With support for dynamic view column updates, you can specify a column (for example, subject) to automatically adjust its width. This feature enables you to see more of the content of this particular column.

In addition, Lotus Domino Web Access 8 publishes your inbox through an RSS or Atom feed by clicking an icon. You can view mail using other client software when you are away from your usual work environment or easily allow access to shared mail boxes.

2.11.3 Calendar enhancements

New calendar features in Lotus Domino Web Access 8 include calendar filters, preferred rooms and resources, and improved delegation capabilities (Figure 2-86 on page 85).

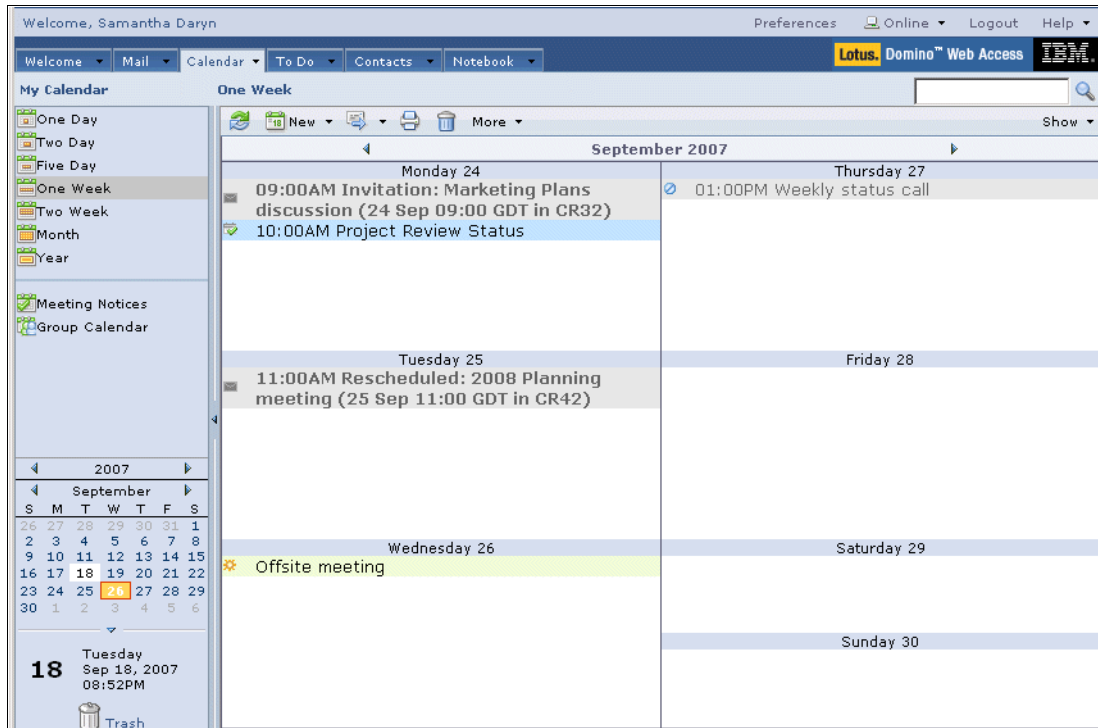


Figure 2-86 Lotus Domino Web Access: Calendar

Calendar filters give you the option to display your calendar entries by chairperson, by type (meetings, appointments, reminders, events, private entries), or by invitee status (confirmed or tentatively accepted).

Through your Lotus Domino Web Access 8 calendar preferences, you can set as a default the room or resource you prefer to use when you schedule meetings.

If you manage other people's calendars, you can easily access their calendars from within your own calendar.

2.11.4 Personal Information Management enhancements

You may choose to use Lotus Notes 8 in the office, but access your mail from a Web browser from home or when traveling. Lotus Domino Web Access 8 offers two features to easily keep your work in sync.

When you update the password in the Lotus Notes ID that is embedded in your mail file, Lotus Domino Web Access 8 automatically updates the Internet password. This management feature helps reduce the administrative burden of managing passwords.

Your Lotus Domino Web Access mail file is automatically synchronized with changes to your Lotus Notes 8 mail file, your business contacts in the Lotus Notes 8 Contacts database, and your notebook entries from the Lotus Notes 8 journal.

2.12 Lotus Notes 8 basic configuration

The system memory requirements for running the Lotus Notes 8 client with the Java-based interface are higher than those required for running previous versions of the Lotus Notes client. It is accepted that not all organizations will have the required workstation specifications throughout their organizations and, therefore, might not be able to upgrade to the Lotus Notes 8 client with the Eclipse-based interface configuration at this time.

However, for organizations who cannot take advantage of the Java-based interface configuration, it is still possible to install the Lotus Notes 8 client without this interface or to install the Lotus Notes 8 client with the Java-based interface. However, you cannot load the option until the workstation has been upgraded to the required specification. The system requirements for this configuration are the same as those for the Lotus Notes 6.5 and 7.x client.

Certain functions and features are not available with the Lotus Notes 8 “basic configuration”. The full list of features and their requirements is listed in Appendix A, “Lotus Notes 8 client feature requirements” on page 165.



Changes for the administrator

This chapter discusses the new and enhanced features in the Lotus Domino 8 server and the Lotus Domino 8 administrator client.

We discuss improvements in the following areas:

- ▶ “Improved messaging” on page 88
- ▶ “Lotus Notes client administration” on page 94
- ▶ “Lotus Domino server administration” on page 104
- ▶ “Improved efficiency and performance” on page 110
- ▶ “Directory” on page 115
- ▶ “Security features” on page 118
- ▶ “Integration with other IBM products” on page 121

3.1 Introduction

IBM development investments for major versions of IBM Lotus Notes and Domino software typically alternate between the client and server. The server was the major focus for Lotus Notes and Domino 7. Although the primary focus of version 8 is the client, new and enhanced capabilities of the Lotus Domino 8 server complement Lotus Notes 8 client innovations.

Server-managed provisioning capabilities provide the option to centrally manage deployment and upgrades of Lotus Notes 8 client software and composite applications. New configuration settings and policy management options provide greater flexibility and control over which users have access to which capabilities.

Many new features and enhancements reduce I/O and improve the efficiency of Lotus Domino servers. In addition, enhancements to familiar administration and monitoring tools improve efficiency and performance and better manage your environment.

Lotus Domino 8 software is designed with greater openness and interoperability than ever before, and new capabilities provide integration with other IBM software.

3.2 Improved messaging

This section describes the new and enhanced messaging features.

3.2.1 Message recall

This section discusses the server configuration required to enable message recall. For information about the user interface for the message recall feature, see section 2.3.13, “Message recall” on page 53.

The message recall feature provides Lotus Notes 8 client users with the ability to recall certain mail messages after they are sent. This feature is useful when a Lotus Notes client user has accidentally clicked Send and then needs to retract the mail to complete or modify the message content.

When the original message author recalls a message, a recall request is sent to the original recipients' mail servers. The router processes the recall request and then, if allowed to do so, deletes the original message. Messages are from users whose mail files are hosted on Lotus Domino 8 servers, whether they are in the same domain or another domain from which the original message was sent. These messages must be routed over Notes Remote Procedure Call (NRPC).

You can configure message recall for Lotus Domino 8 servers through the server configuration document. Therefore, if you use a single server configuration document for the entire domain, you can turn message recall on or off for the whole domain in one place, as shown in Figure 3-1.

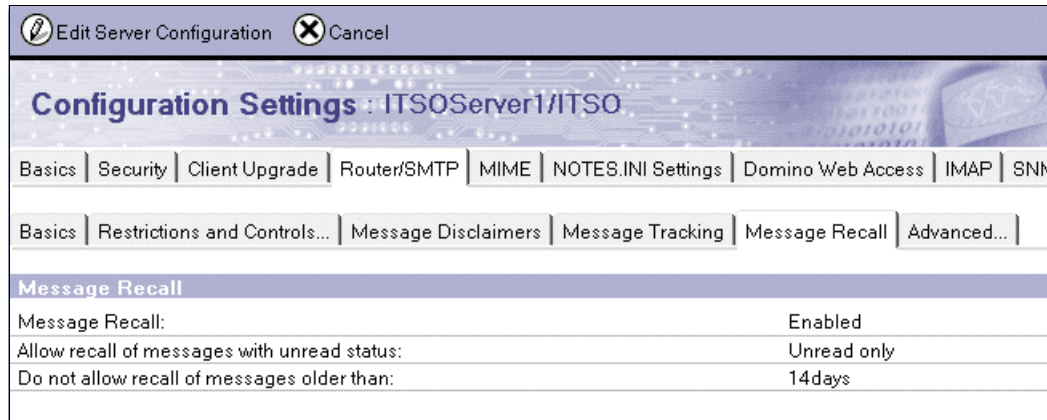


Figure 3-1 "Message Recall: Settings in server configuration document"

Here, you can configure whether to enable or disable the feature and, if enabled, whether to allow the recall of mail that has already been read. You can also define the time period during which a message is recalled after the date of delivery. This time period is weeks, days, hours, or minutes.

In addition to enabling the feature globally, or for a specific server, you can further refine these settings through policy documents. Note that a policy cannot override what is set in the server configuration document. For example, if you have message recall disabled in the server configuration document, you cannot enable it for users through the policy document. However, if a server configuration document allows the recall of mail, you can set up a policy document that does not allow the recall of mail and then apply this to a set of users.

In the policy document, in addition to specifying whether the user can recall mail, you can also specify whether mail is recalled from a specific user, as shown in Figure 3-2.



Figure 3-2 Message Recall settings in mail policy

For more information about the Message Recall feature, see the following URL at:

<http://www.ibm.com/developerworks/lotus/library/notes8-recall/>

3.2.2 Enhanced Out of Office service

This section describes the server configuration options for the Out of Office service. For information about the user interface for this feature, see section 2.4, “Improved Out of Office” on page 54.

With Lotus Domino 8, you can implement the Out of Office service as a mail router service instead of an agent. This means you can initiate Out of Office notifications as soon as you send an e-mail to someone who is out of the office, instead of having to wait until the next time the agent runs against a user’s mail file. This capability also helps to distribute the workload associated with processing Out of Office notifications more evenly because this processing happens when an e-mail is delivered to a particular user, rather than on a scheduled basis for all users who are out of the office.

Server failover is supported, and the delegation of Out of Office functionality is fully integrated with calendar management.

You can only configure the Out of Office service for clusters in which all members of the cluster are Lotus Domino 8 servers. For Lotus Domino 6.5 or 7 servers or clusters that contain these servers, you must configure the Out of Office service as an agent.

The configuration of the Out of Office functionality is performed through the server configuration document, as shown in Figure 3-3.

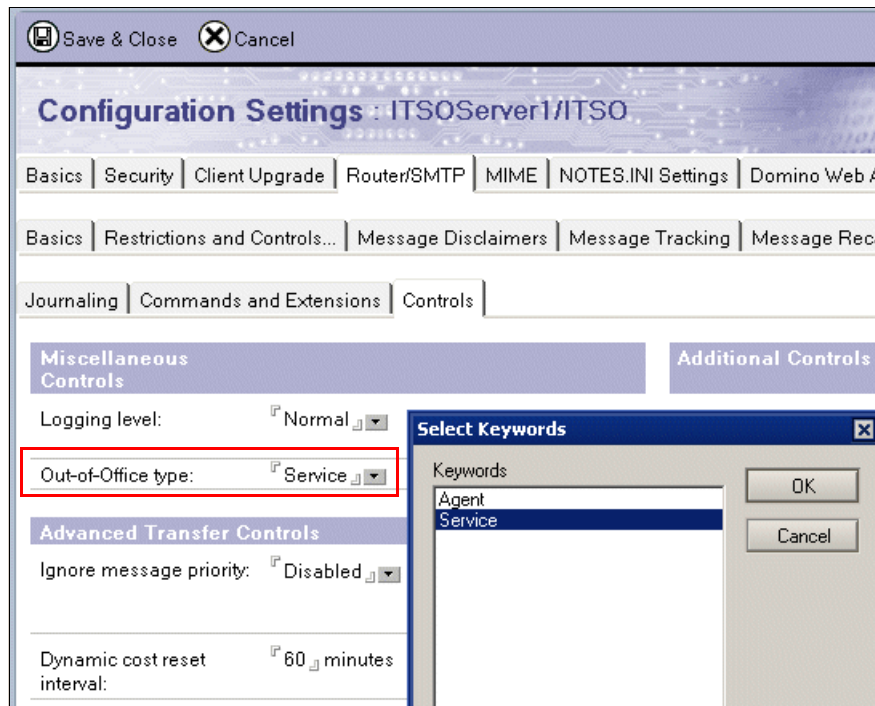


Figure 3-3 Out of Office service configuration

Administrators can view the Out of Office status for all users from the Files tab in the Lotus Domino Administrator client as shown in Figure 3-4 on page 91.

Show me: Databases only		
Template	Space Used	Out of Office
No StdR8Mail	87.1%	Yes
No StdR8Mail	85.7%	
No StdR8Mail	84.2%	Yes
No StdR8Mail	84.0%	
No StdR8Mail	83.6%	
No StdR8Mail	85.5%	
No StdR8Mail	97.6%	Yes
No StdR8Mail	83.4%	
No StdR8Mail	83.5%	
No StdR8Mail	85.3%	
No StdR8Mail	83.4%	

Figure 3-4 Files tab showing users with Out of Office service turned on

For more information about the Out of Office functionality, see the following URL at:

<http://www.ibm.com/developerworks/lotus/library/notes8-ooo/>

3.2.3 Mail threads

When mail files are hosted on a Lotus Domino 8 server, the mail threads within the mail files are resilient. This means that a thread remains intact even if an intermediate e-mail in the thread is deleted. They can also include e-mails to and from mail systems other than Lotus Domino through the support for Internet standard RFC822 “In-Reply-To” and “References” headers.

See section 2.3.4, “Mail threads” on page 47 for more information about the user interface-associated mail threads.

3.2.4 Inbox cleanup

The size of inbox folders in mail files can have a big impact on Lotus Domino mail server performance. Reducing the size of the inbox reduces the size of the index associated with the folder and the time and server resources taken to refresh the inbox, thus providing benefits for both users and server administrators.

In earlier versions, maintaining inbox size can be a challenge because the process typically results in time and effort for users. The removal of large numbers of documents from folders causes both replication and view update processing time. This processing can negatively impact performance for both the client and the server if done during business hours.

Using a new inbox cleanup feature of Lotus Domino 8, you can potentially improve both Lotus Domino server and Lotus Notes client performance by reducing the number of documents in the inbox folder of mail files.

You can choose to remove either read, or both read and unread, documents from the inbox if they are older than a specified number of days. You can configure this either in the server document, as shown in Figure 3-5 on page 92, or additionally in mail policies, as shown in Figure 3-6 on page 92.

Server: ITSOServer1/ITSO ITSOServer1.cam.itso.ibm.com

Basics | Security | Ports... | Server Tasks... | Internet Protocols... | MTAs... | Miscellaneous | Transactional Logging | Shared Mail | Administration

Administration Process | Agent Manager | Domain Catalog | Directory Cataloger | Internet Cluster Manager | Web Retriever | Remote Debug Manager

Basics	Mailfile Deletion Interval
Maximum number of threads: 3	Interval between purging mail file and deleting when using object store: 1 day(s)
Normal Request Settings	Delayed Request Settings
Interval: 1 minutes	Start executing on: Sun day(s)
Execute once a day requests at:	Start executing at:
Miscellaneous	Mail Inbox Maintenance
Mail file moves expire after: 21 days	Start executing Inbox Maintenance agent on: Sat day(s)
Store Admin Process log entries when status of no change is recorded: No	Start executing Inbox Maintenance agent at: 01:00
Suspend Admin Process at:	<input checked="" type="radio"/> Maintain inboxes for only these selected users on this home server
Restart Admin Process at:	<input type="radio"/> Maintain inboxes based on policies
	Selected users:
	Remove documents older than [X] days from Inbox: 90
	Do not remove unread documents from Inbox: <input type="checkbox"/> Yes

Figure 3-5 Inbox maintenance: Server document

Mail Inbox Maintenance	
Enable mail Inbox maintenance:	<input checked="" type="checkbox"/> Yes
Remove documents older than [X] days from Inbox:	
Do not remove unread documents from Inbox:	<input type="checkbox"/> Yes

Figure 3-6 Inbox maintenance: Mail policy document

When you enable the inbox maintenance feature, the administration process periodically runs the inbox maintenance based on settings you defined. Therefore, there is no need to have the process of maintaining inboxes occur during normal business hours.

Note that this task does not remove documents from the mail file, only from the inbox folder. Although the documents are not filed in another folder, they are still available through the “All Documents” view.

See the following reference paper for more information:

<http://www.ibm.com/developerworks/lotus/library/notes-mail-files/>

3.2.5 Mail management

The following sections describe the new and improved features in mail management.

Reverse-path setting for forwarded messages

With Lotus Domino 8, you can specify how the router handles messages that are forwarded by a user mail rule “Send copy to” action. By default, delivery status reports are requested not to be sent to the e-mail account that forwards the message by setting a null reverse path. This causes some spam filters to reject the message. A new option in the server configuration document lets you specify the reverse-path setting, as shown in Figure 3-7.

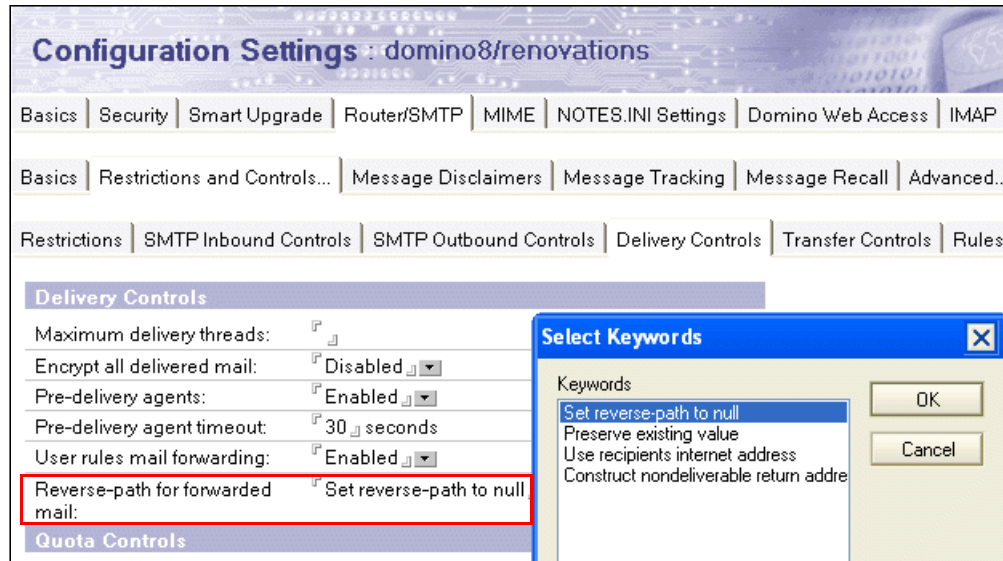


Figure 3-7 Setting the reverse path for forwarded mail

The options determine the address to use for the reverse path, which might avoid issues with anti-spam filters that reject messages with a null reverse path.

Error limit before a connection is terminated

You can specify the number of protocol errors that are returned for a session before the session connection is terminated. When the number of errors returned for a session exceeds the specified value, the session is terminated. You can use a server configuration document to specify the error limit setting, as shown in Figure 3-8. Note that a blank or zero value means that there is no limit specified.

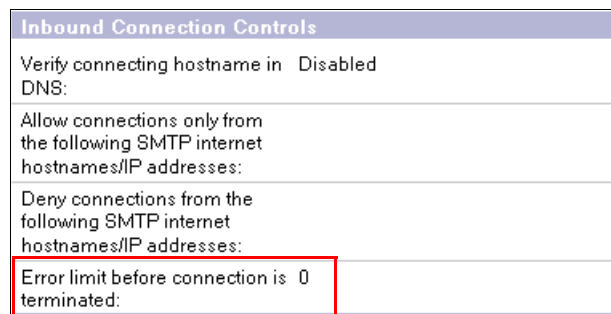


Figure 3-8 Server configuration document: Maximum permitted protocol errors

Reject ambiguous names and deny mail to groups

If you perform a directory lookup for inbound SMTP mail, you can specify whether to reject e-mail that is being sent to any ambiguous names or group names.

If you choose to reject the e-mail, a permanent failure response is returned to the sender of the message indicating that the recipient is rejected for policy reasons.

You can use a configuration settings document to specify these options, as shown in Figure 3-9.

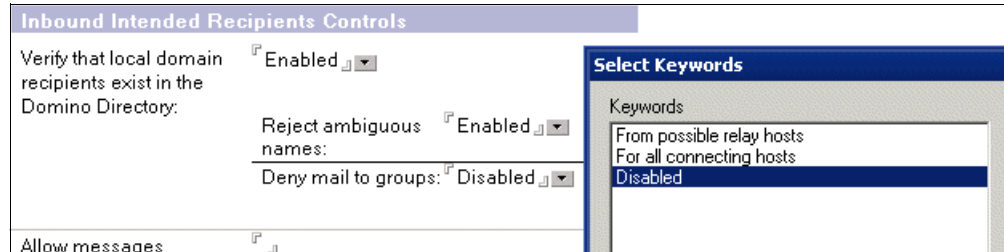


Figure 3-9 Server configuration document: Resolving directory lookups

Transfer and delivery delay reports

For normal or high priority mail, Lotus Notes mail users typically expect that e-mails are delivered within a few hours of the time they are sent. If e-mails are delayed for any reason, it is helpful for the senders to know if they have not yet been delivered.

With Lotus Domino 8, it is possible to configure the system so that a delay report is sent to a message author when a pending message has been in the router's message queue longer than a specified time. You can configure this option in the server configuration document, as shown in Figure 3-10.

Transfer Controls	
Maximum transfer threads:	
Maximum concurrent transfer threads:	
Maximum hop count:	25
Low priority mail routing time range:	00:00 - 06:00
Low priority delay notification:	Disabled
Initial transfer retry interval:	15 minutes
Expired message purge interval:	15 minutes
Transfer and delivery delay notifications:	Enabled
Delay notification intervals:	
High priority mail:	4 hours
Normal priority mail:	4 hours
Low priority mail:	4 hours

Figure 3-10 Server configuration document: Transfer Controls

3.3 Lotus Notes client administration

This section describes the enhancements to Lotus Notes/Domino 8 that assist administrators in managing their Lotus Notes client estate.

3.3.1 Managing Lotus Notes 8 client installations

Because Lotus Notes 8 is built on top of Eclipse technology, new plug-ins and updates to existing ones are delivered in a convenient, more granular way. Lotus Notes/Domino 8 enables this through native Eclipse provisioning capabilities. Updates are provisioned to Lotus Notes 8 clients from what are known as *update sites*, which contain all the latest components, features, and plug-ins that you want your Lotus Notes users to have.

Update sites contain *features* and *plug-ins* for rich client platform (RCP) applications. The features and plug-ins are published in the form expected by an update manager, which is installed on the client. The update manager locates new and updated versions of features for downloading to the client.

Plug-ins are the basic building blocks in any RCP-based application, such as Lotus Notes 8 or Sametime Connect 7.5. A plug-in contains a manifest, usually code, and is packaged as a JAR (Java archive format for a compressed file) and is stored on the update site in a folder named “plug-ins.”

Features are collections of associated plug-ins. They also contain manifests and are packaged as JARs. However, features are not containers of plug-ins; they just reference them. They are stored on the update site in a folder named “features.”

An XML file named `site.xml` is stored in the root of the update site and this contains an index listing of all the features contained within the site. The basic structure of an Eclipse update site is shown in Figure 3-11.

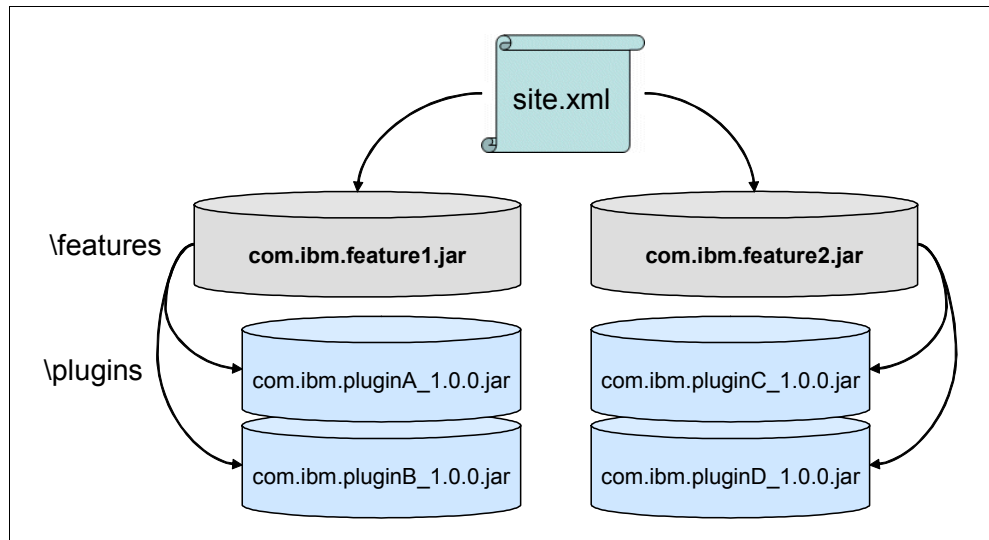


Figure 3-11 Structure of an Eclipse update site

Customizing initial Lotus Notes 8 client installations

To customize the Lotus Notes installation code, administrators can edit or add to the following files and directories from the Lotus Notes installation media kit. Note that the `updateSite` directory is supplied in zipped form:

- `deploy\INSTALL.XML` - This file lists the Eclipse features to be installed and indicates whether they are required or optional and whether they should appear as options in the client installation user interface or not. See Figure 3-12 on page 96 for an excerpt of the default `INSTALL.XML` file showing the install settings for the Composite Application Editor (not installed by default, not required, and appears as an option in the user interface) and

the Feed Reader (installed by default, is required, and does not appear as an option in the user interface).

```

</installfeature>
- <installfeature default="false" description="%CAE.description" id="CAE" name="%CAE.name" required="false"
  show="true" version="8.0.0.20070803.1143">
  - <requirements>
    <feature download-size="1209" id="com.ibm.rcp.aaf.feature" match="perfect" shared="true" size="1206"
      url="jar:${installer.root}/updateSite.zip!/" version="1.0.0.20070803-1143" />
  </requirements>
</installfeature>
- <installfeature default="true" id="Feedreader" name="Feed Reader" required="true" show="false"
  version="8.0.0.20070803.1143">
  - <requirements>
    <feature download-size="987" id="com.ibm.rcp.feedreader.notes.feature" match="perfect" shared="true"
      size="906" url="jar:${installer.root}/updateSite.zip!/" version="1.0.0.20070803-1143" />
    <feature download-size="165" id="com.ibm.rcp.feedreader.notes.providers.feature" match="perfect"
      shared="true" size="131" url="jar:${installer.root}/updateSite.zip!/" version="1.0.0.20070803-1143" />
    <feature download-size="3252" id="com.ibm.notes.java.api.feature" match="perfect" shared="true"
      size="3577" url="jar:${installer.root}/updateSite.zip!/" version="1.0.0.20070803-1143" />
  </requirements>
</installfeature>

```

Figure 3-12 Excerpt from the INSTALL.XML file

- ▶ deploy\PLUGIN_CUSTOMIZATION.INI - This file sets certain Eclipse preferences and instructs the installer on how to respond to features and plug-ins that are expired or not signed by an recognized certificate authority. See Figure 3-13 for an example.

```

plugin_customization.ini - Notepad
File Edit Format View Help
com.ibm.rcp.provisioning/startupForegroundColor=000000
com.ibm.rcp.provisioning/startupProgressRect=18,18,400,20
com.ibm.rcp.provisioning/startupMessageRect=20,43,400,20
# settings for enabling PKI based provisioning security
com.ibm.rcp.security.update/VERIFICATION_LISTENER=com.ibm.rcp.security.update.DefaultVerificationListener
com.ibm.rcp.security.update/EXPIRED_SIGNATURE_POLICY=PROMPT
com.ibm.rcp.security.update/UNSIGNED_PLUGIN_POLICY=PROMPT
com.ibm.rcp.security.update/UNTRUSTED_SIGNATURE_POLICY=PROMPT

```

Figure 3-13 PLUGIN_CUSTOMIZATION.INI

- ▶ updateSite\SITE.XML - This file contains the registry of the features you want to make available for install. For example, Figure 3-14 shows the key features used to supply the feed reader functionality.

```

- <feature id="com.ibm.rcp.feedreader.feature" patch="false" url="features/com.ibm.rcp.feedreader.feature_1.0.0.20070803-1143.jar" version="1.0.0.20070803-1143">
  <category name="Notes" />
</feature>
- <feature id="com.ibm.rcp.feedreader.notes.feature" patch="false"
  url="features/com.ibm.rcp.feedreader.notes.feature_1.0.0.20070803-1143.jar" version="1.0.0.20070803-1143">
  <category name="Notes" />
</feature>
- <feature id="com.ibm.rcp.feedreader.notes.providers.feature" patch="false"
  url="features/com.ibm.rcp.feedreader.notes.providers.feature_1.0.0.20070803-1143.jar" version="1.0.0.20070803-1143">
  <category name="Notes" />
</feature>
- <feature id="com.ibm.rcp.feedreader.rational.parser.feature" patch="false"
  url="features/com.ibm.rcp.feedreader.rational.parser.feature_1.0.0.20070803-1143.jar" version="1.0.0.20070803-1143">
  <category name="Notes" />
</feature>

```

Figure 3-14 Excerpt from SITE.XML

- ▶ updateSite\features (subdirectory) - This directory contains the feature JAR files that are used to organize plug-ins.
- ▶ updateSite\plugins (subdirectory) - This directory contains the plug-in JAR files that hold the runtime code.

Using a Lotus Domino 8 server as a provisioning server

In previous versions of Lotus Domino, you could use the Smart Upgrade process to provision new versions of the Lotus Notes client to users' workstations. With Lotus Domino 8, this feature is still available. In addition, the native provisioning capability of Eclipse that is built into Lotus Notes 8 has been extended with Lotus Domino administration tools and interfaces.

You can configure Lotus Domino 8 as a generic Eclipse update site (in which case, you can use it for the provisioning of other IBM Lotus Expeditor-based clients, such as Sametime Connect 7.5), or an NRPC-based update site to support native NRPC-based provisioning for Lotus Notes 8 clients.

A new Lotus Domino provisioning database template (UPDATE.NTF) creates databases to store versions of components that need to be updated on the Lotus Notes client, as shown in Figure 3-15.

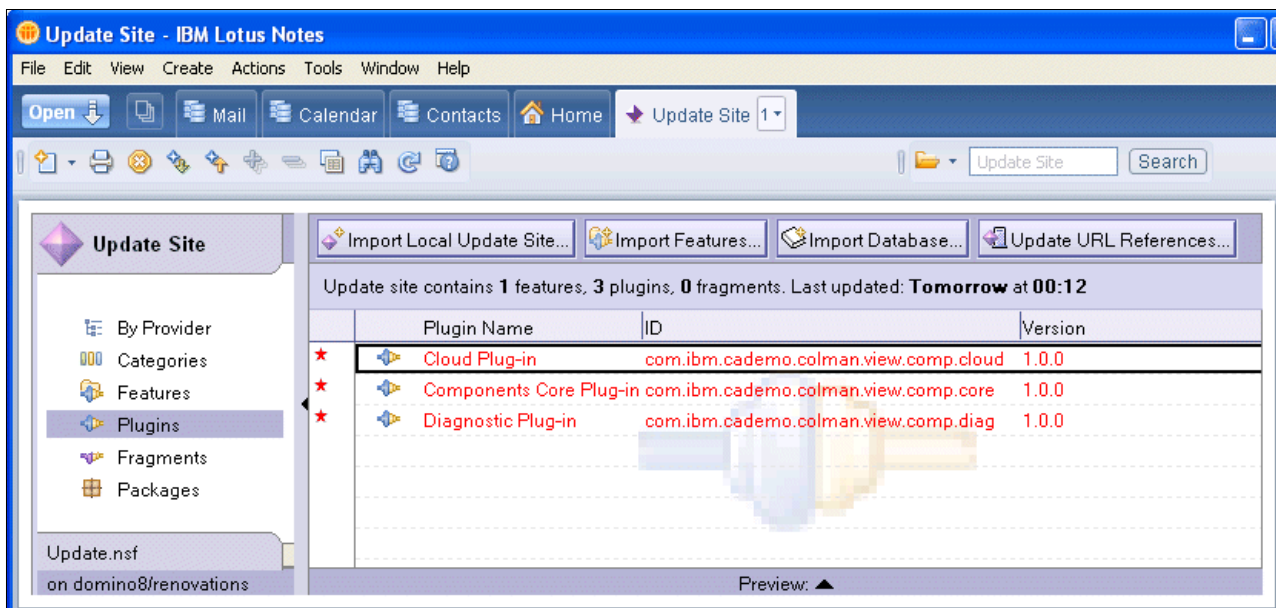


Figure 3-15 Update Site database

Because the components are stored in a Lotus Notes database, administrators can take advantage of Lotus Notes security and replication features. Administrators can tightly control who has access to which features and, where organizations have remote sites with their own Lotus Domino servers, administrators can use replication to move resources closer to users. Users receive updates to their Lotus Notes clients from their local network instead of across a wide area network.

As shown in Figure 3-16 on page 98, with Lotus Domino 8, an administrator has all the tools necessary to deploy:

- ▶ Version upgrades to the core Lotus Notes client, using the Smart Upgrade Kits.
- ▶ New features for the Lotus Notes 8 client menus and new plug-ins for the Lotus Notes 8 client sidebar through the component provisioning features.

- ▶ Traditional Lotus Notes applications through replication.
- ▶ Composite applications through a combination of replication and component provisioning, depending on the design of the composite application. For more information about composite applications, see section 4.2, “Composite applications” on page 137.

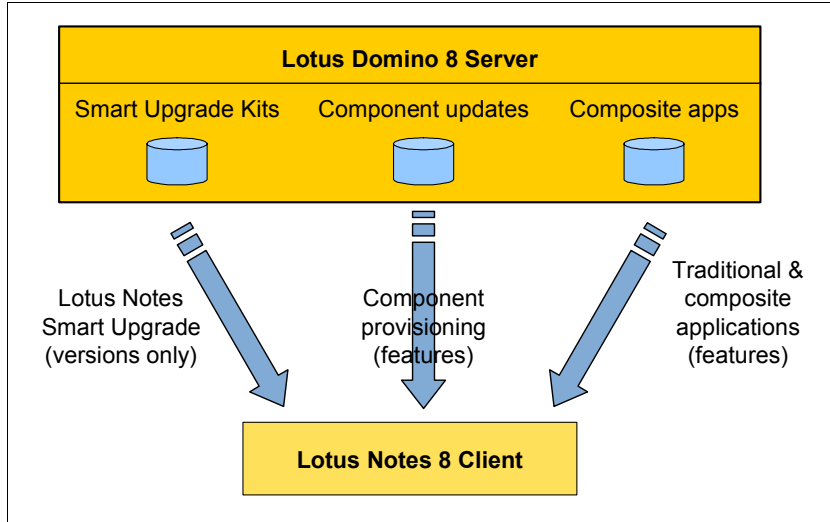


Figure 3-16 Server-managed provisioning for the Lotus Notes client

3.3.2 Policy management enhancements

Policies and settings were introduced in Lotus Domino 6. These help administrators manage users' local Lotus Notes client configurations. Administrators can set user options in a centrally managed set of documents known as *policies*. They can then assign these policies to individuals or groups of users. Every time a user logs on to their Lotus Notes client, a check is made to see if there are any updates to the policy that is assigned to the user. If so, these changes are automatically applied to the user's configuration.

Lotus Domino 8 introduces the following enhancements.

Additional mail and desktop settings

You can control several additional preferences through the mail and desktops settings, including attention indicators, follow up flags, mail recall, and replication settings.

Set initially for all fields option

For each setting in the policy document, you can choose how it needs to be applied. In Lotus Domino 7, you can select “Do not change” to allow the user to configure the setting or “Set and prevent changes” to assign the setting and not let the user change this.

With Lotus Domino 8, you can select the additional option of “Set initially for all fields.” This allows you to set initial values, which the user can change.

How To Apply setting

There are many user settings associated with a user's desktop and mail file. You can configure most of these settings through mail and desktop settings documents. When configuring any particular setting, an administrator can indicate how the setting is applied, as shown in Figure 3-17.

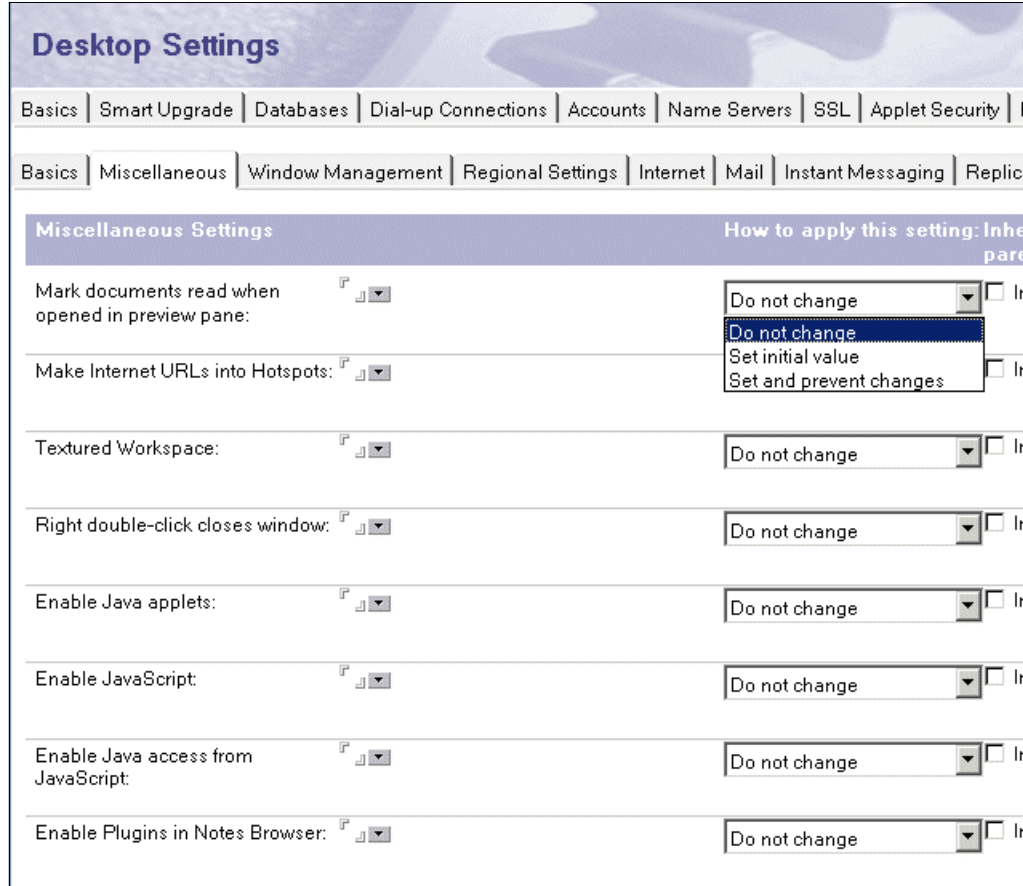


Figure 3-17 Desktop settings

However, there are more than 50 settings in the mail settings document to which the “How To Apply” parameter is applied and more than 100 settings in the desktop settings document. Often, administrators want to apply the same parameter to all the settings in a document. To do this manually takes a significant amount of time.

With Lotus Domino 8, a new “How To Apply” option to the mail and desktop settings documents allows administrators to set the parameter for all settings in a document with a single click, as shown in Figure 3-18.

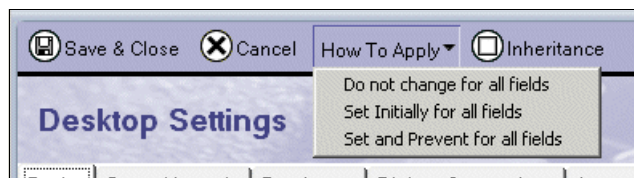
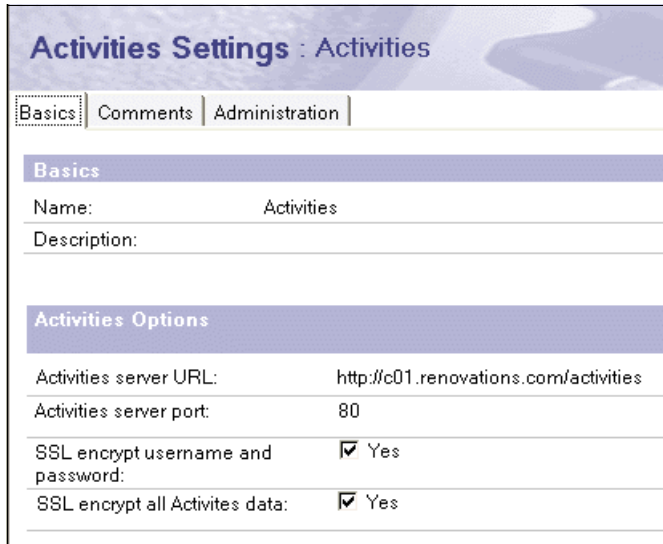


Figure 3-18 Desktop settings: “How To Apply” option

Activities policy setting

An Activities policy setting has been added to the set of policy settings that administrators can maintain. See section 2.10, “Activities” on page 75 for more information about Activities.

With this settings document, administrators can set the URL and port that Lotus Notes client users must use to access their activities through the Activities plug-in on the Lotus Notes 8 sidebar and to configure SSL encryption for the user name and password or the activities data, or both.



Activities Settings : Activities	
Basics Comments Administration	
Basics	
Name:	Activities
Description:	
Activities Options	
Activities server URL:	http://c01.renovations.com/activities
Activities server port:	80
SSL encrypt username and password:	<input checked="" type="checkbox"/> Yes
SSL encrypt all Activities data:	<input checked="" type="checkbox"/> Yes

Figure 3-19 Activities Settings document

Productivity tools policy setting

A Productivity Tools policy setting has been added to the set of policy settings that administrators can maintain.

With this settings document, administrators can set whether the user is allowed to use the productivity tools, and if so, whether running macros within the tools will be permitted. In addition, the administrator can configure whether documents in a variety of compatible formats, including Microsoft Office and Lotus SmartSuite, are automatically opened with the productivity tools instead of their native software program, as shown in Figure 3-20.

Productivity Tools Settings : Productivity Tools	
Basics Comments Administration	
Basics	
Name:	Productivity Tools
Description:	
Productivity Tools	
Allow users to run macros in IBM productivity tools:	<input checked="" type="checkbox"/> Yes
Allow IBM productivity tools:	<input checked="" type="checkbox"/> Yes
Open MS Office files with IBM productivity tools:	<input checked="" type="checkbox"/> Yes
.doc	<input checked="" type="checkbox"/> Yes
.ppt	<input checked="" type="checkbox"/> Yes
.xls	<input checked="" type="checkbox"/> Yes
.rtf	<input checked="" type="checkbox"/> Yes
Open MS Office templates with IBM productivity tools:	<input checked="" type="checkbox"/> Yes
.dot	<input checked="" type="checkbox"/> Yes
.pot	<input checked="" type="checkbox"/> Yes
.xlt	<input checked="" type="checkbox"/> Yes
Open SmartSuite files with IBM productivity tools:	<input checked="" type="checkbox"/> Yes
.lw3	<input checked="" type="checkbox"/> Yes
.123	<input checked="" type="checkbox"/> Yes

Figure 3-20 Productivity Tools Settings document

Security policies for Domino Web Access users

With Lotus Domino 8, security policies applied to Domino Web Access users are enforced. The security policy settings are:

- ▶ Allow users to change internet password over HTTP: If this is set to “Yes”, Domino Web Access users can use the “Change Internet password” preference to change their password. If it is set to “No”, the preference will not be available.
- ▶ Update Internet Password When Notes Client Password Changes: If this is set to “Yes”, then Domino Web Access users’ preferences include only the “Change Password” preference. This is used to change both passwords. If it is set to “No”, then Domino Web Access users’ preferences include both “Change Notes ID” and “Change Internet Password” user preferences. Users *must* use both to change their passwords.
- ▶ Enforce password expiration: Set the Notes or Internet passwords expiration after a configurable interval so that users are prompted to enter new passwords.
- ▶ Required password quality: Applies to password on embedded Lotus Notes ID only.

- Change Password on First Notes Client Use: Applies to password on embedded Lotus Notes ID only.

Managing Administration Execution Control Lists

When you set up the first server in a domain, a default administration *Execution Control List* (ECL) is created, which you can customize for your organization. You might have more than one type of administration ECL; for example, one for contractors and one for full-time employees. You can use the Workstation Security: Admin Execution Control Lists dialog box to manage administration ECLs you have created. You can also use it to create new ones or to delete any that are no longer needed, as shown in Figure 3-21.

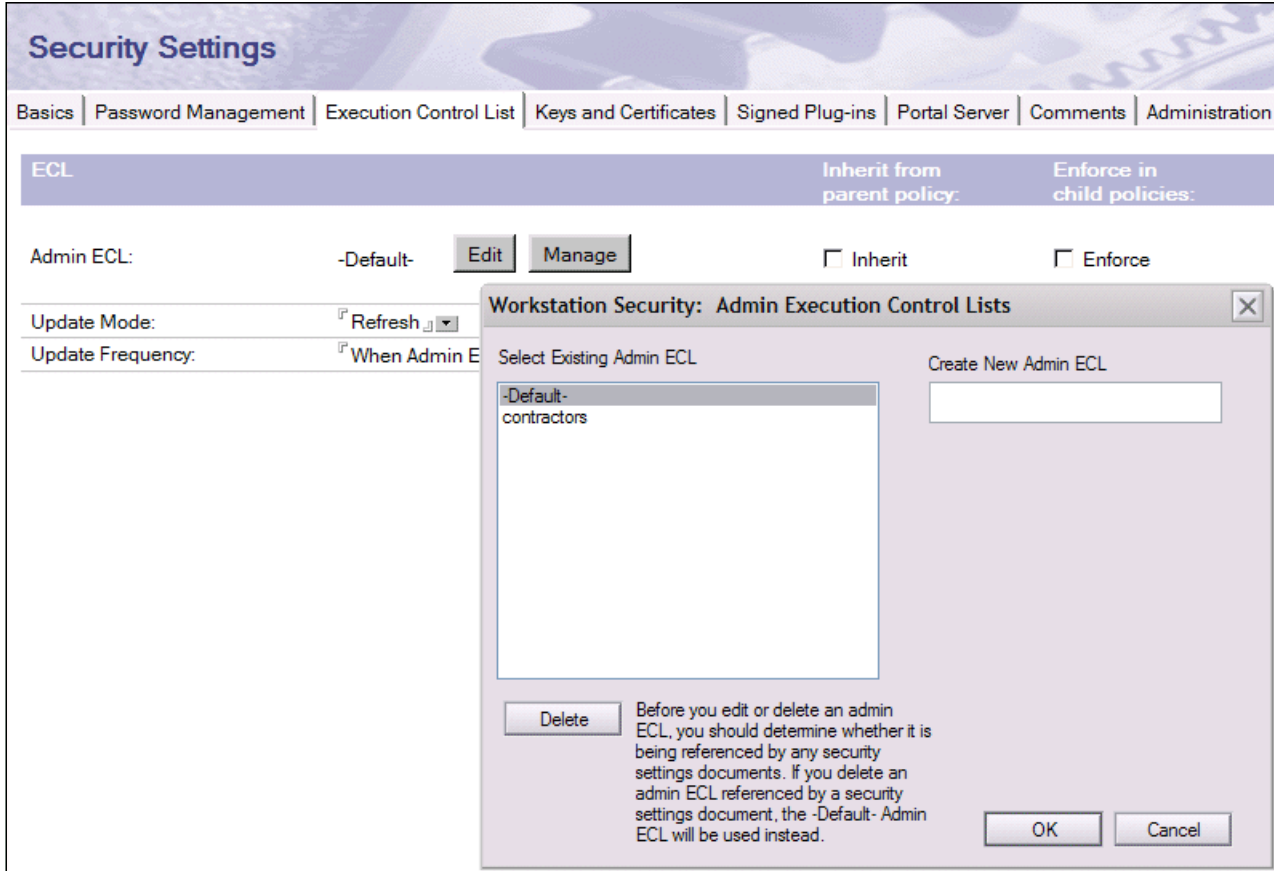


Figure 3-21 Managing Administration ECL through security policy

3.3.3 Database redirect

With Lotus Domino 8, you can now automatically update client references to databases if you move the databases to another Lotus Domino server using the administration process. From the Lotus Domino 8 administrator client, there is an extra check box available to you when you move or delete a database, as shown in Figure 3-22.

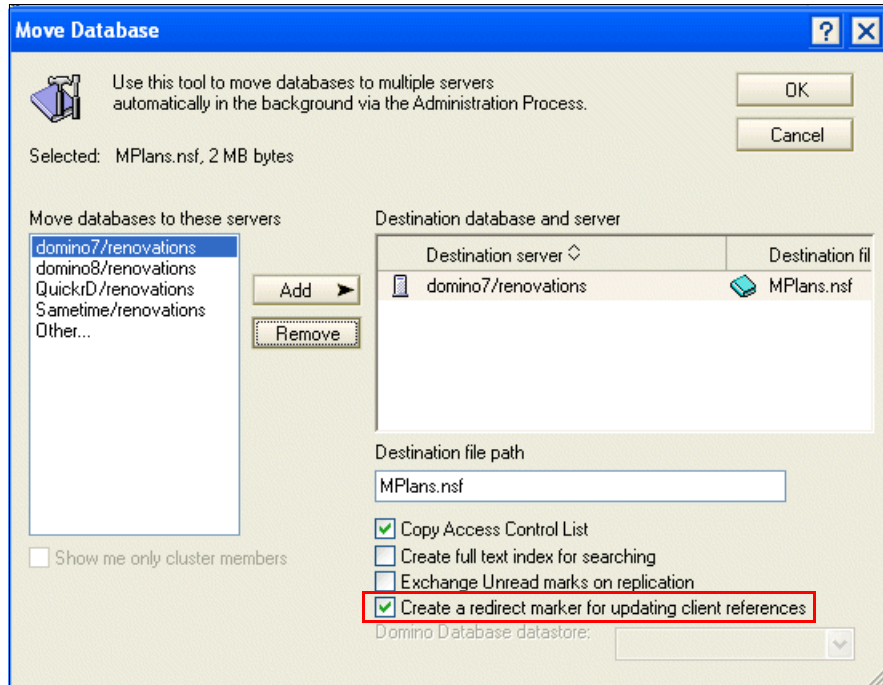


Figure 3-22 Creating a redirect marker when moving a database

If you select this option when moving a database and users click a bookmark for the application, they are automatically redirected to open the database on the new server. The user's bookmark is updated with the new reference and any reference to the original database location is removed.

When deleting a database, you can select whether to create a marker, and if so, whether this simply removes the database reference from the user's bookmarks or workspace, or whether it redirects them to find the database on another server. The example in Figure 3-23 shows how to create a deletion marker that removes the reference to the database.

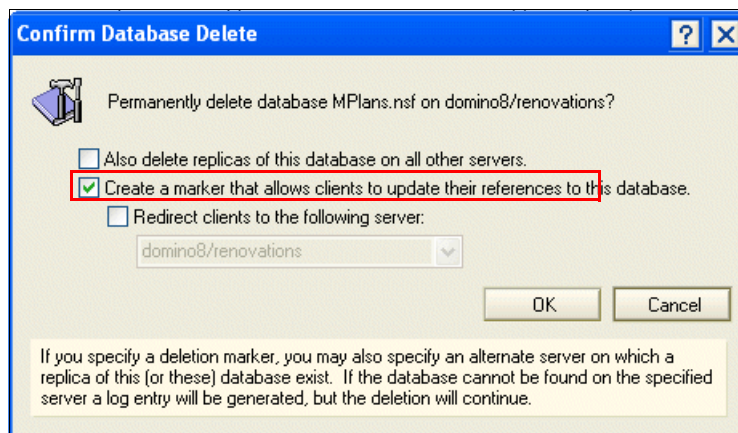


Figure 3-23 Create a database deletion marker

It is also possible to apply a redirect marker to existing databases, without moving or deleting the database. From the Files tab in the Lotus Domino 8 administrator client, you can highlight the database for which you want to create the redirect marker and select **Create Redirect** from the Tools sidebar. You can then configure the target server and database and optionally select the names of the users who need to be redirected to this location, as shown in Figure 3-24.

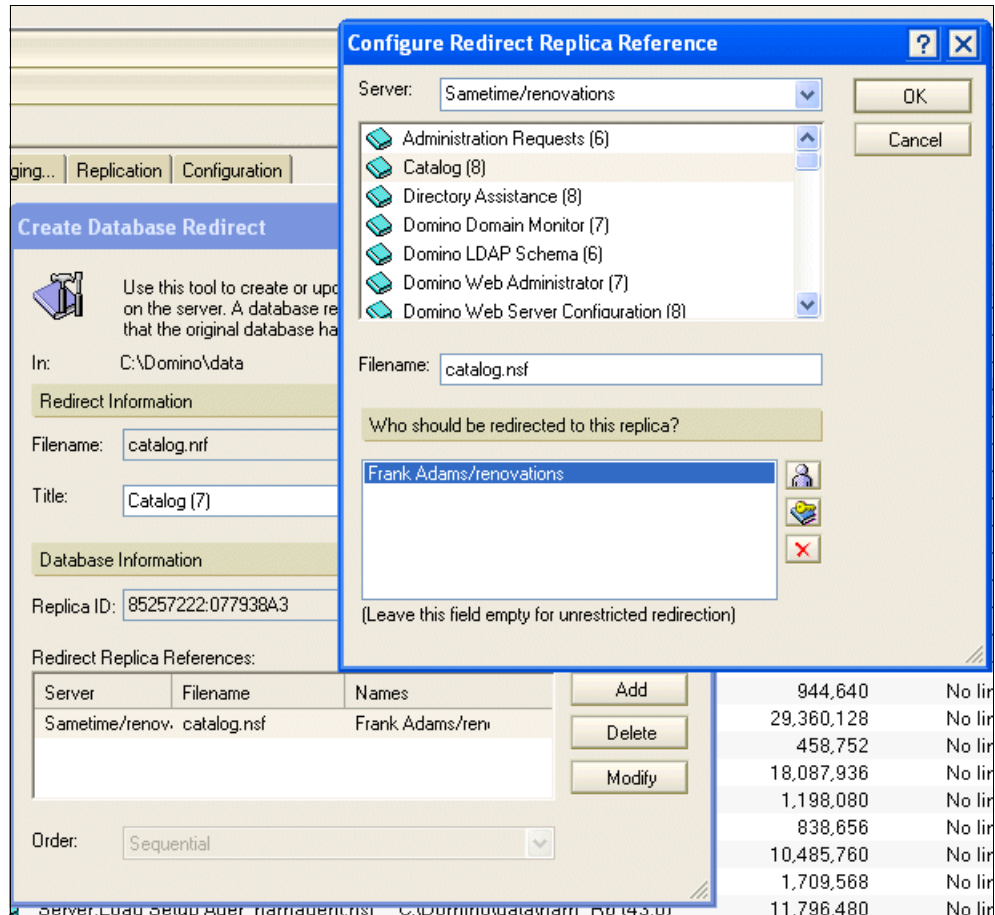


Figure 3-24 Creating a redirect marker for existing databases

If you select a set of users for whom the redirect will apply, only these users are redirected to the database in the new location. All other users continue to use the database in its original location.

3.4 Lotus Domino server administration

This section describes the features introduced in Lotus Domino 8 to assist administrators with managing their Lotus Domino environments.

3.4.1 Lotus Domino domain monitoring enhancements

Lotus Domino domain monitoring (DDM) is a feature introduced in Lotus Domino 7 to provide one location from which you can view the overall status of multiple Lotus Domino servers across one or more domains. In addition to collecting information about the status of the domains, DDM includes tools to help you use this information to prioritize, assign, track, and

resolve problems. With Lotus Domino 8, you can configure the DDM database to open whenever the Lotus Domino 8 administrator client is started.

New probe subtypes

DDM uses configurable probes to gather information. A *probe* is a discrete check, or set of checks, configured to run against one or more servers, databases, or services. The probe returns status and server health information to DDM. The set of probes has been enhanced in Lotus Domino 8 to include the following probe subtypes.

LDAP search response (directory probe subtype)

With an LDAP search response probe (Figure 3-25), you can validate whether your LDAP searches are returning results within specified thresholds.

Basics		
Probe Type:	Directory	
Probe Subtype:	LDAP Search Response	
Probe Description:	Default Directory/LDAP Search Response Probe	
<p>This probe monitors the average response time for LDAP searches on the target server. Thresholds are configured to define acceptable user response times. An event will be issued in the Domino Domain Monitor if LDAP search response times meet or exceed configured thresholds. The schedule for this type of probe is not configurable.</p>		
Target		
Which servers should run this probe?	domino8/renovations	
Specifics		
Event generation status:	If the average LDAP search response exceeds:	Generate an event of severity:
<input type="checkbox"/> Enabled	2000 milliseconds or 0% of the LDAP Server timeout	Fatal
<input type="checkbox"/> Enabled	1500 milliseconds or 0% of the LDAP Server timeout	Failure
<input checked="" type="checkbox"/> Enabled	1200 milliseconds or 0% of the LDAP Server timeout	Warning High
<input checked="" type="checkbox"/> Enabled	800 milliseconds or 0% of the LDAP Server timeout	Warning Low
<input type="checkbox"/> Limit reporting to the average search responses times stored by the LDAP Server		

Figure 3-25 LDAP Search Response Probe Subtype

Automatic report closing (administration probe subtype)

Some reports are automatically updated when an issue has been resolved. Reports that automatically clear are flagged as being able to do so, as shown in Figure 3-26 on page 106.

Today, 3:13:39 (20 occurrences, first seen at 11 January 2007 - 21:25:52)
 Database events4.ntf in view (\$Messages) contains 98 replication conflicts

Explanation Details



- Reported by: Event Monitor
- Auto-closing: Once this issue has been corrected, its resolution will be detected. This report's status will automatically be changed to Closed and its Severity changed to Normal.
- Severity and type:  Warning High in Server: Monitoring 

Figure 3-26 Auto-closing report

However, the resolutions of many issues are not detected, so their reports are manually closed. This can create an unnecessary administrative processing or make it more difficult to quickly identify and focus on the reports that do need attention.

With an “automatic report closing” probe, you can specify the reports that you want to be closed automatically if they have been inactive for a specified period of time, as shown in Figure 3-27. Note that if the same error occurs after the report is closed, the report is reopened.

Basics	
Probe Type:	Administration
Probe Subtype:	Automatic Report Closing
Probe Description:	Default Administration/Automatic Report Closing - database and view
<p>This probe periodically closes Event Reports that have remained open for the specified period of time, but have been inactive. An inactive report is tracking an error that has not recently occurred. Depending on the error, an inactive report may represent a stale issue. Any report closed by this probe will be reopened should the error reoccur.</p>	
Target	
Which servers should run this probe?	All servers in the domain
Specifics	
Errors to periodically close:	B-tree structure is invalid [[0x028E]] Database is corrupt - Cannot allocate space [[0x0238]] Entry not found in index [[0x0404]] This database cannot be read due to an invalid on disk structure [[0x0601]]
Number of days to remain open:	14

Figure 3-27 Automatic Report Closing Subtype

Common Actions button on Events document

All events now have a Common Actions button, allowing you to access a list of the most commonly performed actions for investigating events and then choose an action to carry out in each particular event (Figure 3-28 on page 107).

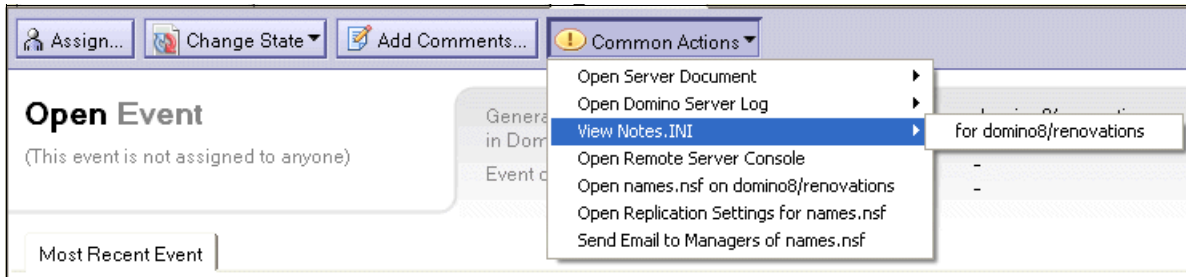


Figure 3-28 Common Actions button

New Execute Corrective Action role

Many events have corrective actions associated with them, as shown in Figure 3-29. With Lotus Domino 8, these are now enhanced so that only those who have been granted the Execute CA role in the DDM ACL can access the corrective action text and links.

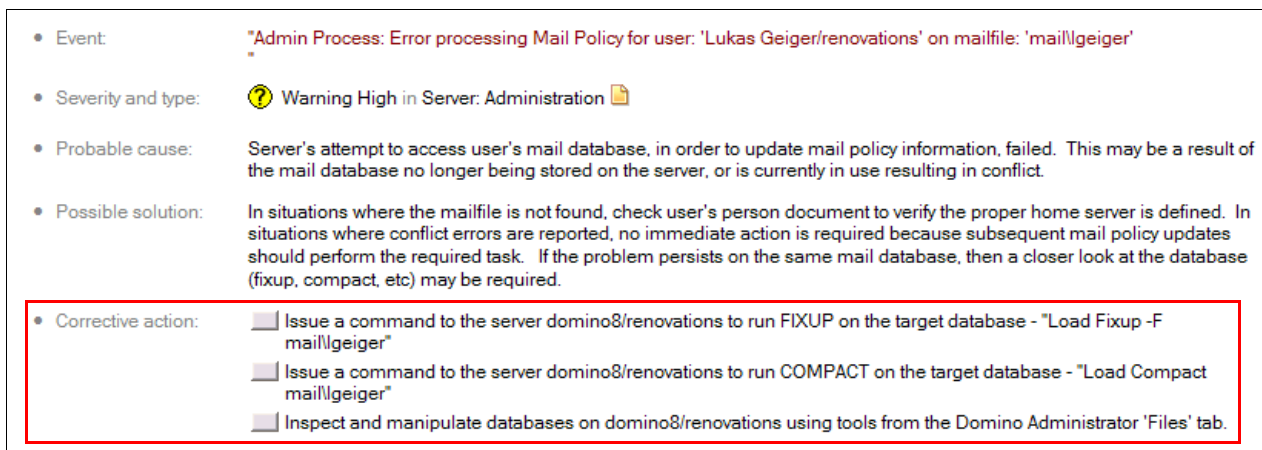


Figure 3-29 Event document showing Corrective action buttons

New modular documents

Modular documents are new reference documents for Probable Cause, Possible Solution, and Corrective Action statements. Every one of these statements has a corresponding modular document. When you create an event document, the Probable Cause, Possible Solution, and Corrective Action statements that you choose to include in the document are referenced from modular documents.

The benefit of using modular documents is that you only need to define these statements once, and you can then use them multiple times for any number of events.

You can create and modify modular documents from the Monitoring Configuration database (EVENTS4.NSF). Note that if you modify a modular document, it is a global modification because the information is automatically applied to every document that references that modular document.

Figure 3-30 shows an example of a modular document for a corrective action.

The content of the Description field is used as the text for the corrective action. The Code field provides details about the commands that are carried out when the Corrective Action button is selected. The embedded view shows all the places that this corrective action is currently used.

Basics	
Type:	Formula Language Code
Description:	Inspect the health of the router task on %
Code:	@Command([Administration];"%TargetServer%";[ADMIN_CONSOLE];2308177922); @Command([ViewRefreshFields])
The following message documents will be updated when this document is saved:	
Message Text	
?	The number of pending mail messages on <name> has exceeded the allowed limit.
?	The number of messages has exceeded the limit

Figure 3-30 Example of a modular document

By database view

A new view has been introduced to DDM in Lotus Domino 8 that helps you identify all the issues associated with a database (Figure 3-31).

★	1	+	cdc.nsf			
★	1	+	events4.nsf			
★	1	+	log			
★	2	+	mail/bzechman.nsf			
	1	-	mail/lgeiger			
	1	!	Failure			
	1	-	Server: Administration			
		!	Wed 19/09	domino8/renovations	Admin Process: Error processing Mail Policy for user: 'Lukas Geiger/renovations' on mailfile: 'mail/lgeiger' : File does not exist	
	3	-	mail/sdaryn.nsf			
	3	?	Warning (High)			
	3	-	Security: Access			
★		?	Thu 20/09	domino8/renovations	ATTEMPT TO ACCESS DATABASE mail\sdaryn.nsf by Domino Admin/renovations was denied	
★		?	Wed 11/07	domino8/renovations	ATTEMPT TO ACCESS DATABASE mail\sdaryn.nsf by Frank Adams/renovations was denied	
★		?	Tue 10/07	domino8/renovations	ATTEMPT TO ACCESS DATABASE mail\sdaryn.nsf by Betty Zechman/renovations was denied	
★	1	+	MPlans.nsf			
★	17	+	names.nsf			
	1	-	Update.nsf			
	1	!	Warning (Low)			
	1	-	Server			
★		!	Tue 18/09	domino8/renovations	Database Update.nsf created by Domino Admin/renovations	

Figure 3-31 DDM: By database view

3.4.2 Bookmarks for Web administration servers

A new bookmarks feature has been added to the Lotus Domino 8 administration client. It is similar to the server bookmark feature and adds the Web URL for the administrative page of other IBM or vendor products, as shown in Figure 3-32.

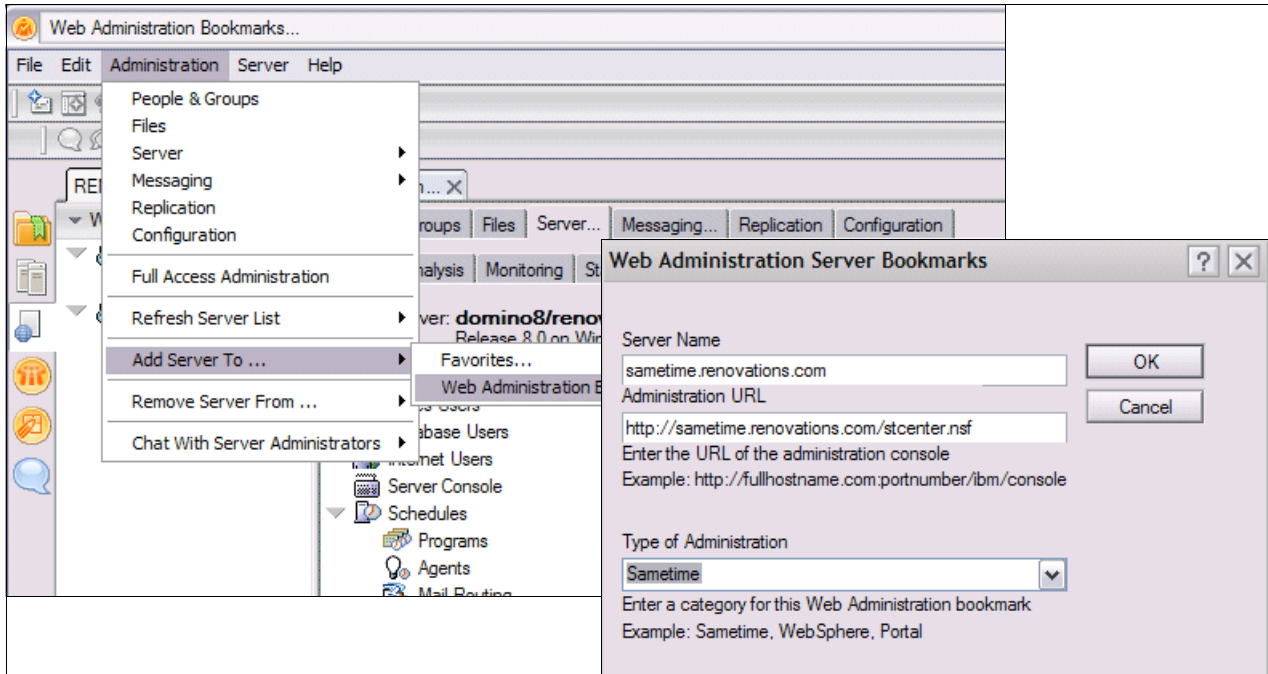


Figure 3-32 Adding Web Administration Server Bookmarks

Examples of software products that are administered directly from the Lotus Domino 8 administration client are WebSphere Portal and Lotus Sametime, as shown in Figure 3-33.

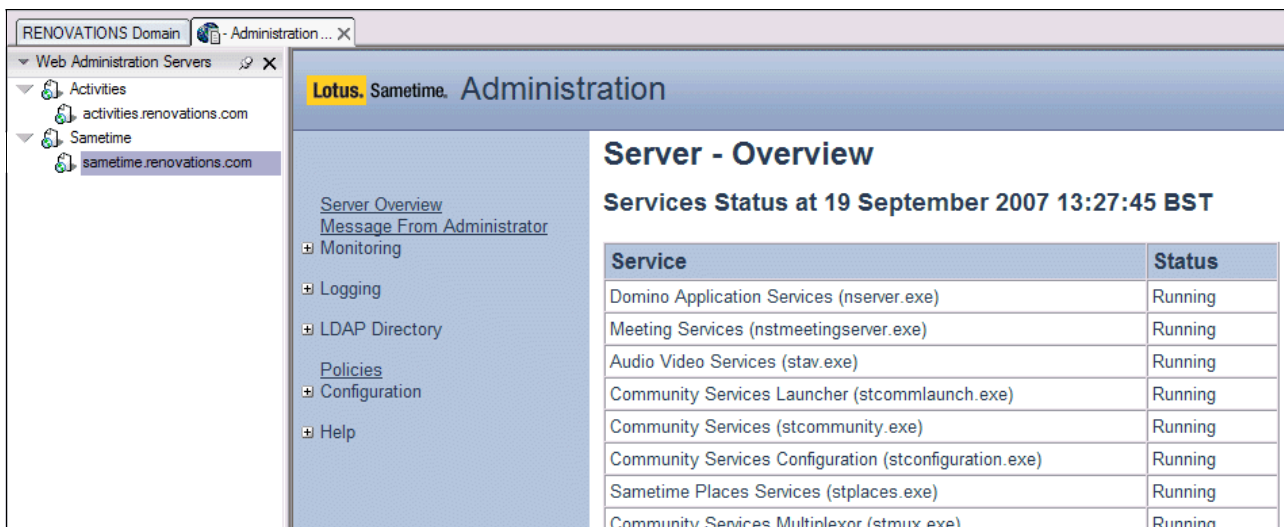


Figure 3-33 Web Administration Servers bookmark

3.5 Improved efficiency and performance

The following features have been introduced or enhanced to help improve the efficiency and performance of Lotus Domino servers, in terms of reducing I/O.

3.5.1 Design note compression

The option to use design note compression has been added to Lotus Domino 8 to help reduce the I/O and the space utilization associated with design information.

The compression, which is transparent to applications, typically reduces the size of a design note by 55-60%. For example, when applied to the standard Lotus Notes mail 8 template where, by default, the total disk space used by the template is 26.2 MB, the size of the template is reduced to 10.7 MB. This feature is enabled in the Advanced Database properties, as shown in Figure 3-34.

Note that this feature requires the new optional on-disk structure (ODS). See Appendix B, “Lotus Domino 8 server feature requirements” on page 169 for more information about the new ODS.

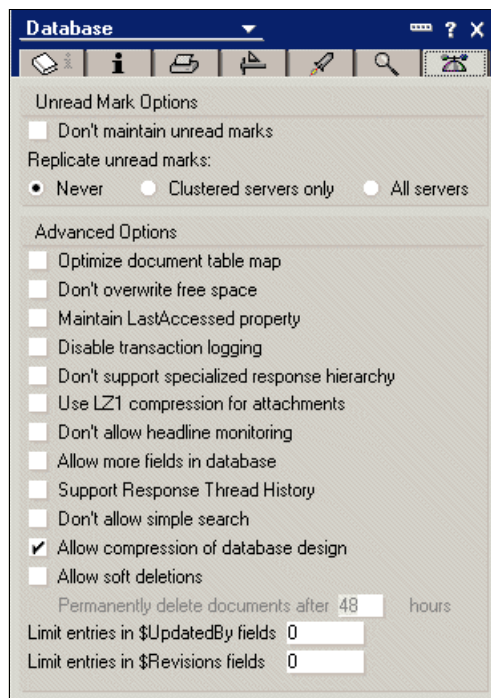


Figure 3-34 Allow compression of database design

3.5.2 Streaming cluster replication

To improve cluster replication performance and help reduce the effect that this has on server I/O, Lotus Domino 8 introduces the concept of streaming cluster replication.

Cluster replication helps ensure that replica databases in a cluster are as up-to-date as possible to support failover and load balancing of servers. It is event-driven instead of schedule-driven. When a cluster replicator learns of a change to a database, it immediately pushes that change to other replicas in the cluster.

With prior versions of Lotus Domino, the cluster replicator constantly checked each database in turn to identify whether there were changes to replicate and then replicated all changes associated with one database before moving onto the next.

With Lotus Domino 8, servers propagate events (Lotus Notes updates, folder additions and removals, and unread mark operations) to destination servers as they occur. Streaming cluster replication uses in-memory information and generally does not need to read data from disk or reopen Lotus Notes to get the updates that need to be synchronized with another server. The propagation delays are generally very short, which helps the effectiveness of the caching.

Streaming cluster replication coordinates with existing scheduled replication to help reduce its processing, and it updates replication history periodically to reduce the burden on the regular replicator.

3.5.3 Improving server availability in a cluster

When Lotus Domino servers are configured in clusters, administrators can segregate the network traffic associated with cluster replication traffic from that associated with user access by having them take place on different networks. This is achieved by assigning a specific port for cluster replication using a NOTES.INI variable:

```
Server_Cluster_Default_Port=portname
```

However, when you specify a port with this variable, you limit cluster replication to that specific port even if it has failed. With Lotus Domino 8, you can now specify additional ports for cluster replication if the cluster partner cannot be reached on the default port. This is achieved with the following NOTES.INI variable:

```
Server_Cluster_Auxiliary_Port=portname
```

You can set the `Server_Cluster_Auxiliary_Port=` setting to an asterisk for any available port, or set to a list of port names separated by a comma if there are specific ports to use.

3.5.4 Administration process improvements

The administration process (AdminP) task automates many of the administrative tasks required to manage a Lotus Domino environment. Enhancements in Lotus Domino 8 improve the efficiency of this process to help reduce the resource requirements and speed up the completion of tasks.

Post request into target server database

With prior versions of Lotus Domino, administration requests are placed into the “Administration Requests” database (ADMIN4.NSF) on the Lotus Domino server on which they are created, and then replication is used to transfer the request to the server where it will be processed. In an environment with many servers, it might take several replication events before the request reaches the server that processes the request.

With Lotus Domino 8, the administration process deposits certain administration requests directly into a destination server’s Administration Requests database instead of depositing the request into the local copy of the database. This has the potential to reduce the time taken to complete the processing of these administration requests.

Only those administration requests that are to be processed by a named server, and only where there is direct connectivity between the source and destination server, are placed directly into destination Administration Requests databases. In all other cases, including

administration requests that are destined to be processed by “All Servers,” the request is deposited into the local administration requests database and propagated to other servers by replication.

If desired, you can disable this feature for specific servers using the following NOTES.INI setting:

```
ADMINP_DONT_ATTEMPT_DIRECT_DEPOSIT=1
```

User rename improvements

There are occasions when you must change a user’s hierarchical name, either because of a change in surname or a change in the organizational hierarchy to which the user belongs. In this situation, you must reflect this change in any design element (Reader Name field, Author Name field, ACL) that contains the original name. This way, the user still has the same access to information with their new name as they did with their original name.

In a Lotus Domino domain with many databases, this process can consume considerable resources. With Lotus Domino 8, the processing of the user rename administration request has the potential to be more efficient by using a new names list that you can store in a database. This names list contains the names of all the reader names entries and author names entries that are present within the database.

Instead of immediately searching every note in a database, you can do a quick check to identify whether a particular name appears in this list. If a name is found in the list, every note in the database is searched to identify all the fields where the name is stored and to replace these with the new name.

To store this names list, a database must be using the new on-disk structure (ODS) associated with Lotus Domino 8. See Appendix B, “Lotus Domino 8 server feature requirements” on page 169 for more information about the new ODS.

Also, the list of users maintained by the database code is limited to 4 KB. After the limit is reached, the administration process searches the database in the same manner as previous releases of Lotus Domino.

Critical request scheduling

In a large Lotus Domino domain, the administration process is likely to have many tasks to process, some of which are of a higher priority than others. Lotus Domino 8 offers features that give extra processing capability to particular tasks to speed up their completion.

Change scheduled request

You can specify the time interval, other than the default time interval, in which a specific type of administration request will execute. This value overrides the default settings. For example, you can set a request, such as “Rename in Person Documents” to run as an immediate request. The default period is daily.

To do this, identify the request numbers associated with the administration requests for which you want to change the schedule. A complete list of these is in the Lotus Domino 8 Administration Help database.

You then use the following NOTES.INI variables to specify that you want to change the default time intervals for one or more specific administration requests:

- ▶ ADMINP_IMMEDIATE_OVERRIDE
- ▶ ADMINP_INTERVAL_OVERRIDE
- ▶ ADMINP_DAILY_OVERRIDE
- ▶ ADMINP_DELAYED_OVERRIDE

The format for the NOTES.INI variable is:

<NOTES.INI variable>= X, X, X

Where each X represents the request number of an administration process request.

For example, if you want to schedule the requests “Rename in Person Documents” and “Delete in Person Documents” to run as immediate requests, add the following value to the NOTES.INI on the server that processes these requests:

ADMINP_IMMEDIATE_OVERRIDE=16.00, 19.00

Where 16.00 and 19.00 are the respective request numbers associated with these administration process requests.

Dedicated threads for immediate and interval requests

The number of processing threads used by the administration process is defined in the server document, as shown in Figure 3-35.

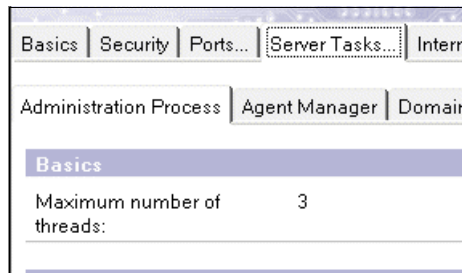


Figure 3-35 Server document setting for Administration Process threads

However, by default there is no prioritizing of administration requests. They are queued in the order in which they are created, and each of them is assigned a general processing thread when one becomes available.

In Lotus Domino 8, you can assign special purpose threads to two classes of administration requests: *immediate requests* and *interval requests*. Special purpose threads are not available for daily, delayed, or batched administration process requests.

These special purpose threads are not used if there are general threads available. However, at times when requests are being queued for processing, you can process immediate requests, interval requests, or both by these special purpose threads. The special purpose threads run concurrently alongside the general process threads, potentially reducing the time taken to complete the tasks with which the requests are associated.

Use the following NOTES.INI settings to specify the number of special purpose threads you want to use:

ADMINP_IMMEDIATE_THREAD=X
ADMINP_INTERVAL_THREAD=X

Where X is the number of special purpose threads.

3.5.5 Prevent simple search

The database property “Don't allow simple search” positively impacts server performance by preventing users from searching databases that do not have full-text search enabled.

By default, users can choose to search a database that does not have a full text index. They will get a result set that, because of the simple search algorithm used, might not help them find the information they need. However, there is a significant impact on the server when this type of search is carried out.

With Lotus Domino 8, an advanced database property has been introduced, as shown in Figure 3-36.

If this property is selected for large databases where there is no business need for a full text index (which has its own effect on a server performance), it can prevent the impact to server performance when users accidentally select the database as a target of a search query.

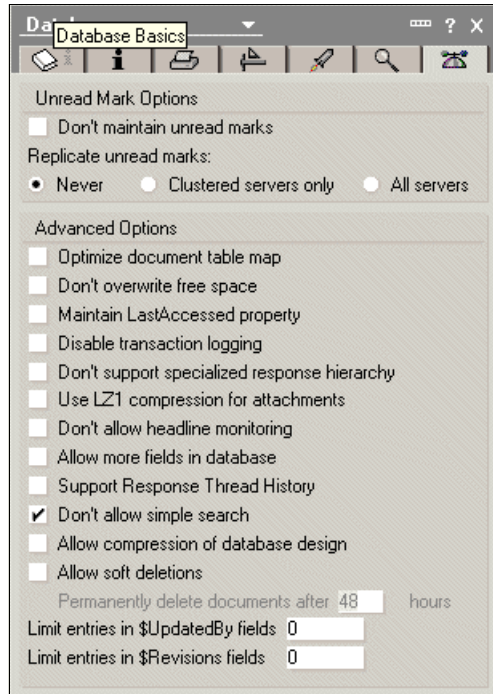


Figure 3-36 Advanced Database property: Do not allow simple search

3.5.6 Deferred sort index creation

With Lotus Notes and Domino 8, application developers can reduce the unnecessary server load from creating indexes for columns that are not being used. They can defer the creation of these indexes until the user first chooses to sort the view by a specific column. See 4.1.4, “Deferred sort index creation” on page 131 for more information.

If a user tries to carry out a search on a database where this setting has been selected and where the database does not have a full text index, the user receives a message indicating that the search will not be performed.

3.5.7 Agent design update enhancements

In releases of Lotus Domino prior to release 8, enabled agents in databases were disabled if a design update occurred because there was no mechanism to update the agent’s design and retain the original signature of the agent.

In Domino 8, a design update can preserve the identify of the agent owner in the “On Behalf” field and can re-sign the agent with the server ID. The agent’s enabled status is preserved

only if the original agent owner still has the rights to run agents and if the agent is scheduled to run on the server on which the design update is performed. If you cannot preserve the agent's enabled status, the design update is performed and a warning message is generated.

3.6 Directory

This section describes the new features and enhancements related to using directories within Lotus Domino 8.

3.6.1 Lotus Domino 8 Directory

In this section, we discuss the enhancements introduced in Lotus Domino 8 to the Lotus Domino Directory.

Lotus Notes client version view

A “People - by Client Version” view in the Lotus Domino 8 directory helps you quickly see what versions of Lotus Notes are deployed in your user community. You can access the new view from the navigator in the Lotus Domino Directory database, as shown in Figure 3-37. This new view determines which user workstations need to be upgraded and whether any users are running unsupported versions.

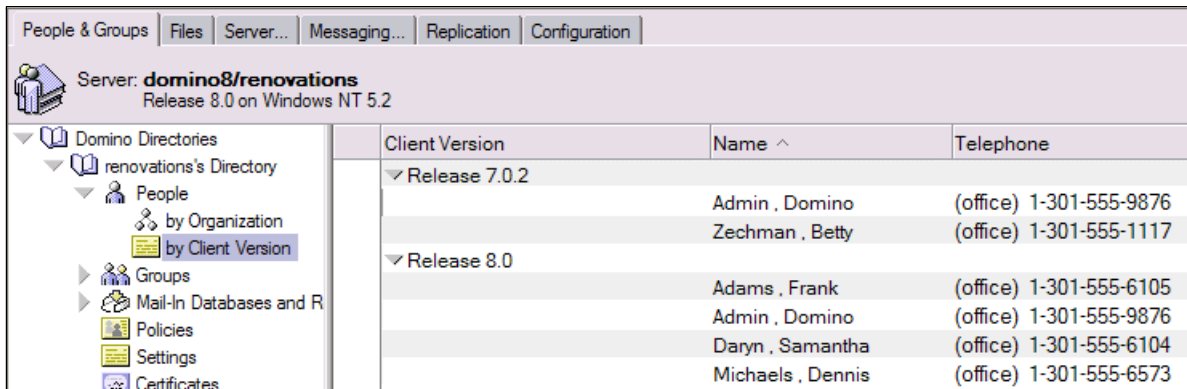


Figure 3-37 Accessing People by Client Version view

Authentication and authorization-only secondary directories

The directory assistance feature of Lotus Domino is a way for your Lotus Notes applications to achieve Internet authentication, group authorization, and mail addressing using secondary directories, both Lotus Domino and Lightweight Directory Access Protocol (LDAP).

Some clients use separate directories for authentication/authorization and for mail addressing. Directory assistance in Lotus Domino 8 specifies when a secondary directory must only be used for authentication/authorization (Figure 3-38 on page 116). This avoids unnecessary NAMELookups to authentication/authorization directories by reducing the number of “Ambiguous Name” dialog boxes, making mail lookup tasks more efficient, and reducing the load on authentication/authorization directory servers.

Basics | Naming Contexts (Rules) | Replicas

Basics

Domain type: Notes

Domain name:

Company name:

Search order:

Make this domain available to:

- Notes Clients & Internet Authentication/ Authorization
- LDAP Clients

Group Authorization: Yes

Use exclusively for Group Authorization or Credential Authentication: Yes

Enabled: Yes

Figure 3-38 Directory assistance form

Improved configuration for directory assistance LDAP directories

The directory assistance form for configuring secondary LDAP directories has been improved in Lotus Domino 8. To minimize the adding of invalid entries, Suggest and Verify buttons have been added to the form.

The Suggest button provides a list of likely entries for fields. For example, to help you input a valid host name, selecting the button looks up the host names of any LDAP servers listed in your Domain Name System (DNS) server.

The Verify button tries to validate the choice that you make. For example, as shown in Figure 3-39, to help you validate your choice of host name, selecting the button verifies that the host name is an active LDAP server.

DIRECTORY ASSISTANCE

Basics | Naming Contexts (Rules) | LDAP

LDAP Configuration

Hostname: domino8.renovations.com [Suggest] [Verify]

Optional Authentication Credential: Username: Password:

Base DN for search:

Channel encryption: None

Port: 389

Advanced Options

Timeout: 60 seconds

Maximum number of entries returned: 100

Dereference alias on search: Always

Preferred mail format: Internet Mail Address

Attribute to be used as Notes Distinguished Name:

Type of search filter to use: Standard LDAP [Suggest] [Verify]

Verify Hostnames

domino8.renovations.com:389
Success

Press the Start button to verify that each hostname is an active LDAP server by issuing an anonymous bind operation.

[Start] [OK]

Figure 3-39 Directory assistance configuration for LDAP

Improved group membership expansion

Determining the groups to which a user belongs is common use of directories and is essential for access control. However, this is a resource-intensive task, especially when groups are nested because LDAP applications usually perform one search for each level of nested group.

With Lotus Domino 8, a new LDAP attribute allows a single search to return the entire nested group membership for a user.

dominoAccessGroups

This attribute allows applications to search for access groups in a Lotus Domino LDAP server more efficiently. For example, you can replace the following search filters:

```
(&(objectclass=groupOfNames)(member=cn=Frank Adams,o=renovations))
```

Replace these search filters with the following attribute:

```
cn=Frank Adams,o=renovations?dominoAccessGroups?base?(objectclass=*)
```

This reduces network traffic, LDAP cache usage, and application complexity.

3.6.2 IBM Tivoli Directory Integrator

Tivoli Directory Integrator is a general purpose and integration toolkit that integrates Lotus Domino with other directories, databases, APIs, and protocols. It helps you synchronize identity data residing in various repositories throughout your organization: directories, databases, collaborative systems, and corporate applications.

With Lotus Domino 8, customers are granted an entitlement, or “right-to-use,” Tivoli Directory Integrator 6.1.1 with a Lotus Domino Directory at no additional cost.

Tivoli Directory Integrator is not a meta-directory and is not dependent on a central repository. It supports a wide variety of data sources, including CSV, XML, DMSL, JDBC™, NSF, and LDAP. The software makes it easy to transform data between systems and add your business logic.

Tivoli Directory Integrator consists of a graphical development environment for building and maintaining transformation and synchronization rules and a multi-threaded server that executes rules and monitors events.

You can use Tivoli Directory Integrator capabilities with Lotus Domino 8 to:

- ▶ Propagate and transform information about new, changed, and deleted Lotus Domino users to other LDAP directories.
- ▶ Detect changes in Microsoft Active Directory®, Sun™ Directory, and Tivoli Directory, and propagate/synchronize into Lotus Domino directory or database ACLs.

The diagram in Figure 3-40 on page 118 depicts some of the possible directory synchronization scenarios with Tivoli Directory Integrator and a Lotus Domino 8 directory.

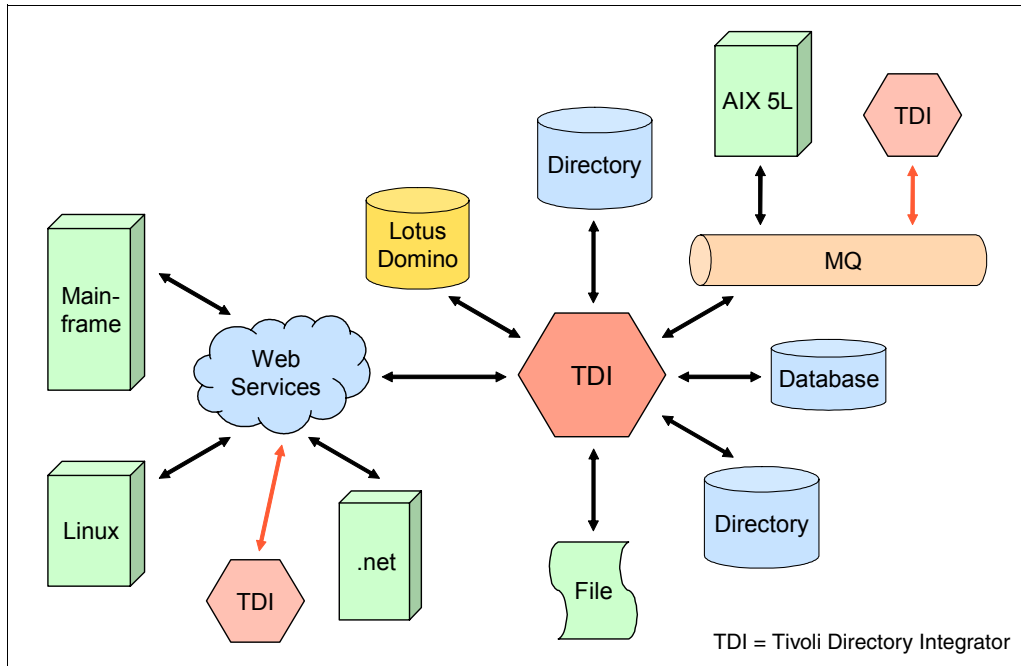


Figure 3-40 Tivoli Directory Integrator: Lotus Domino Directory synchronization examples

3.7 Security features

This section describes the new and updated features that can enhance the security of Lotus Notes and Domino 8.

3.7.1 Internet password lockout

Internet password lockout lets you set a threshold value for Internet password authentication failures for attempts to use Web-enabled Lotus Domino applications or Lotus Domino Web Access. This helps to prevent brute force and dictionary attacks on user Internet accounts by locking out any user who fails to log in within the established threshold value.

Note that you can only use Internet password lockout for HTTP access. Other Internet protocols and services, such as LDAP, POP, IMAP, DIIOP, IBM Lotus QuickPlace®, and Lotus Sametime are *not* currently supported.

This feature is enabled through the Security tab on the server configuration document, as shown in Figure 3-41 on page 119.

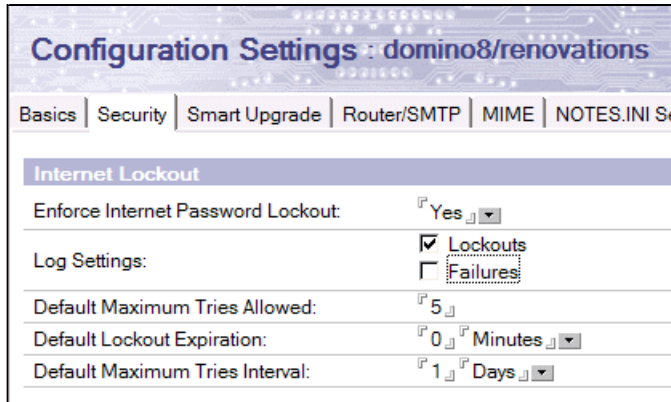


Figure 3-41 Configuring Internet Password Lockout

Details of the users who have been locked out are stored in the “Internet Password Lockout” database (INETLOCKOUT.NSF), as shown in Figure 3-42, from which administrators can monitor login failures and reset users who have been locked out.

Note that unlocking the user account does not change the password. It only re-enables the user’s ability to log in with the current password.

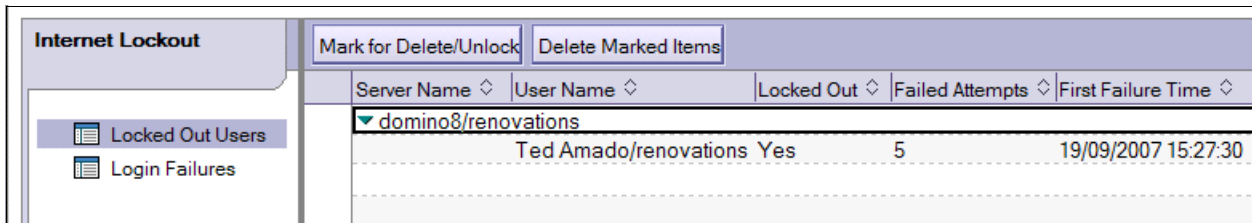


Figure 3-42 Internet Lockout database

If you require different Internet lockout parameters for different groups of users, you can use a security policy setting to change the defaults for a specific set of users, as shown in Figure 3-43.

Note that the Internet password lockout feature is enabled using the server configuration document. You can only use the security policy to override the default settings.

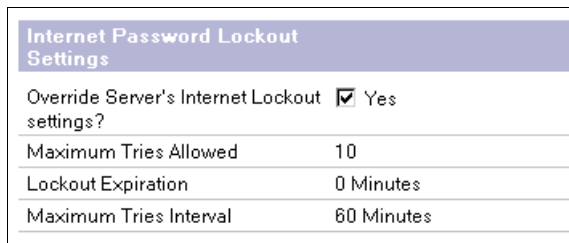


Figure 3-43 Security policy: Internet Password Lockout Settings

3.7.2 Certifier keys and key rollover

Every Lotus Notes and Domino user ID, server ID, and certifier ID has a pair of unique keys. A public key is used to authenticate users and servers, verify digital signatures, and encrypt messages and databases. A private key is used to sign and decrypt messages, or, in the case of a certifier ID, to sign certificates. In simple terms, the “strength” of a key, the time it takes to

decipher, is determined by its length. To keep ahead of the technologies available for deciphering keys, recent versions of Lotus Domino have introduced options to use longer keys.

Lotus Notes and Domino 8 adds support for 2048-bit keys for users and servers and 4096-bit keys for certifiers.

Key rollover, introduced in Lotus Domino 7, is the process used to update the set of Lotus Notes public and private keys that is stored in ID files. Periodically, this set of keys might need to be replaced, either in the event the private key has been compromised or to increase security by updating to a longer key.

In Lotus Domino 7, you configure key rollover for user IDs in security policies and key rollover for server IDs in the server document. With Lotus Domino 8, you configure key rollover for certifier IDs from the Lotus Domino 8 administrator client.

Rolling over a certifier affects the whole organization. After rolling over a certifier, you must recertify all user and server IDs that were issued by that certifier.

3.7.3 ID file recovery APIs

In the case of forgotten passwords or lost or corrupted IDs, it is necessary to have a mechanism for recovering IDs. These features have been available in Lotus Domino since version 6. However, new application programming interfaces (APIs) introduced with Lotus Domino 8 enable companies to integrate the security feature of ID file recovery with the convenience of custom, organization-wide management systems.

3.7.4 Certificate revocation checking through OCSP

Lotus Domino 8 introduces support for Online Certificate Status Protocol (OCSP), RFC 2560.

OCSP support enhances security for S/MIME signature verification, S/MIME encrypted sender verification, and SSL certificate verification.

This standard determines the revocation state of an X.509 certificate, giving more up-to-date information than a certification revocation list (CRL) because there is no CRL cache involved.

On the Lotus Notes client, enable OCSP through a security policy, as shown in Figure 3-44.

On-line Certificate Status Protocol (OCSP)	
<input checked="" type="checkbox"/> Enable OCSP checking	
Default OCSP Responder:	<input type="text" value="http://ocsp.example.org:80"/>
<input type="checkbox"/> Always use Default OCSP Responder	
Permitted Certificate Status:	Allow unrevoked known certificates only
Level of Detail recorded in the Client Log:	Do not log anything

Figure 3-44 Security policy settings: OCSP configuration

3.7.5 Single sign-on using LtpaToken2

Versions of Lotus Domino prior to version 8 supported the LtpaToken format that enabled you to set up single sign-on between Lotus Domino servers and WebSphere Application Servers.

WebSphere Application Server Version 5.1.1 and later support LtpaToken2. LtpaToken2 contains stronger encryption and adds multiple attributes to the token.

Lotus Domino 8 now supports the LtpaToken2 format, enabling you to configure the more secure single sign-on feature with WebSphere Application Servers that support this format.

3.8 Integration with other IBM products

This section describes the enhancements supporting the integration of Lotus Notes and Domino 8 with other IBM products.

3.8.1 Lotus Domino and DB2

In this section, we discuss the enhancements of the Lotus Domino and DB2 integration feature.

DB2 9.1

With Lotus Domino 8, the supported DB2 platform for the Lotus Domino and DB2 integration features is DB2 9.1. This offers the opportunity for enhanced performance and better management and backup features for Lotus Domino and DB2 integration.

Set a default DB2 user name

Lotus Domino 7 introduced Lotus Domino and DB2 integration features including the facility to create an SQL query of data stored on a DB2 server and display the result in a Lotus Notes view. To adhere to DB2 security mechanisms, it is necessary for Lotus Notes users accessing these views to authenticate with the DB2 server. To do this with Lotus Domino 7, administrators register an ID for each user in the directory used for authentication by DB2 and create a “Lotus Notes user to DB2 user” mapping in the Lotus Notes user’s person document in the Lotus Domino directory.

To maintain a mapping for all Lotus Notes users who will only use Query Views to access Domino data that has been exposed by DB2 Access views, Lotus Domino 8 introduces the concept of a default DB2 user name. As long as a default DB2 user name has been defined, Lotus Notes users can use Query views (that select data from DB2 Access views) without having to have a DB2 user name of their own registered on the DB2 server, or a Lotus Notes user to DB2 user mapping in their person document.

This default DB2 name is set from the DB2 server section in the Tools sidebar of the Lotus Domino 8 administrator client, as shown in Figure 3-45 on page 122.

Note that the Lotus Domino server’s DB2 user name and the default DB2 user name must not be the same.

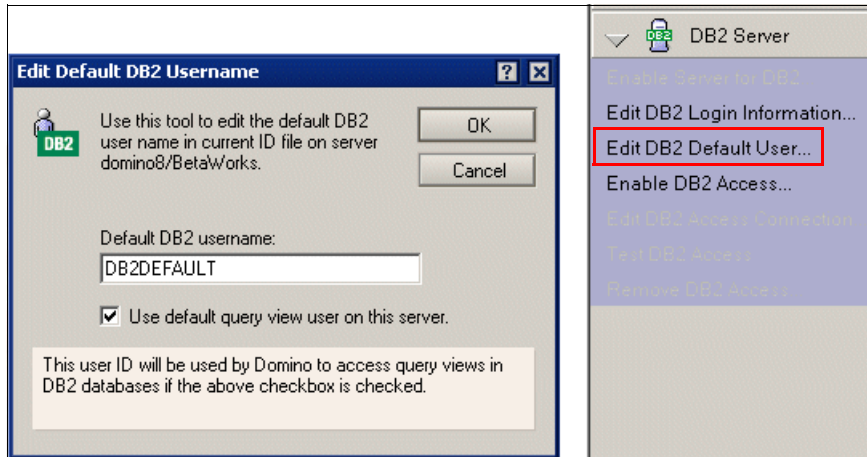


Figure 3-45 Set default DB2 user name

DB2 move container

Lotus Notes databases that are stored in DB2 are stored in DB2 containers. One DB2 container can store multiple Lotus Notes databases.

With Lotus Domino 8, an administrator can move DB2 containers from one disk to another disk (or if you are working with UNIX®, from one volume to another volume) using the Lotus Domino administrator client. This is useful for controlling how much disk space on a particular server is used by DB2 containers. This task is carried out by selecting the DB2 group that is to be moved and selecting **Move Container** from the DB2 Groups section in the Tools sidebar of the Lotus Domino 8 administrator client, as shown in Figure 3-46 on page 123.

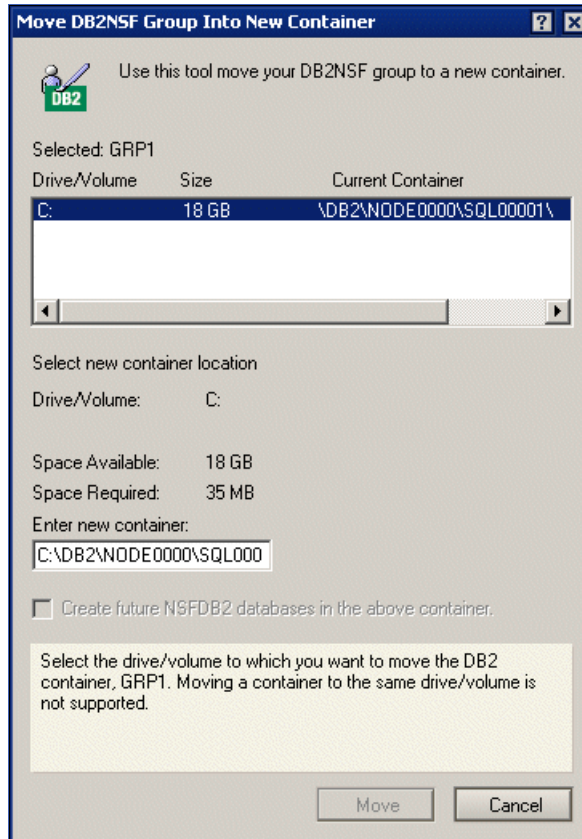


Figure 3-46 Move DB2 container

After moving DB2 containers, you can validate and re-create all the connections to the DB2-enabled Lotus Notes databases so that users can still access their data. The Lotus Domino 8 administrator client provides a reconciliation tool for creating link files for any DB2-enabled Lotus Notes databases that do not have these specified on the Lotus Domino server.

3.8.2 Lotus Domino and WebSphere Portal integration

The following sections describe areas of integration between Lotus Notes/Domino 8 and WebSphere Portal.

Lotus Domino and WebSphere Portal server federated administration

You can administer both Lotus Domino 8.0 servers and a WebSphere Portal Server 6.0.x servers from the WebSphere Portal server administration user interface. To administer both server types from one WebSphere Portal administration user interface, the Domino Web Administrator client user interface is linked to the WebSphere Portal administration user interface. The Domino Web Administrator user interface then displays with other WebSphere Portal-specific user interfaces as shown in Figure 3-47 on page 124.

Note: WebSphere Portal 6.0 and WebSphere Portal 6.0.0.1 servers need an iFix to make this feature available. This is *not* required for WebSphere Portal version 6.0.1 and later.

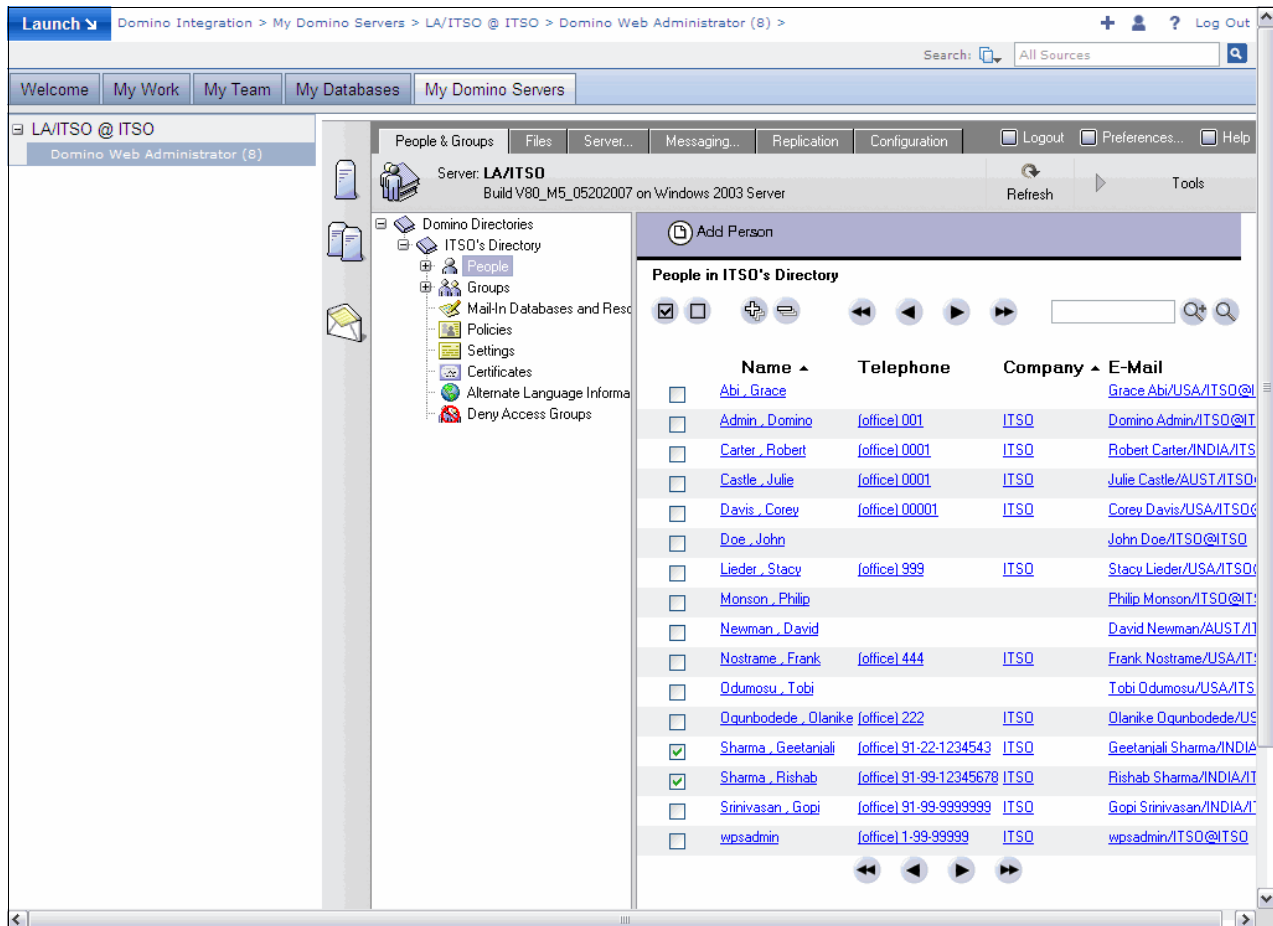


Figure 3-47 Lotus Domino Web Administrator interface within WebSphere Portal administration interface

Domino-Portal Integration Wizard

The Domino-Portal Integration (DPI®) Wizard simplifies the process of configuring a WebSphere Portal server to work with your Domino-based infrastructure. The DPI Wizard eliminates many of the manual Domino and WebSphere Portal configuration steps required to run the Common personal information management (PIM) portlets (CPP) and the Lotus Domino Extended Products Portlets (DEPP).

The wizard can now automate the following manual steps:

- ▶ Configure single sign-on:
 - Export LTPA token.
 - Create Web SSO document on Lotus Domino.
- ▶ Configure Lotus Sametime:
 - Single sign-on, enable awareness for Lotus Domino Web Access.
 - Set up trusted servers in STCENTER.NSF.
- ▶ Configure Lotus Domino Directory:
 - Single sign-on, DIOP.
 - Configure collaborative services to bind to Lotus Domino LDAP.
- ▶ Configure Lotus Domino mail servers (for each mail server):
 - Single sign-on, DIOP, NOTES.INI settings for HTTP, enable XML services.
 - Automatic detection of mail files.

Prerequisites

Note the following prerequisites:

- ▶ You must enable security features on WebSphere Portal to use Lotus Domino LDAP (a future release is currently expected to support non-Lotus Domino LDAP).
- ▶ Lotus Domino mail and application server version is 7.0.x or 8.0.x and running the HTTP server task.
- ▶ WebSphere Portal version is 6.0.1 and not configured with clusters.
- ▶ Lotus Sametime server version is 7.0.x or 7.5.x.
- ▶ All servers must be behind the same Internet security firewall and in the same Internet domain.

See the WebSphere Portal Information Center document for more information at:

http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp?topic=/com.ibm.wp.ent.doc/collab/i_domi_c_wizard_messaging.html

WebSphere Portal composite application support for Lotus Notes 8

If users create, edit, or view composite applications that contain portlets from a WebSphere Portal, then you must install WebSphere Portal composite application support for Lotus Notes on WebSphere Portal. The code for this is included with the Lotus Domino media and is also available from IBM Passport Advantage®.

Users can access the WebSphere Portal hosted composite applications and composite application templates from the Notes 8 client, provided the client preferences have the correct settings for the Home Portal Account. You can create the Home Portal Account for Lotus Notes users either manually through the preferences dialog or by the administrator using Domino Directory policy documents. The example shown in Figure 3-48 on page 126 shows adding the information in the preferences.

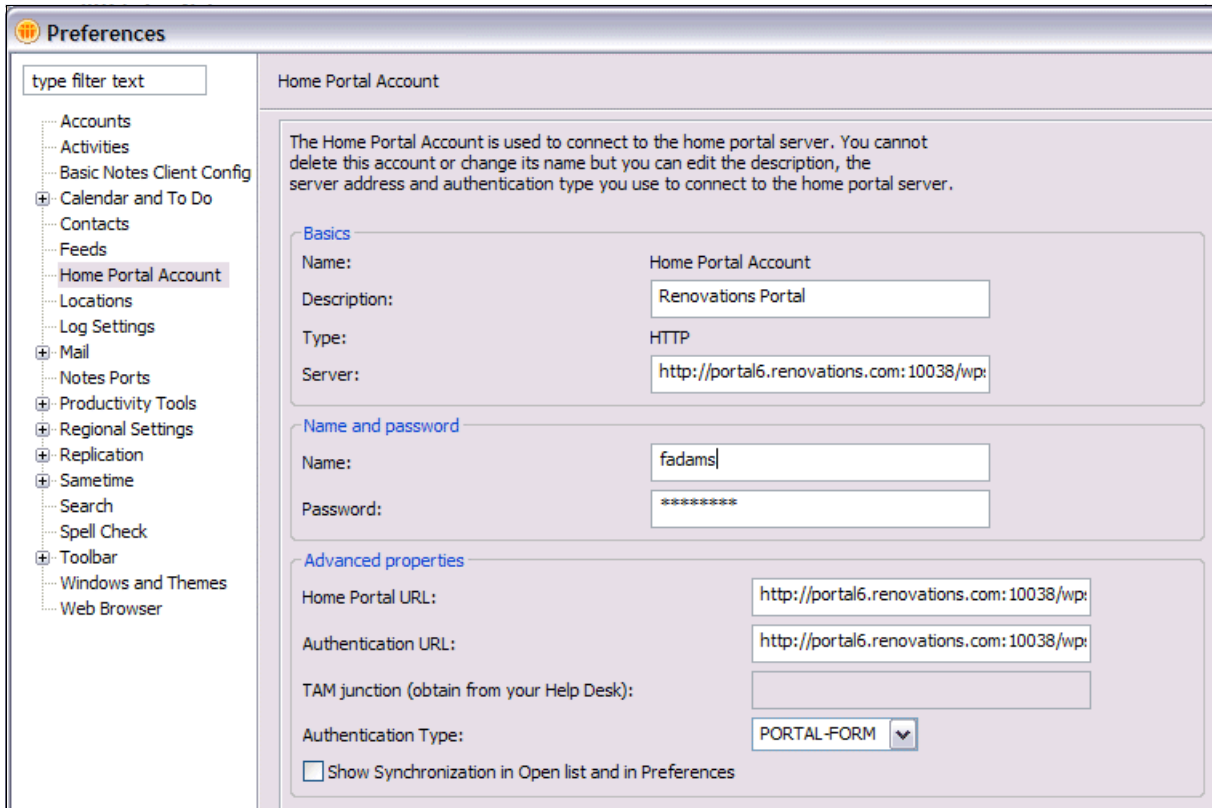


Figure 3-48 Home Portal account

When a Home Portal account has been configured, two options are automatically added to the Open menu as shown in Figure 3-49 on page 127.

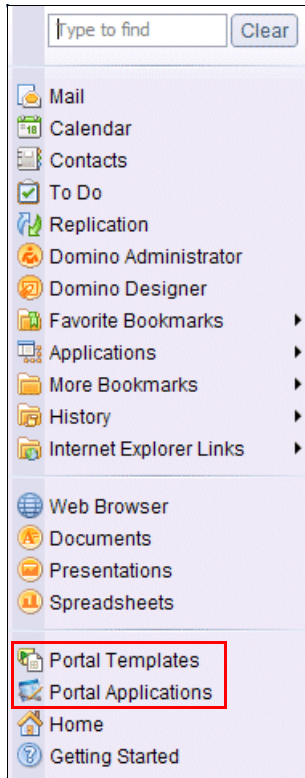


Figure 3-49 Open menu with WebSphere Portal options

Selecting the WebSphere Portal Applications menu option authenticates the user with WebSphere Portal and displays the composite applications to which the user has access, as shown in Figure 3-50.

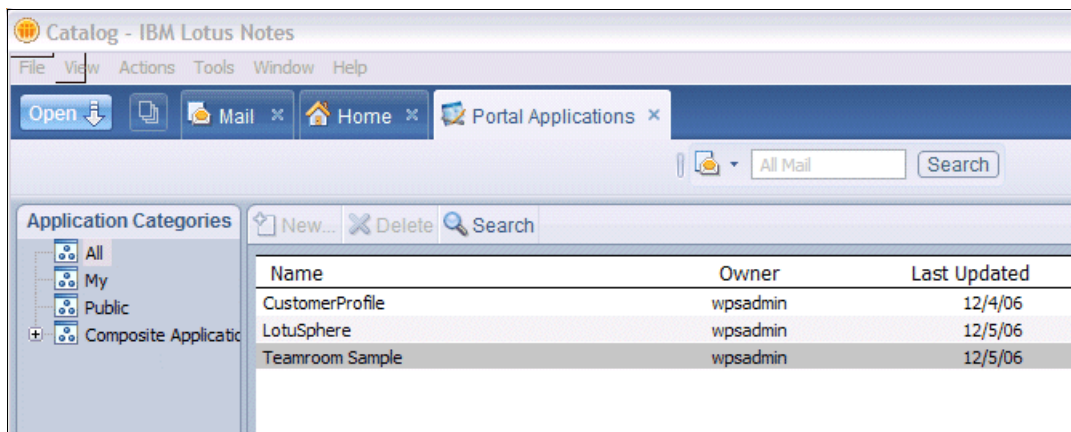


Figure 3-50 WebSphere Portal composite applications available in Lotus Notes 8 client

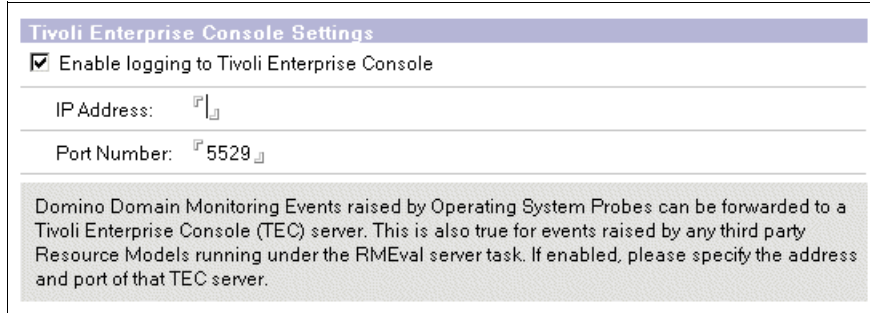
You can use the Composite Application Editor feature of Notes 8 to modify the assembly and wiring of WebSphere Portal hosted composite applications from the Notes 8 client.

3.8.3 Lotus Domino 8 integration with Tivoli Enterprise Console

With Lotus Domino 7, you can configure events generated by operating system probes to be forwarded to Tivoli Enterprise Console and be viewed alongside other enterprise application events in a single monitoring interface.

With Lotus Domino 8, you can configure any events to be forwarded to a Tivoli Enterprise Console.

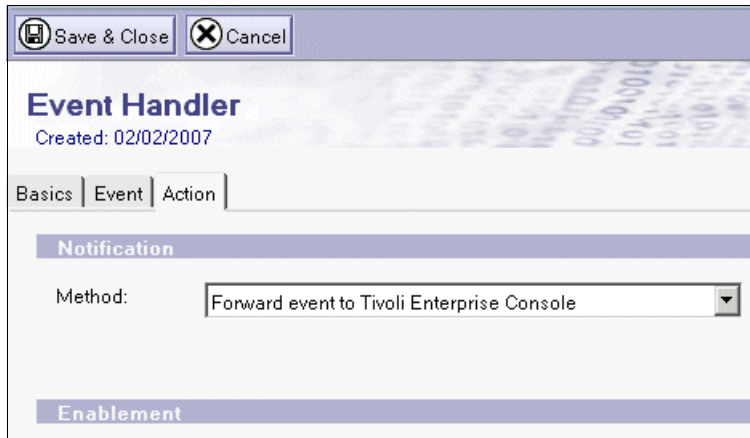
First, configure the connectivity to the Tivoli Enterprise Console through the Lotus Domino server configuration document, as shown in Figure 3-51.



The screenshot shows a configuration window titled "Tivoli Enterprise Console Settings". It features a checked checkbox for "Enable logging to Tivoli Enterprise Console". Below this, there are two input fields: "IP Address:" and "Port Number:". The "Port Number:" field contains the value "5529". At the bottom of the window, there is a text box containing the following text: "Domino Domain Monitoring Events raised by Operating System Probes can be forwarded to a Tivoli Enterprise Console (TEC) server. This is also true for events raised by any third party Resource Models running under the RMEval server task. If enabled, please specify the address and port of that TEC server."

Figure 3-51 Tivoli Enterprise Console Settings in server configuration document

Then, you can configure Event Handler documents in the Monitoring Configuration database (EVENTS4.NSF) to forward the events to the Tivoli Enterprise Console, as shown in Figure 3-52.



The screenshot shows a configuration window titled "Event Handler" with a "Created: 02/02/2007" timestamp. At the top, there are "Save & Close" and "Cancel" buttons. Below the title, there are three tabs: "Basics", "Event", and "Action". The "Event" tab is selected. Under the "Event" tab, there is a "Notification" section with a "Method:" label and a dropdown menu. The dropdown menu is set to "Forward event to Tivoli Enterprise Console". At the bottom of the window, there is an "Enablement" section.

Figure 3-52 Configuring Event Handler to forward event to Tivoli Enterprise Console



Changes for the application developer

This chapter describes the new and enhanced features available for application development in Lotus Notes and Domino 8. This includes options to enhance existing Lotus Notes applications and the new types of applications that you can build by taking advantage of the Eclipse-based application development framework.

This chapter discusses the following topics:

- ▶ Enhancements for existing Lotus Notes applications
- ▶ Composite applications
- ▶ Extending the Lotus Notes 8 sidebar and toolbar
- ▶ Enhancements for Web service providers
- ▶ Web services consumer support
- ▶ Lotus Domino and DB2 integration

4.1 Lotus Notes and Domino applications

As with every other version of Lotus Notes, Lotus Notes and Domino 8 offers backward compatibility for Lotus Notes applications. All applications developed for previous versions of Lotus Notes and Domino run without the need for redesign.

Lotus Notes 8 and Lotus Domino Designer 8 gives you opportunities to significantly enhance your existing Lotus Notes applications using DB2 integration, as discussed in section 4.6, “Lotus Domino and DB2 integration” on page 161, and to reuse elements of your Lotus Notes applications as components in composite applications, as discussed in section 4.2, “Composite applications” on page 137. Your Lotus Notes applications can include Web service consumer functionality, as described in section 4.4, “Web service consumer applications” on page 155.

All of these enhancements extend the value of any current investment in Lotus Notes and Domino by offering opportunities to integrate existing Lotus Notes applications with other data and application sources within your company and to bring new application functionality to the Lotus Notes user.

In addition to these enhancements, you can include the following new design features in Lotus Notes applications designed with the Lotus Domino Designer 8.

4.1.1 More control over right mouse menu actions

Lotus Notes and Domino 7 introduced the ability to define custom actions (that you develop in your applications) to appear on the right mouse menu alongside the default right mouse menu entries (for example, Document Properties, Copy as Document Link, and Search this View).

With Lotus Domino Designer 8, you can choose not to display the default entries in the right mouse menu, as shown in Figure 4-1. This can make it easier for users to identify the specific actions that you have defined for a particular view or folder.

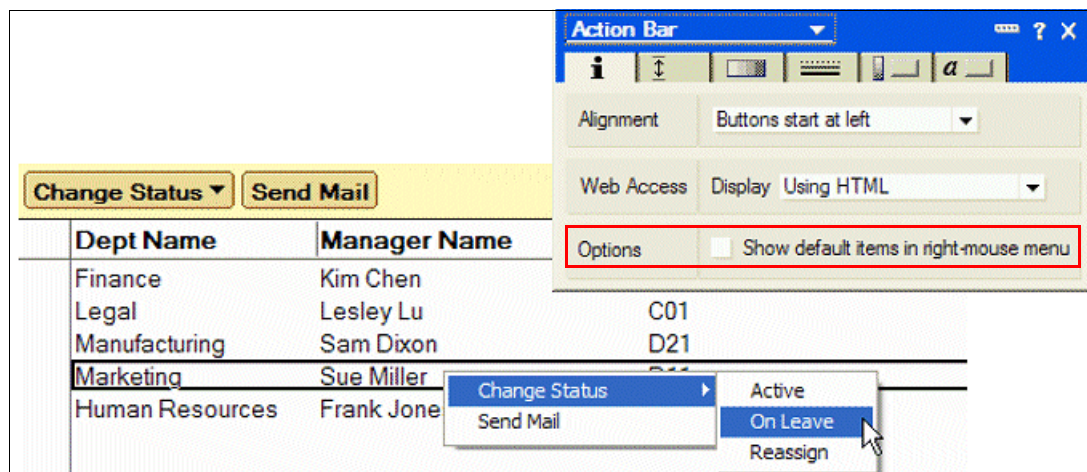


Figure 4-1 Right mouse menu: Without default items

4.1.2 Bytes column type

Lotus Domino Designer 8 allows you to use a new column format for number columns that enables the column contents to be displayed automatically in kilobytes, megabytes, or gigabytes, depending on the document size, as shown in Figure 4-2.

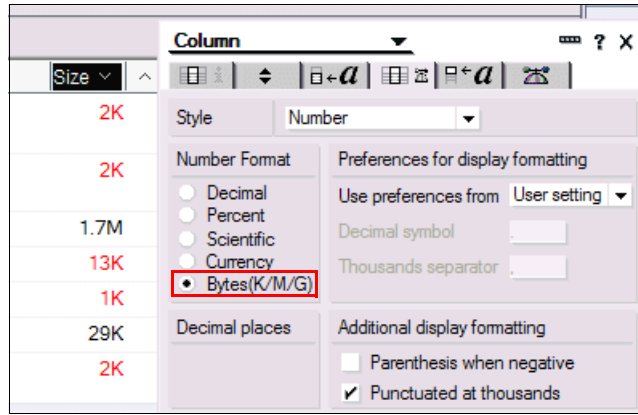


Figure 4-2 New number format for columns

4.1.3 Extend to use available window width

In previous releases of Lotus Notes and Domino, you had the option to set the last column in a view to expand to fill the available window. With Lotus Notes and Domino 8, you can select which column in the view extends to use the available window width, as shown in Figure 4-3.

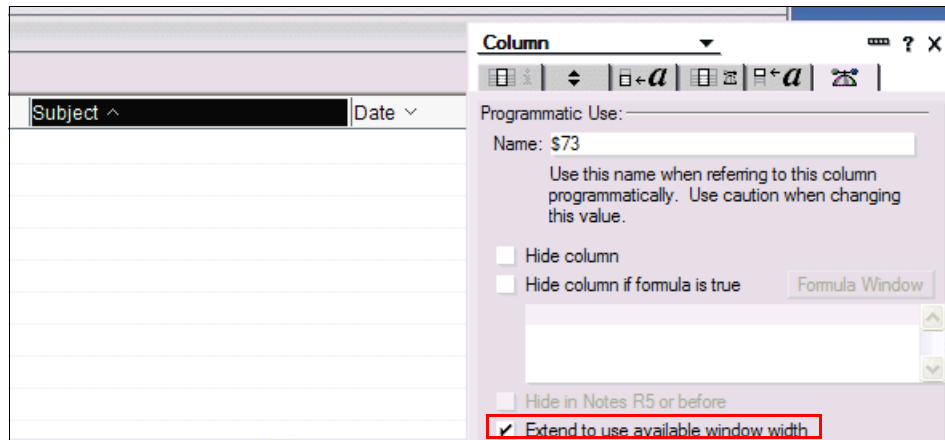


Figure 4-3 Choose column that extends to use available window width

4.1.4 Deferred sort index creation

You can give users the ability to sort their views and folders by any of the columns that you have defined with the “Click on column header to sort” option. However, creating indexes does add to the Lotus Domino server load.

With Lotus Notes and Domino 8, you can reduce the unnecessary server load (from creating indexes for columns that are not being used) by deferring the creation of these indexes until the user first chooses to sort the view by a specific column. This is defined in the column definition, as shown in Figure 4-4 on page 132.

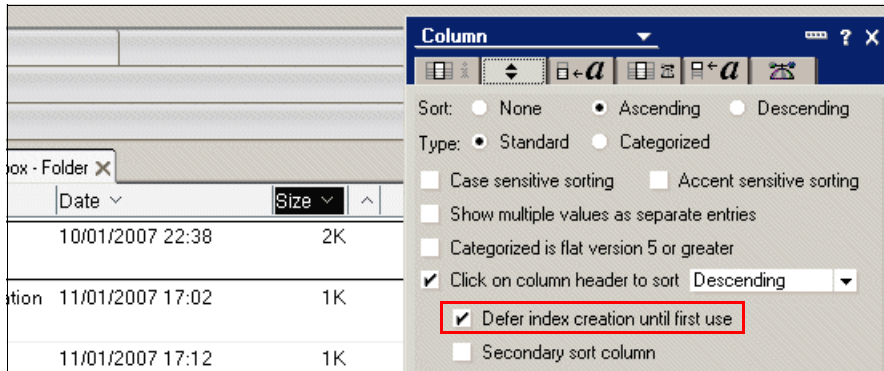


Figure 4-4 Defer index creation until first use

4.1.5 Advanced application options

Lotus Notes and Domino 8 includes three new advanced options in the application properties as shown in Figure 4-5.

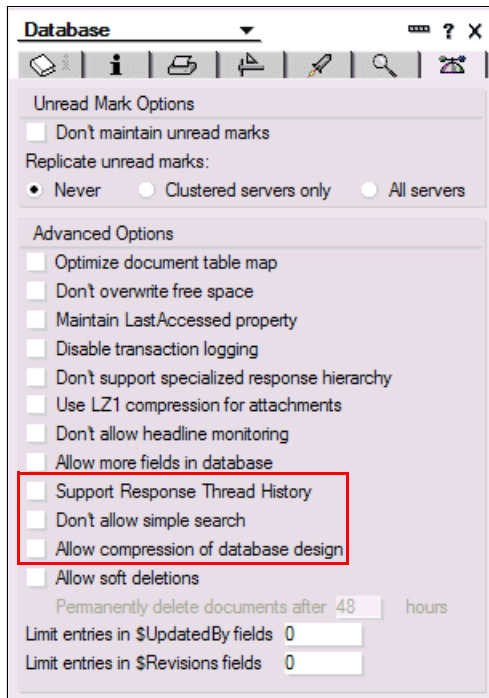


Figure 4-5 Advanced application options

If “Support Response Thread History” is selected, documents in the application contain additional information fields, allowing them to be sorted into a document response hierarchy.

Note: Selecting this option has no effect on existing documents. Existing threads are not identified or rendered as such and only new threads take part in the feature. This is true even if a new replica or copy is made of an application with existing threads. Only new documents are processed for thread citizenship and given a place in the hierarchy.

The other two options are discussed in Chapter 3, “Changes for the administrator” on page 87, in sections 3.5.1, “Design note compression” on page 110 and 3.5.5, “Prevent simple search” on page 113.

4.1.6 Thumbnail support

Lotus Notes and Domino 8 introduces a new rich text light field option that enables end users to add an inline graphic to a form, as shown in Figure 4-6. Developers have the option to resize the graphic to a specific width and height to provide a consistent look and feel across documents that use this form. Developers can also specify an image attachment name for subsequent programmatic use.

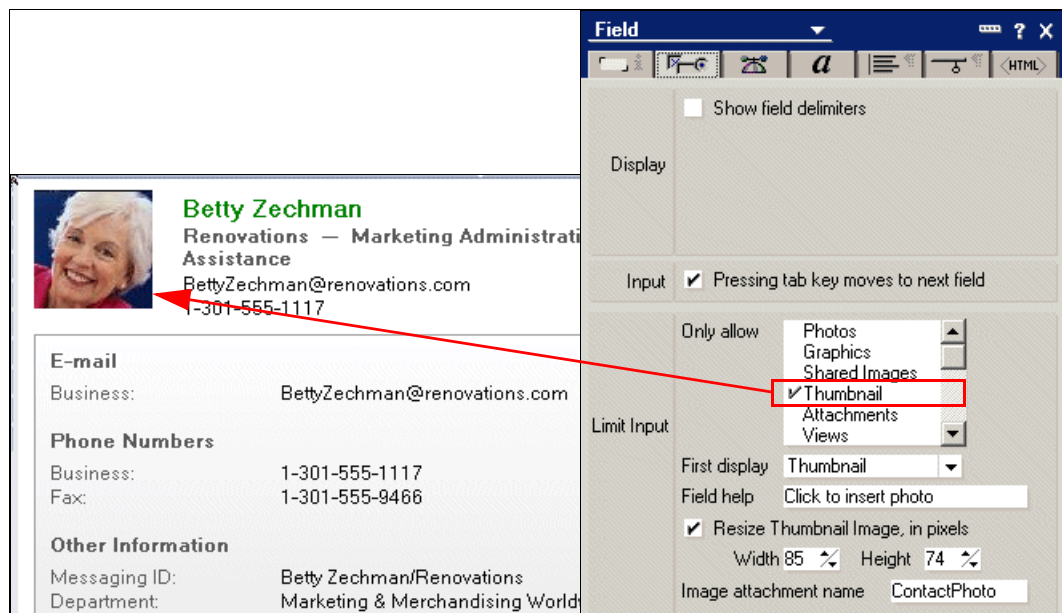


Figure 4-6 Thumbnail support

4.1.7 Programming language additions

There are numerous additions to both the Lotus Notes formula language and the LotusScript API. See the Lotus Domino Designer 8 online help for detailed information about how to use these.

Lotus Notes formula language

The additions to the Lotus Notes formula language include:

- ▶ @AbstractSimple
- ▶ @GetViewInfo (new attribute IsViewFiltered)
- ▶ @IsUsingJavaElement
- ▶ @URLQueryString (now allows dynamic DB2 Query Views)
- ▶ @UserRoles (no application location limit)
- ▶ @Version (new version numbers)
- ▶ @Command([CalendarFormat])(two work week and one work month formats)
- ▶ @Command([CopySelectedAsTable])
- ▶ @Command([OpenInNewWindow])

LotusScript API and Java

Close to 50 new LotusScript/COM/OLE classes, methods, and properties and approximately 30 new Java/CORBA classes, methods, and properties have been added with Lotus Notes and Domino 8. See the Lotus Domino Designer 8 online help for details.

Support for Java 5

Lotus Notes and Domino 8 includes new IBM Java SE technology. This new version typically provides a measurable increase in performance along with increased reliability, increased serviceability, and a smaller footprint than previous versions. It also allows the use of the new Java 5 syntax. Highlights include:

- ▶ Performance enhancements: New garbage collector that configures garbage collection for the application. You can also use a new configurable option of shared classes, which has the potential to reduce the loaded footprint and decrease JVM™ load time.
- ▶ High reliability: New Java SE technology from IBM has been engineered to be more reliable and more easily serviced in the field. There are new facilities, such as trigger trace, where tracing is done in the field and the results are returned for analysis.
- ▶ New for Lotus Notes/Domino 8 is the Just-In-Time (JIT) compiler. This feature compiles and optimizes the byte codes, depending on usage. Compiling the byte codes to the native platform makes the application much faster. This compilation is done dynamically, allowing the JVM to optimize performance at run time. Also, because the JIT compiler compiles down to the hardware, it optimizes the performance of Lotus Notes and Domino on whatever platform it is being run. The Just-In-Time compiler is activated by default.
- ▶ New for Lotus Notes/Domino 8 is the ability for the user to select (through the use of an ini variable) the full use of the new Java 5 language features.

Web application enhancements

Lotus Domino 8 includes the following Web application enhancements.

Reserved Name fields give you more granular control over the display of forms and rich text fields:

- ▶ `$$HTMLTagOptions`
- ▶ `$$HTMLFrontMatter`
- ▶ `$$HTMLOptions` (to control behavior of entire form)
- ▶ `$$HTMLOptions[_FieldName]` (to control behavior of specific field on form)

For example, with `$$HTMLOptions`, you control the formatting of tables and the expansion of sections within a form or document. You can also use this to disable passthru HTML to prevent a user from entering HTML code in a field that can run when another user opens the document through a browser.

Developers also have new options to enhance the behavior of views in Web browser applications by using new arguments for the Domino URL `?OpenView`:

- ▶ `&NavigateReverse`
- ▶ `&ResortAscending`
- ▶ `&ResortDecending`
- ▶ `&KeyType`

In further support of AJAX Web applications, Lotus Domino 8 provides JavaScript Object Notation (JSON) as an output format using the following to let you more quickly create AJAX Web applications:

```
<DominoURL>?ReadViewentries&Outputformat=JSON
```

4.1.8 On server start agents

Lotus Notes and Domino 8 provides a new trigger for agents to run only when the server starts, as shown in Figure 4-7. This improves server performance because tasks that are carried out as a result of a server restart are not redundantly performed at any other time, including after a restart of the agent manager.

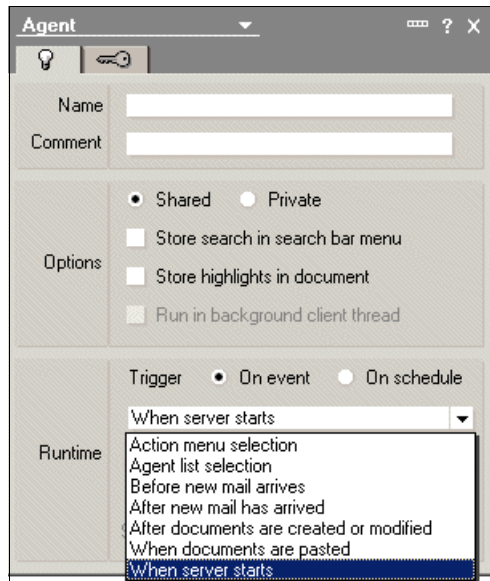


Figure 4-7 Agent to run when server starts

4.1.9 Scheduled agent enhancement

Programmers often need to code scheduled agents that do not depend on selecting a collection of documents, either because the document collection is generated within the agent logic or because the agent is required to perform a non-document-related action, such as the sending of an e-mail.

In previous versions of Lotus Notes and Domino, the agent design insisted on a document collection being created even if it was not used. In Lotus Notes and Domino 8, there is new selection option for scheduled agents as shown in Figure 4-8 on page 136. Programmers can now write more efficient applications by selecting “None” as the target when the action they are coding does not require a collection of documents to be selected.

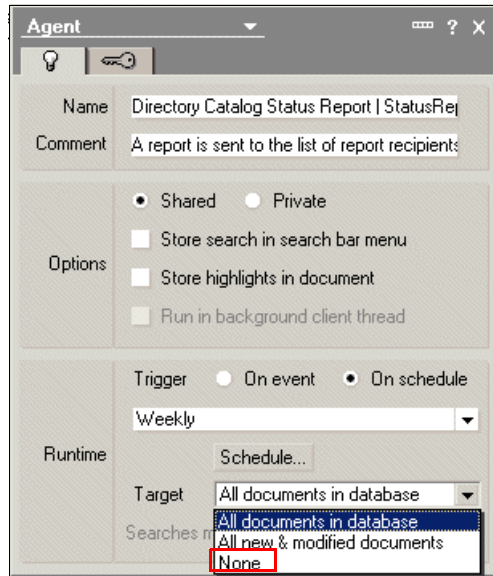


Figure 4-8 New option for scheduled agent target

4.1.10 Lotus Domino XML enhancements

Lotus Domino XML (DXL) is a representation of Lotus Domino data and design elements in XML format and provides a great way for exposing Lotus Domino application data to other platforms. DXL was originally introduced in Lotus Domino 6 and support has been evolving since then to support as many of the NSF design elements as possible.

Using DXL, developers can manage data in additional ways and can move Lotus Domino data outside the NSF and use tools other than Lotus Domino Designer for crafting different applications or widespread updates of design elements.

The most common uses of DXL are:

- ▶ To import XML data from external databases or applications into Lotus Domino applications.
- ▶ To export XML data from Lotus Domino applications into other applications or databases.
- ▶ To modify data in a Lotus Domino application by exporting DXL, making changes, and then re-importing the data back to Lotus Domino.
- ▶ As an alternative Lotus Domino API: In many cases, it is easier to read and write information using DXL than with existing APIs.
- ▶ To archive information in a format that can be searched outside the context of Lotus Domino.

With Lotus Domino 8, the following additional design elements are supported:

- ▶ DB2 access views
- ▶ DB2 query views
- ▶ Layers
- ▶ MIME e-mail messages
- ▶ Exporter filtering
- ▶ LZ1 attachments

Also in Lotus Domino 8, there are new properties to help you better work with documents and with rich text fields through DXL; for example, when you do not want to include all the fields in the Lotus Notes document or do not want to include all the content in the rich text field.

Note: All versions of DXL support all design elements using the “note format,” where the items in the note are listed out with binary items expressed in base64 notation. Support, in context of the above list, refers to the option of expressing the notes in “descriptive” notation. The options are expressed as XML elements and attributes instead of hidden in the cryptic binary data.

For more information about DXL, see the following Web site at:

<http://www.ibm.com/developerworks/lotus/library/app-dxl/>

4.2 Composite applications

Lotus Notes 8 software incorporates the open standards of the Eclipse application development framework, plus the capabilities of Lotus Expeditor for a component-based user interface to your service-oriented architecture (SOA). This provides a foundation to make it easy to combine, access, and deploy functionality from a mix of software programs. You, as a developer, have the opportunity to build applications more quickly, use different technologies, and reuse existing assets as business needs evolve. Your users gain access to tools they need for their specific job roles from directly within the Lotus Notes 8 client.

IBM Lotus Notes and Domino 8 software makes it easy for you to integrate line-of-business (LOB) solutions and data into a new class of applications called composite applications.

Composite applications can provide access to information from multiple sources, for example, a Lotus Notes application, a Java application, the Web, or a customer relationship management application. Application components can publish information and be wired to one another so, when users perform an action such as selecting a new view row or entering data in a document, the displayed content in the other wired components also changes.

With composite applications, you can design reusable components and then mix and match these to create a wide variety of applications with minimal or no additional code. Available online or offline, composite applications can facilitate self-service activities for end users anywhere. Using the composite application editor feature of Lotus Notes 8 software, authorized users and LOB managers can easily mix and match the application building blocks that you develop into their own customized applications.

Composite applications can help boost return on investment by leveraging your existing technology, such as IBM WebSphere Portal and Lotus Domino infrastructures and other enterprise systems. You can reuse previously developed Eclipse technology-based components within the composite applications hosted on Lotus Domino 8 software, helping to increase return on investment in application development tools and skills.

Both Lotus Domino 8 and WebSphere Portal 6 servers can host composite applications. The diagram shown in Figure 4-9 on page 138 illustrates the potential relationships between the hosting platforms and their capabilities.

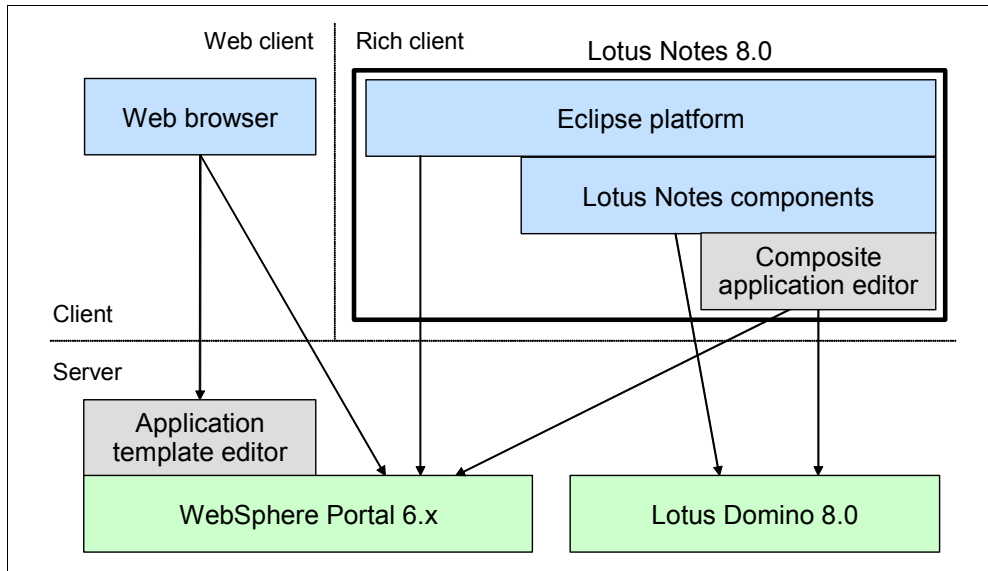


Figure 4-9 Overview of composite application hosting options

If you use WebSphere Portal as your hosting platform, you can create composite applications that you can access using a Web browser and a Lotus Notes 8 client. You can define your composite applications using either the composite application editor of Lotus Notes 8 or the application template editor provided with WebSphere Portal.

If you use Lotus Domino as your hosting platform, you can define your composite applications using the composite application editor of the Lotus Notes 8 client. You can then also replicate the application to a Lotus Notes 8 client to allow offline access to the application.

IBM Lotus Domino Designer 8 provides new features to help the developer extend Lotus Notes application design elements to be used as components. Section 4.2.2, “Building composite application components” on page 140 gives an overview of this process and the features used.

The new composite application editor feature of Lotus Notes 8, discussed in section 4.2.3, “Assembling and wiring composite application” on page 145, lets you assemble multiple components into a single composite application and define the wiring of the components in a 1-to-1 or 1-to-many relationship. This activity does not require any coding and can be performed by authorized LOB managers rather than IT developers.

4.2.1 Example of a composite application

The composite application example has three components: an NSF component from a Notes application based on the Notes Contacts design, an NSF component from a Notes application based on the Notes discussion design, and an Eclipse-based Tag Cloud component. Each component has a defined interface that is wired in event/action relationships with other components. You can reuse each component in different composite applications, and you can use the Notes applications as free standing applications.

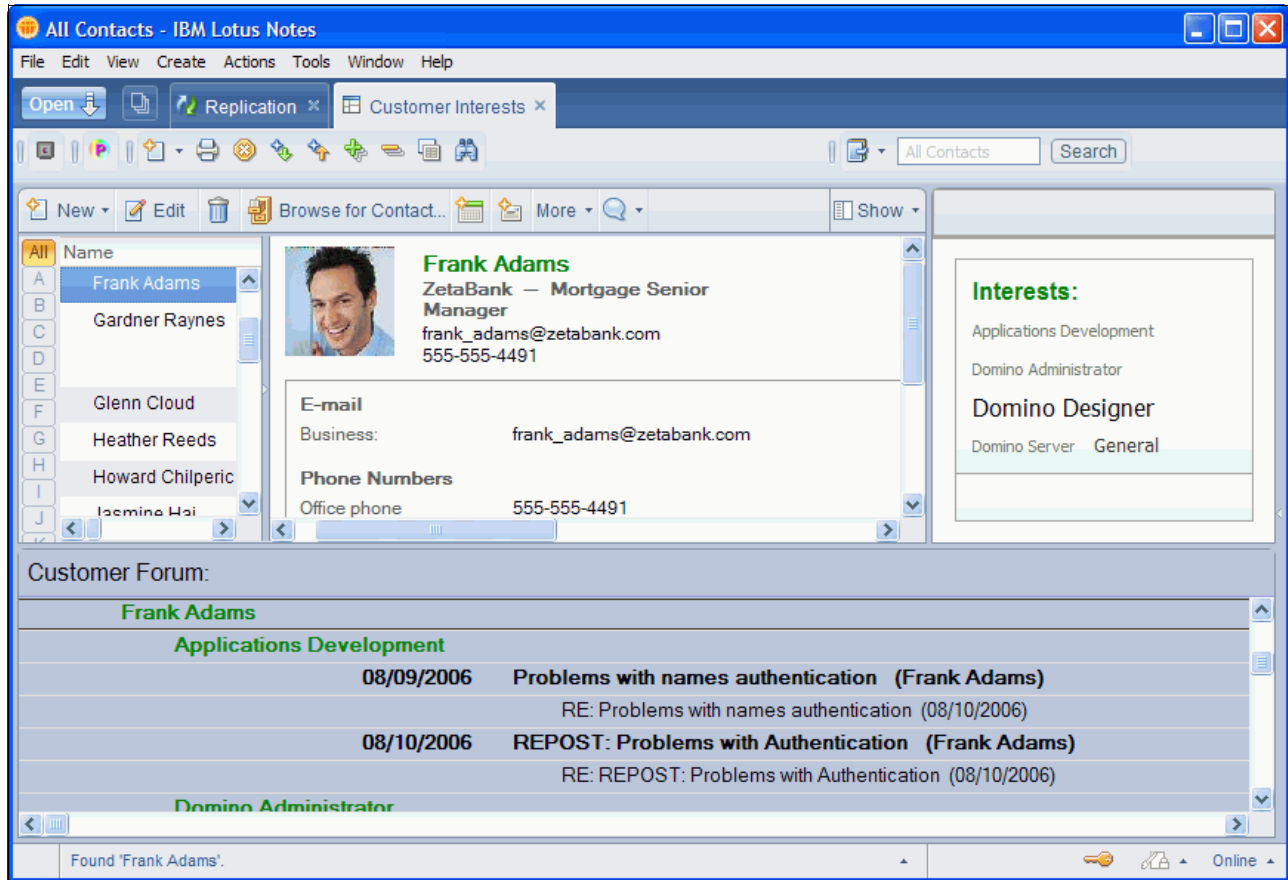


Figure 4-10 Composite application example

Positioned at the top left of the example application is the Notes Contacts component, formerly known as the Personal Name and Address Book. This component also has the preview pane open in vertical mode, allowing the user to see the details of the selected contact.

Positioned at the bottom is the Notes discussion component, a separate Lotus Notes application with documents authored by various users.

Positioned at the top right of the application is the third component, an Eclipse-based tag cloud.

Event/action relationships exist in this composite application because of the defined interfaces of the components and the wiring specific to this composite application. A user of this composite application can select a name in the Notes Contacts component and the other two other components will display information relevant to the selected user. The user can also select a topic listed in the tag cloud component and the Notes discussion component will display documents from that topic that are related to the previously selected user.

The pre-assembled version of this example application, a tutorial on how to build this example composite application and a more complex example, the Lead Manager sample composite application, are available from the following URL at:

<http://www.ibm.com/developerworks/lotus/composite-apps/>

4.2.2 Building composite application components

A composite application component can either be an NSF component (an element from a Lotus Notes application) or an Eclipse-based component. This section concentrates on creating NSF components from existing Lotus Notes applications and combining them with a pre-built Eclipse-based component.

For more information about building Eclipse-based components for composite applications, see the following article at:

<http://www.ibm.com/developerworks/lotus/library/expeditor-property-broker/index.html>

Without modifying an existing Lotus Notes application, you can use the composite application editor feature to simply surface the views, forms, documents, and other elements of the Lotus Notes application as components within a composite application. However, if you want to implement inter-component communication to support improved user efficiency, use the new features of Lotus Domino Designer 8 to extend the NSF elements that will be surfaced as components.

To implement inter-component communication, you need to perform the following steps:

1. Define the properties that will be published by components and the actions that will be taken by components that are wired to publishing components. See “Create properties and actions for component” on page 140.
2. Modify the individual NSF design elements to link them to the properties and actions. See “Modify NSF components” on page 142.

Create properties and actions for component

When identifying the properties and actions that your application components require, define the following values for each property and action:

- ▶ **Namespace:** A namespace is a unique descriptor that represents a collection of entities. The concept of namespaces is used to avoid confusion regarding entities that have the same name, but do not hold the same kind of data and, thus, must not be wired together. The name used for a data type (defined in the next bullet) can exist in multiple namespaces. However, as long as the name is unique within a specific namespace, you can use it in the composite applications editor. In the sample application, the namespace is “com.ibm.propertybroker.standardtypes”.
- ▶ **Data types:** Data types link together entities that have the same data definition. Note that the data definition does not need to be supplied with the name of the data type, but developers must ensure that they only assign a specific data type to entities that have the same definition. For example, if you define an entity with a data type of “String”, then you can only link it together with another entity that has a data type of “String”.

Note that you can use properties and actions in multiple scenarios, allowing the potential for your components to be re-used in many different applications.

When you have determined the properties and actions for a component, use the Property Broker Editor feature of Lotus Domino Designer to generate the WSDL file (used when the component is wired to another component) from the new Composite Applications and Wiring Properties section in the Lotus Domino Designer 8, as shown in Figure 4-11 on page 141.

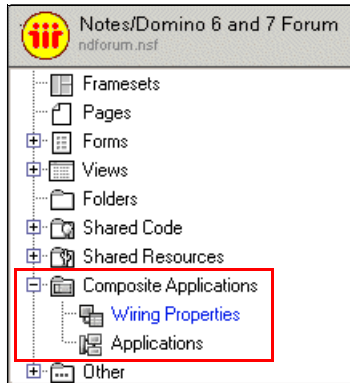


Figure 4-11 Composite Applications section in Lotus Domino Designer

With the Wiring Properties list of Lotus Domino Designer 8, you can create a new WSDL file. When you open the WSDL file from Lotus Domino Designer 8, it opens the Property Broker Editor where you can easily define the properties, as shown in Figure 4-12, and the actions, as shown in Figure 4-13 on page 142.

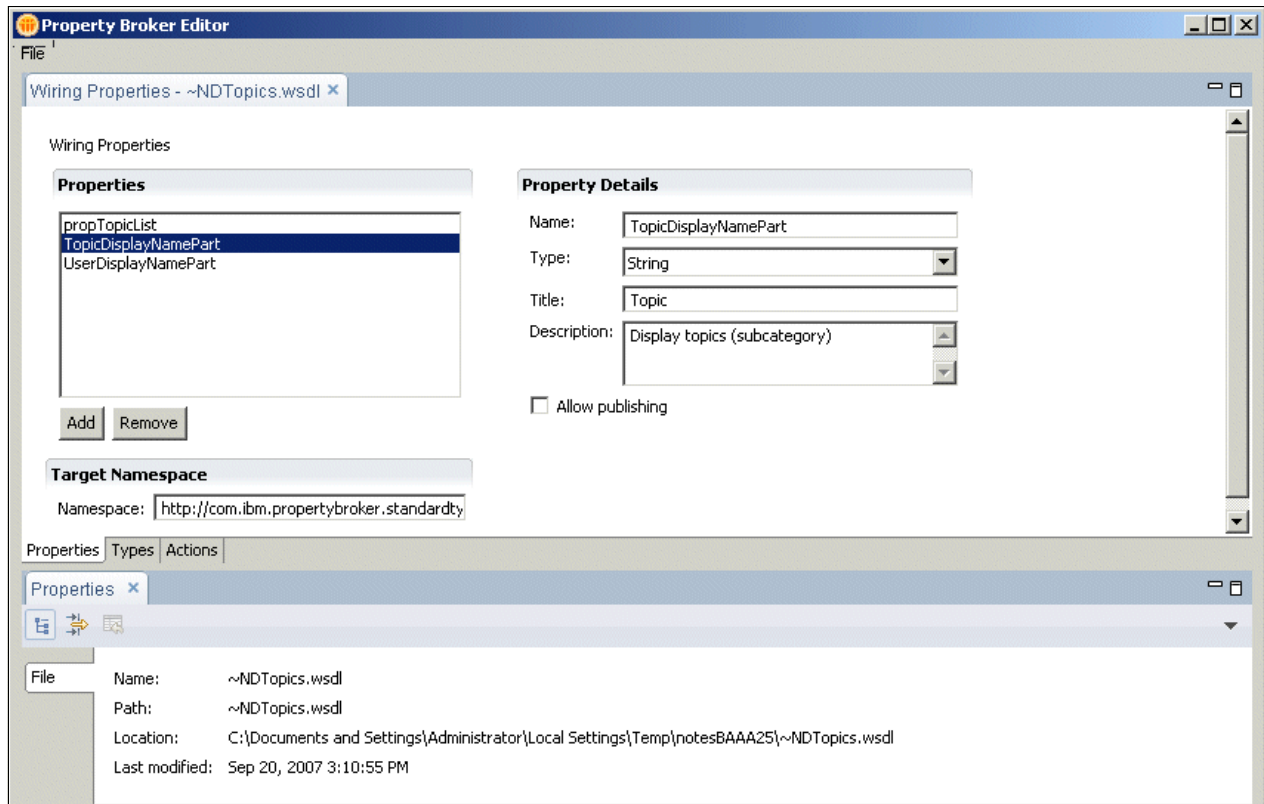


Figure 4-12 Defining properties in the Property Broker Editor

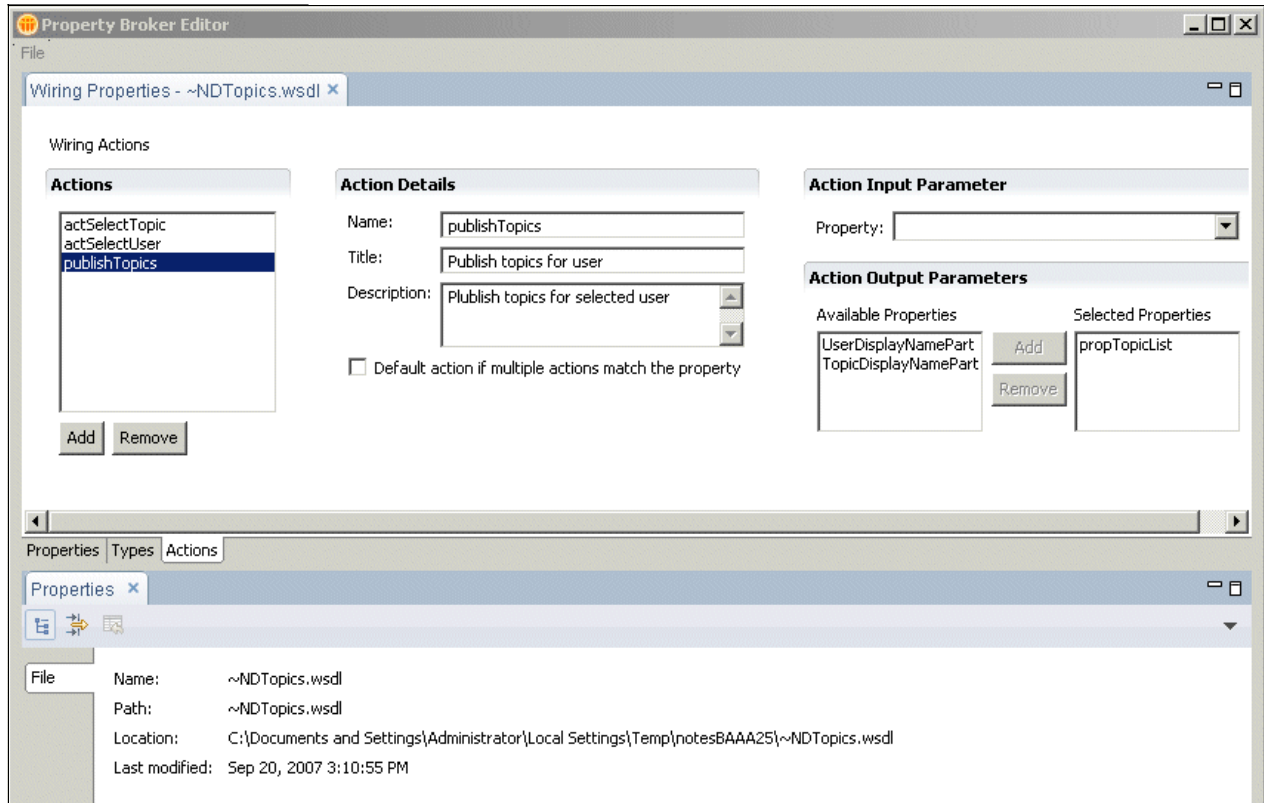


Figure 4-13 Defining actions in the Property Broker Editor

Modify NSF components

You can configure the properties you want to publish in a view column definition as shown in Figure 4-14 on page 143. If a value is defined in the property field Composite Settings section of a column then, whenever a user selects a row in the view, the value in this column is published as the selected property.

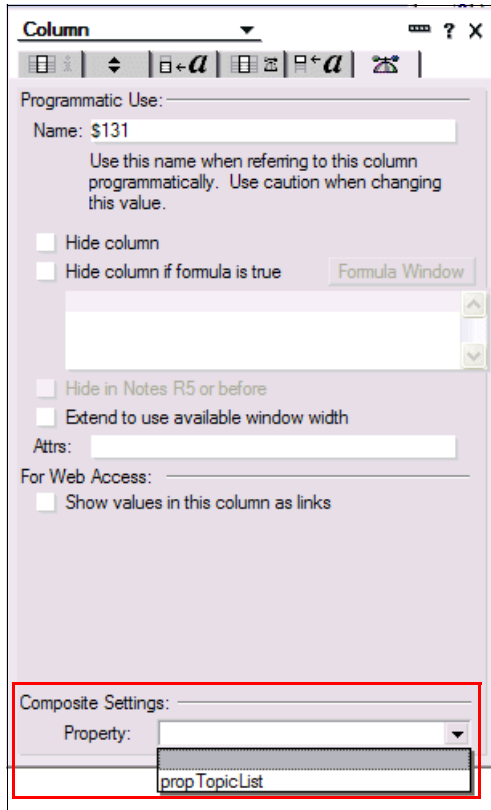


Figure 4-14 Configuring a property in a view column

If you want to publish a more complex property value than the current view column value, you can make use of the Onselect view event, as shown in Figure 4-15 on page 144. You can use the LotusScript APIs to programmatically provide the complex property to be published. Use LotusScript APIs with the new NotesProperty and NotesProperty broker classes, properties, and methods to publish complex properties from this view event and other NSF design elements.

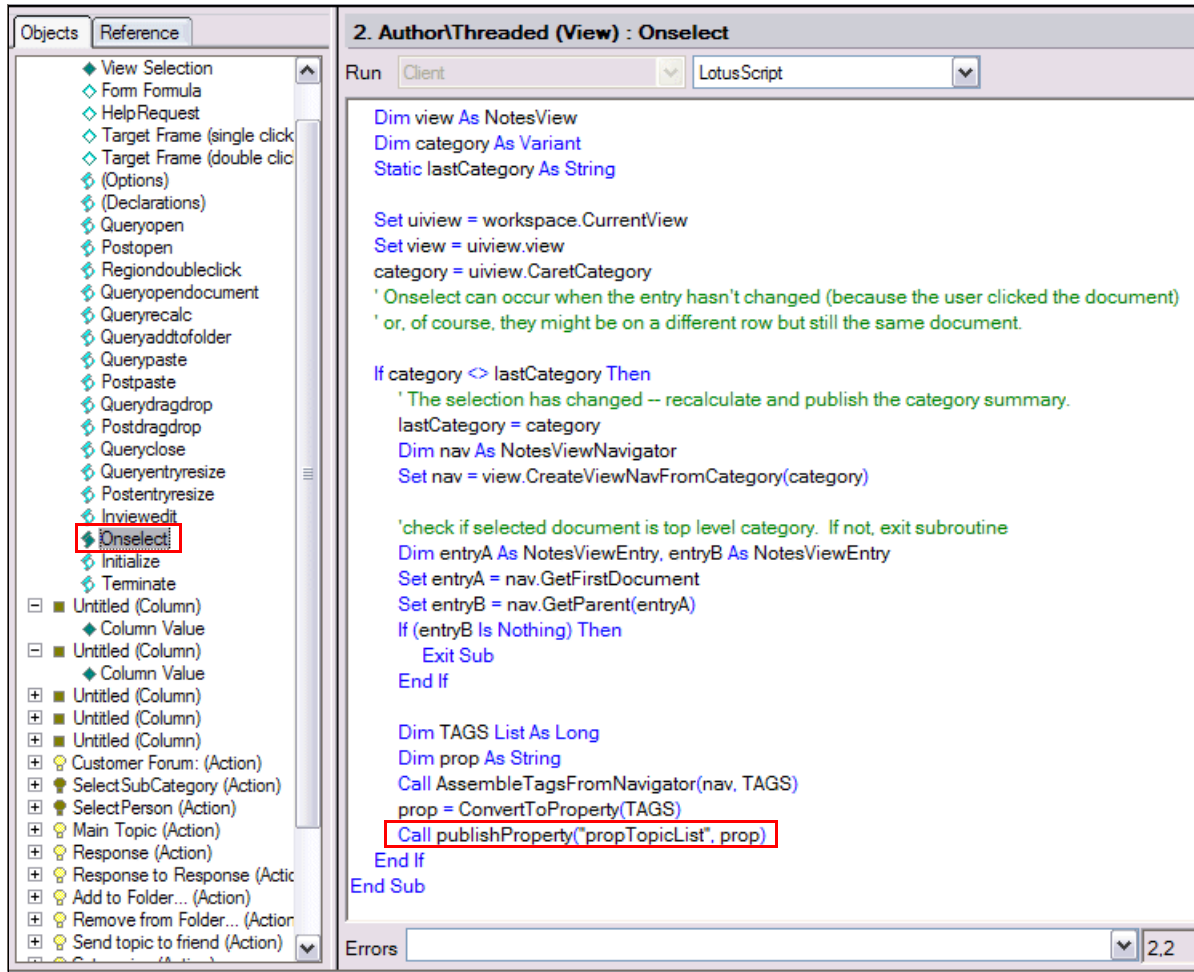


Figure 4-15 Onselect view event

You can also configure actions (code to be executed when wired to a published property) in your NSF components. In the example in Figure 4-16, the action code has been defined with LotusScript and associated with the action name (defined in the WSDL created earlier with the Property Broker Editor) in the properties box.

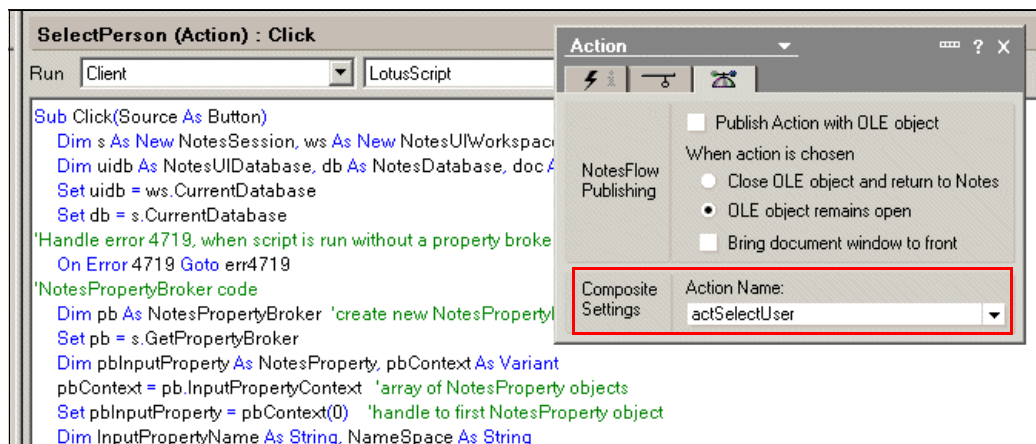


Figure 4-16 Defining an action

4.2.3 Assembling and wiring composite application

While application developers create the composite application components (as described in section 4.2.2, “Building composite application components” on page 140), the assembling and wiring of application components is potentially a task that an authorized business manager, allowing the task to be completed without requiring administrative or development assistance.

This enables business professionals to design their own applications to pull together the information they need. For example, if there are data types that are commonly used within an organization’s IT systems, for example, employee ID, project code, or customer account number, IT developers can build components that expose these elements in each IT system. This system stores information about these entities and allow the business manager to link these as appropriate.

Assembling a composite application includes the following steps:

1. Create or identify the Lotus Notes composite application container as described in “Create Lotus Notes composite application container” on page 145.
2. Add components to the composite application as described in “Add components to the composite application” on page 147.
3. Wire components together within the composite application as described in “Wire components together within the composite application” on page 149.

Create Lotus Notes composite application container

You must create an application on the Lotus Domino server or Lotus Notes client that will host the composite application using the “Blank Composite Application” template, as shown in Figure 4-17.

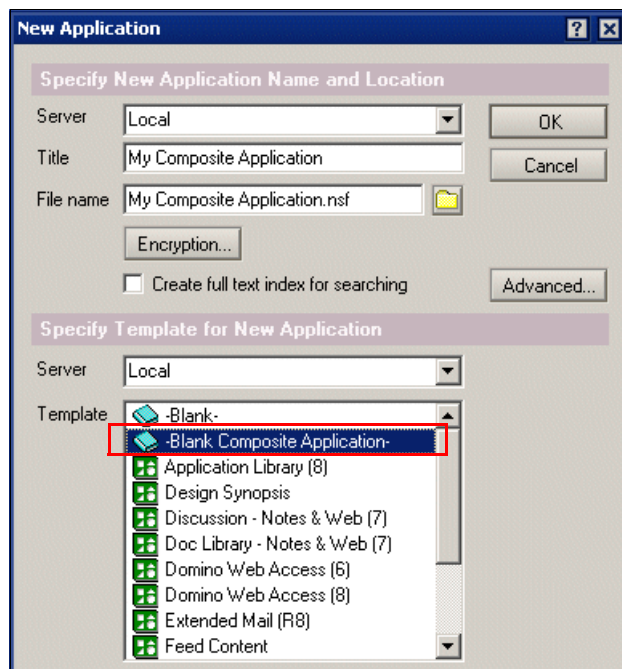


Figure 4-17 Creating new composite application

Note that you can configure an existing Lotus Notes application to launch as a composite application in the application properties, as shown in Figure 4-18 on page 146.

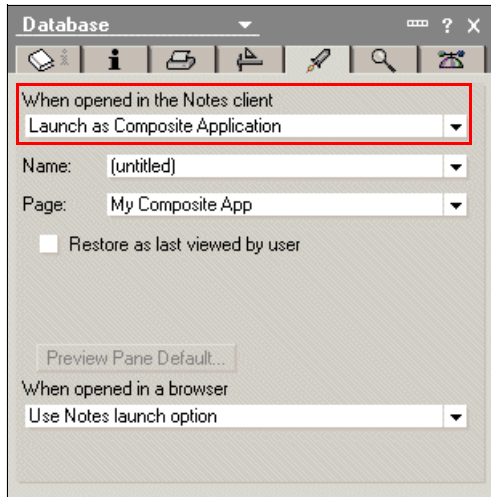


Figure 4-18 Composite application: Application properties

Note that it is also possible to launch your application as a composite application using a new Frameset property, as shown in Figure 4-19. This allows Lotus Notes 8 clients to open the application as a composite application while allowing Lotus Notes clients prior to version 8 to open the application as a traditional Lotus Notes application. This way, existing applications are seamlessly upgraded to composite applications without users having to take any action.

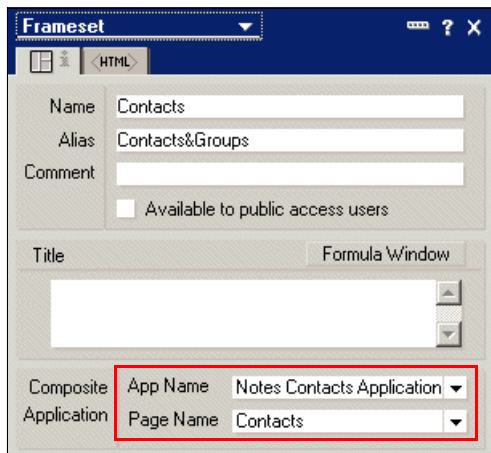


Figure 4-19 Frameset properties

Add components to the composite application

You open the composite application container as you would open any Lotus Notes application. The composite application container is initially empty, as shown in Figure 4-20. As indicated by the text on the page, select **Actions** → **Edit application** from the menu bar.

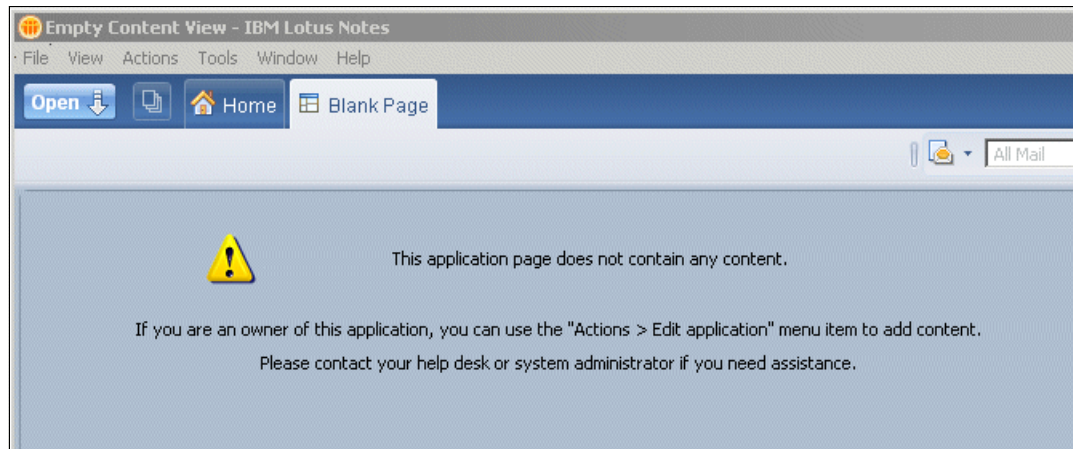


Figure 4-20 Empty composite application

You have a component palette on the right side of the window where you add the components you want to use in this application. If you are adding an NSF component, you can browse the applications and views to select the correct component, as shown in Figure 4-21.

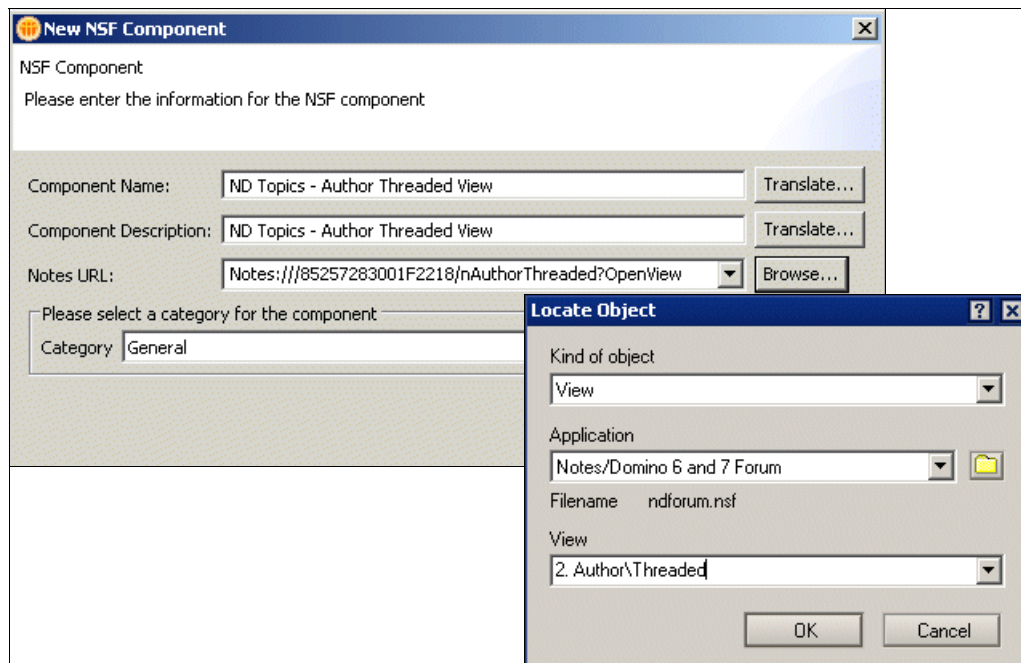


Figure 4-21 Adding an NSF component

If you are adding Eclipse-based components, you can browse an Eclipse update site or your local machine to locate the components as shown in Figure 4-22 on page 148.

A new template, Eclipse Update Site (8), is supplied with the Lotus Domino 8 server to support provisioning of Eclipse-based components. You can use NSFs based on this template locally or from a Domino 8 server. See "Using a Lotus Domino 8 server as a provisioning server" on page 97 for more information.

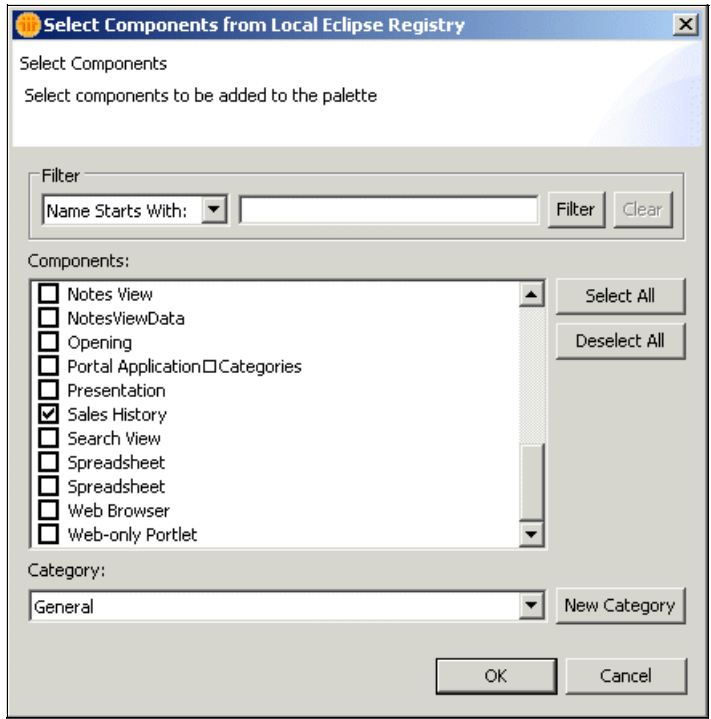


Figure 4-22 Adding an Eclipse-based component

When you have all the components in your palette, you can drag and drop them onto your central page, as shown in Figure 4-23, and resize them or move them around until you have the configuration that you want.

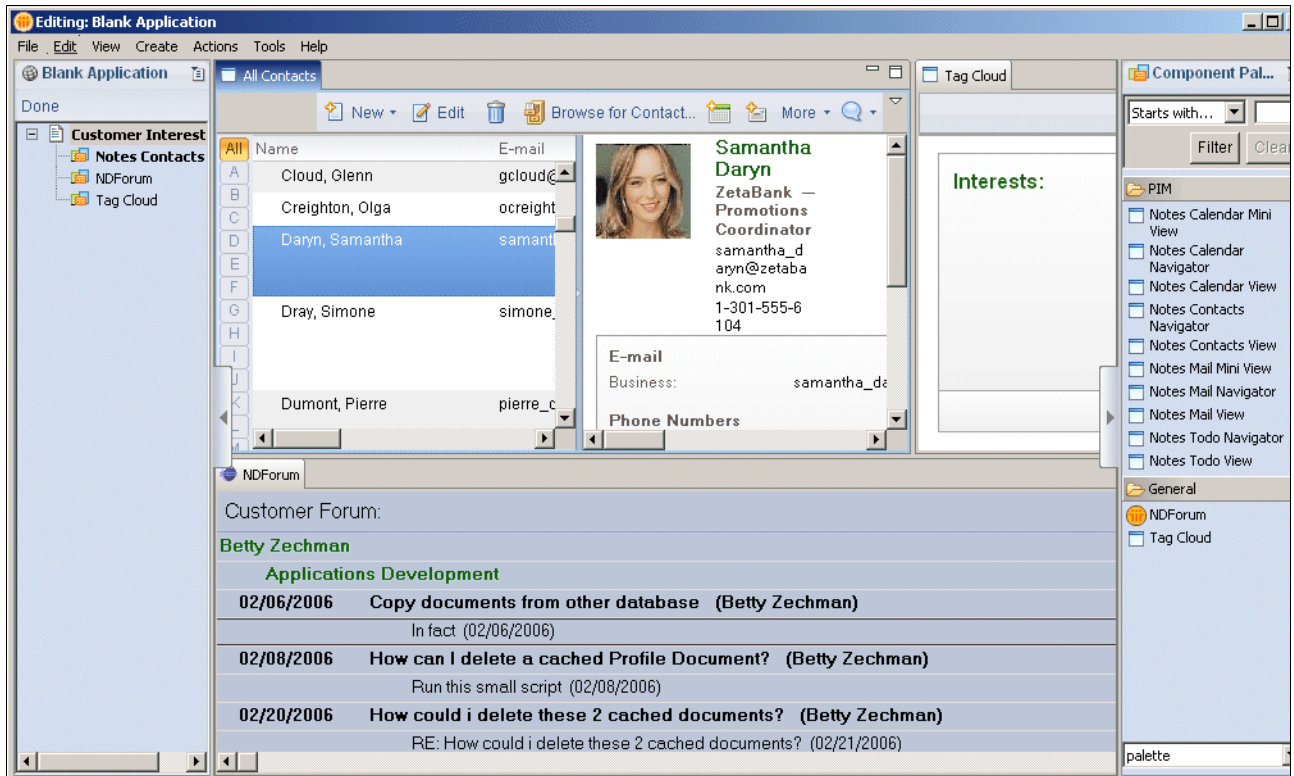


Figure 4-23 Placing components in composite application

Wire components together within the composite application

The final step in creating the composite application is to wire the properties and actions together. To do this, right-click one of the components in the left sidebar and select **Wiring**, as shown in Figure 4-24.

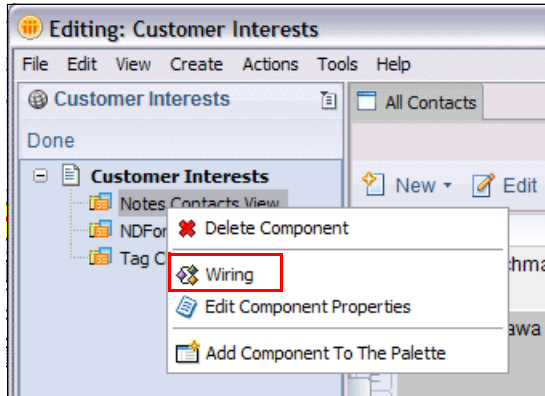


Figure 4-24 Wiring components

You are then presented with a graphical interface showing each of the components. The component listed as source displays its properties and the other components list their actions, as shown in Figure 4-25. You can change the source component within the wiring panel.

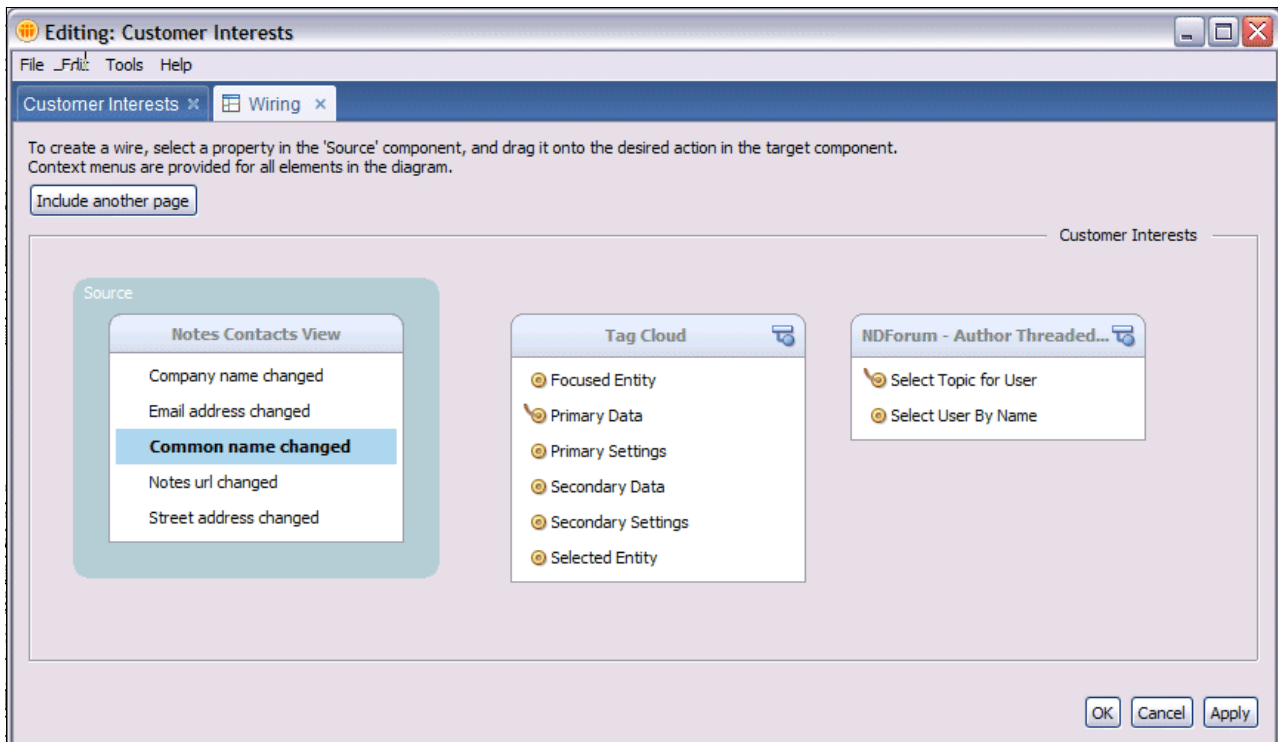


Figure 4-25 Wiring Interface

As you click the properties, the actions with matching data types are indicated by the orange circle beside them, showing the components that you can wire together. As you can see in Figure 4-25, all the actions have matching data types in this case. Those actions that have “wires” attached, as shown in Figure 4-26 on page 150, are entities that have already been wired.

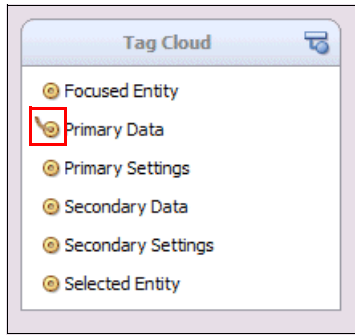


Figure 4-26 Wired property

To implement the wiring, simply click the property and drag it to the component with the corresponding action. A dotted line shows the wiring between the components, as shown in Figure 4-27. The wiring pane shows the properties from the source component at any time. You can right-click a component and select **Set as source**. You can then define other event or action relationships among the components, save the wiring, and save the application.

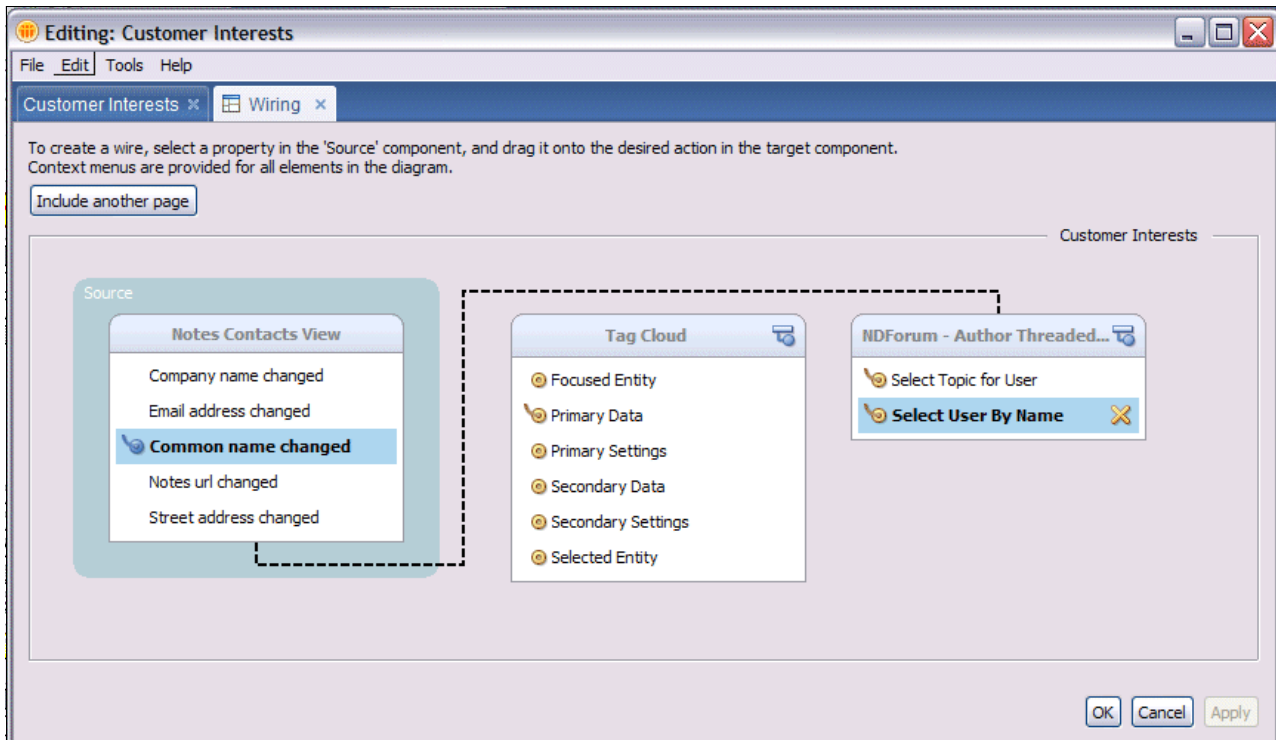


Figure 4-27 Wired components

The composite application is complete.

With no detailed knowledge of application development or programming languages, you can construct or customize an application to display the information you need to carry out your business functions.

4.2.4 Additional design element options for composite applications

There are additional properties for views, columns, actions and outlines that are only available for composite applications (and supported for Notes 8.0 only in the Mail, Calendar, and

Contacts applications). These properties are available in Domino Designer 8 through the addition of the following NOTES.INI parameter:

Designer_ShowPropForJavaViewsUI=1

Additional view properties

The following additional view properties are available for an Eclipse-based user interface, as shown in Figure 4-28.

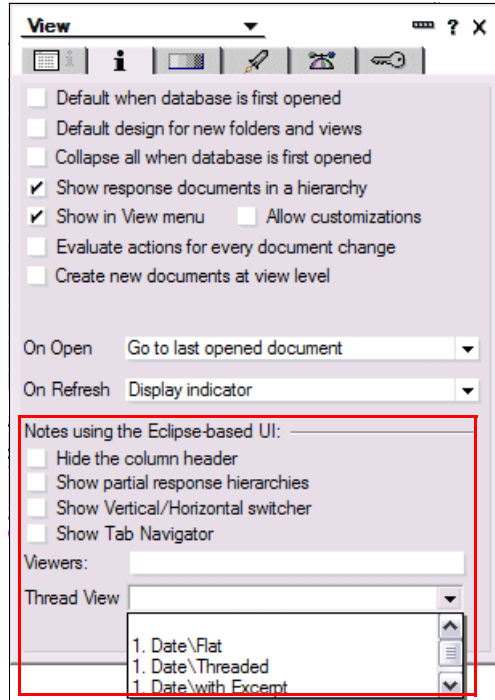


Figure 4-28 Advanced view options for Eclipse-based applications

Hide the column headers

To show only the data in view columns without the column headers, select this option. Selecting this option allows greater flexibility in visually grouping documents within a view.

Show partial response hierarchies

If this option is selected, missing roots of partial threads are created so that response trees are displayed for any message in the view. Otherwise, only completed threads are displayed.

Show vertical or horizontal switcher

You can place the preview pane in a horizontal layout orientation below the viewer, or in a vertical layout orientation beside the viewer. Select this option to allow a pair of icons in the action bar of the view or folder so the the user can switch their preview pane layout orientation between horizontal and vertical orientations.

Show Tab Navigator

The Tab Navigator is a set of button-like items that are used to control the set of documents being shown in the viewer. Select this option to display the Tab Navigator in viewers and make it clickable.

Viewers

This option controls the ability to switch between Table, Calendar, Tile, or third party viewers. If no viewer is specified, the style attribute of the Folder/View determines which viewer is used. If one viewer is specified, that viewer is used. If multiple viewers are specified, an action item is added to the user's action bar, allowing the user to change the viewer. A selected viewer persists for that folder or view.

Thread View option

To enable the inline expand thread feature for a folder or view, specify its name in the Thread View option. If a folder or view is specified in the Thread View option, an additional option of Allow conversation mode is available. If checked, the Allow conversation mode option adds a button to the user's action bar, allowing the user to switch between the message mode (showing all messages) and the conversation mode (showing only the most recent message in a thread, until the thread is expanded).

Additional column properties

The following additional column properties are available for an Eclipse-based user interface as shown in Figure 4-29.

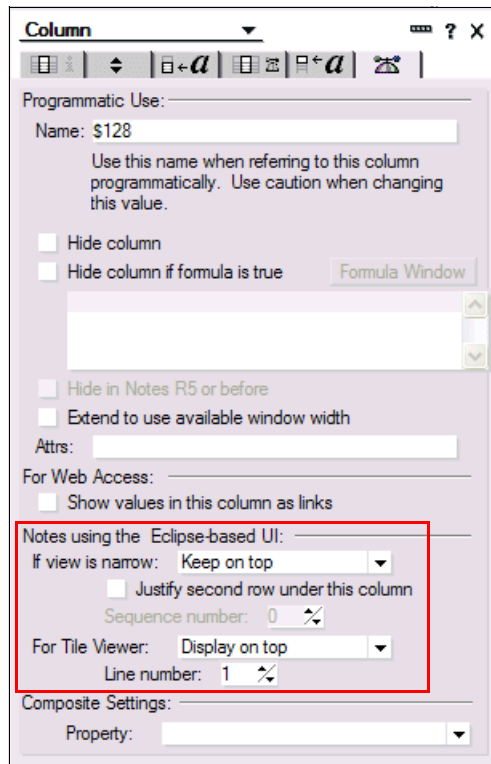


Figure 4-29 Advanced column options for Eclipse-based applications

Vertical layout options for columns

In Lotus Notes 8, you can display a view in a vertical (narrow) layout for composite applications. In a vertical layout, the columns are adjusted to fit within the layout without scrolling. You can display columns on two lines, with each column in the view designated as always being on the top row or potentially wrapped to the second row, or hidden in vertical layouts. A sequence number allows the designer to control the order in which columns are wrapped to the second row. You can indent the second row, by designating a column on the top row under which the second row is left justified.

Tiled layout options for columns

You can display a view in a tiled layout for composite applications. In a tiled layout, the information about each document that normally appears as a line in the view is displayed as an individual tile within the window space allocated for the view. For example, you can display a view containing rows of contact information as a series of business cards. The tile ordering is horizontal then vertical, and only scrolls vertically. The tiles are all the same size. Each tile contains a top, header section, and a bottom attributes section. You can see a working example of this in the Notes Contacts application, formerly known as the Personal Name and Address Book.

Additional shared action option

The following design option is available for specifying how action buttons behave when displayed in an Eclipse-based user interface, as shown in Figure 4-30



Figure 4-30 Advanced shared action option for Eclipse-based applications

Display as split button

Check “Display as a split button” to display a view or folder action button that supports advanced user interaction in a Java view. The left side of the action button displays the icon and button label, and executes the first subaction if clicked. The right side of the action button displays a drop-down arrow and drop-down menu of all subactions when clicked.

Additional outline option

The following additional outline property is available for an Eclipse-based user interface, as shown in Figure 4-31.

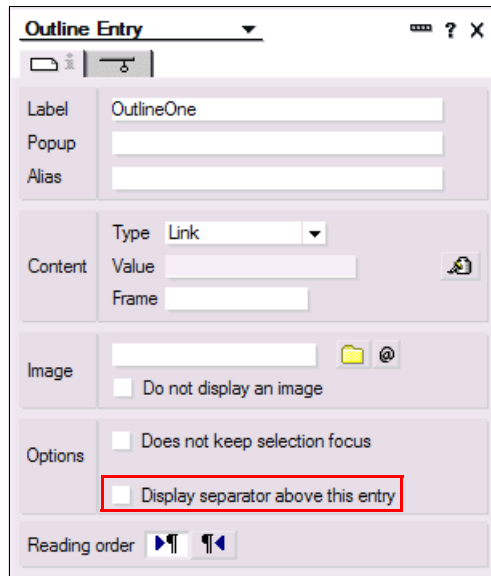


Figure 4-31 Advanced outline option for Eclipse-based applications

Display separator above this entry

In composite applications, a horizontal separator line appears between this outline entry and the one above it.

4.3 Extending the Lotus Notes 8 Client

Lotus Notes 8 is built on top of Lotus Expeditor, which is built on the Eclipse Rich Client Platform (RCP). You can extend the Lotus Notes 8 client by creating Eclipse-based plug-ins and deploying them using the provisioning capability inherited from Lotus Expeditor. Provisioning is done through a Lotus Domino update site as demonstrated in “Using a Lotus Domino 8 server as a provisioning server” on page 97.

A plug-in is a component that provides a piece of functionality. Any given plug-in can define other plug-ins upon which it depends, thus permitting granular componentization and code reuse. A plug-in can also contribute functionality to other plug-ins through extension points.

An extension point allows a component to define a contract for other plug-ins to contribute functionality. The contributing plug-in fulfills this contract by defining specific values through XML. These values are key data in the form of strings or the names of Java class files that implement key interfaces. For example, the Eclipse platform defines an extension point to add a menu item to any menu. The contributing plug-in provides the ID of the top-level menu, the name shown to the user, and the name of the Java class that defines the action to execute when the user clicks the item.

The following URL describes the extension points used to contribute to the sidebar and the toolbar and how to add plug-ins to these areas of the Lotus Notes 8 client:

<http://www.ibm.com/developerworks/lotus/library/notes8-sidebar>

4.4 Web service consumer applications

Web services can support distributed computing across the Internet. They provide a platform-neutral standards-based method of communicating between diverse software applications running on different platforms. A Web service consumer connects to a Web service provider, invokes the functionality that it provides, and receives a response that might contain data or a status.

Lotus Domino 7 introduced native support for hosting Web services. Using the Lotus Domino Designer 7 Web service design element, you can write a Web service (contained within an NSF) and host it on your Lotus Domino 7 server so that you can define it once and then call from other computers. Lotus Domino 8 provides incremental enhancements to Web service hosting.

Lotus Notes and Domino 8 add Web services consumer support, allowing you to call Web services hosted elsewhere. A Web services consumer does not use a Web service design element, because these are used only for publishing Web services. Instead, a Web services consumer uses a special kind of script library (either LotusScript or Java). To call the Web service, an agent or other code must “use” that script library.

By defining a Web services consumer, application developers can use and reuse common Web service-based components in their applications. This helps speed the time to develop applications and eliminates duplication of code that provides identical functionality.

The following sections give an overview of what is involved in creating a Web services consumer using Lotus Domino Designer 8.

4.4.1 Creating a Web service enabled script library

Lotus Notes and Domino can behave as Web services consumers by procedurally invoking code contained within Web service-enabled script libraries in an NSF. To create the appropriate script library, use the Web Services Description Language (WSDL) document from the Web service provider you want to call. This WSDL document is the public interface of the Web service provider. It is an XML-formatted document, which describes various attributes of the Web service provider, the endpoint, and the methods that the Web service consumer can use.

Using Lotus Domino Designer 8, you import this WSDL into a LotusScript or Java library, as shown in Figure 4-32.

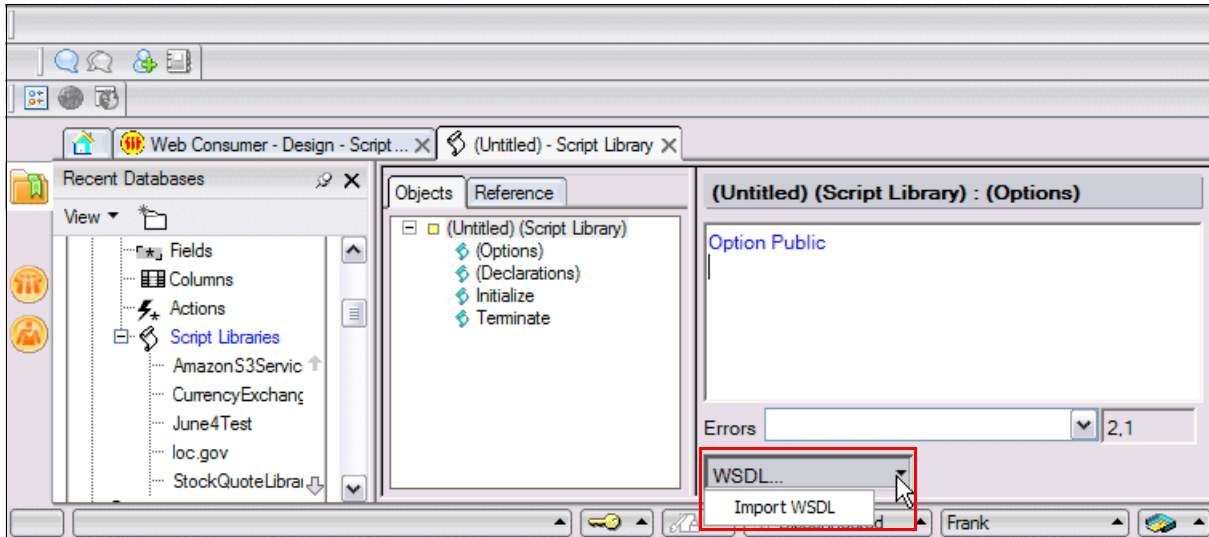


Figure 4-32 Import WSDL into script library

Lotus Domino Designer 8 reads the WSDL file, converts it to LotusScript, and shows you the methods you can use as a Web service consumer. If you create a Java script library, the WSDL content is converted to Java.

Note that as a general rule for script libraries, you get the best performance by using fewer, larger script libraries. If you are calling multiple Web services in your application, we recommend to combine these smaller script libraries into a single larger library, even if it means loading some code that will not be called.

In the scenario shown in Figure 4-33 on page 157, the Web service provider has a method to perform currency conversions given a source currency and a target currency. Note that the script library contains only back-end classes; Web service messages have no user interface implementation. Therefore, you can use the script library with the Lotus Notes 8 client and the Lotus Domino 8 server. In either case, a direct connection to the endpoint is made. Note also that the Web service endpoint is part of the WSDL that you imported.

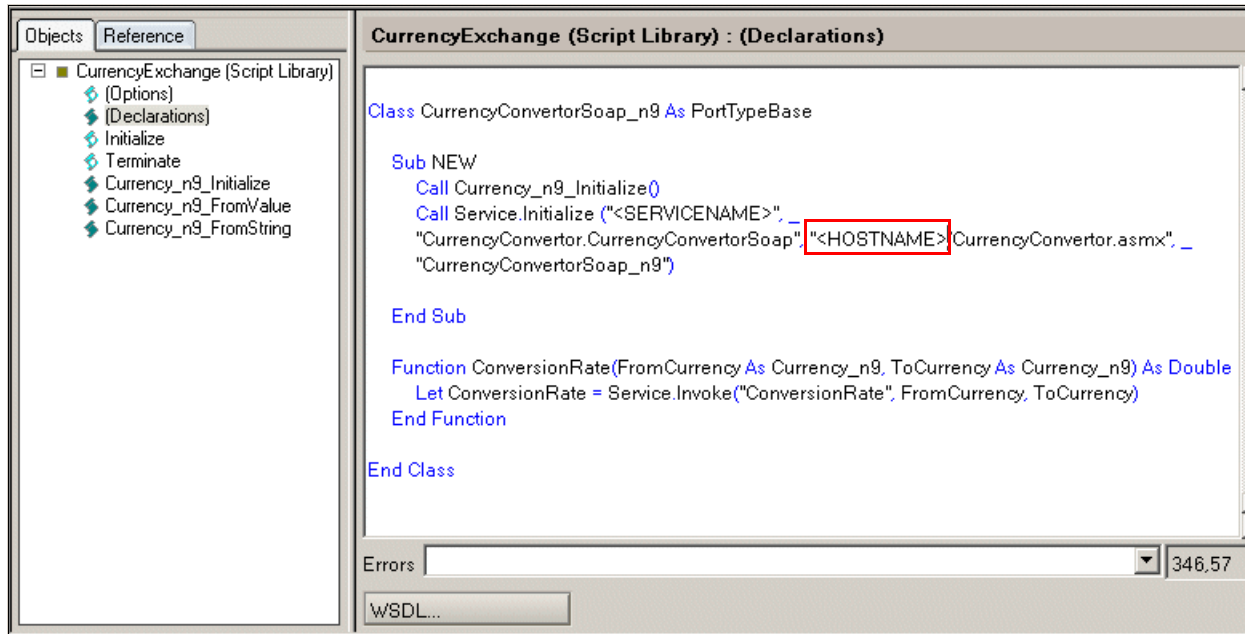


Figure 4-33 Imported WSDL example

4.4.2 Incorporating a script library in the application

After the WSDL has been imported into a script library, you can use it in a Lotus Notes application, as shown in Figure 4-34 on page 158.

When you use a LotusScript script library, the script in the (Options), (Declarations), Initialize, and Terminate events of the library become available as though they were in the current object's corresponding scripts.

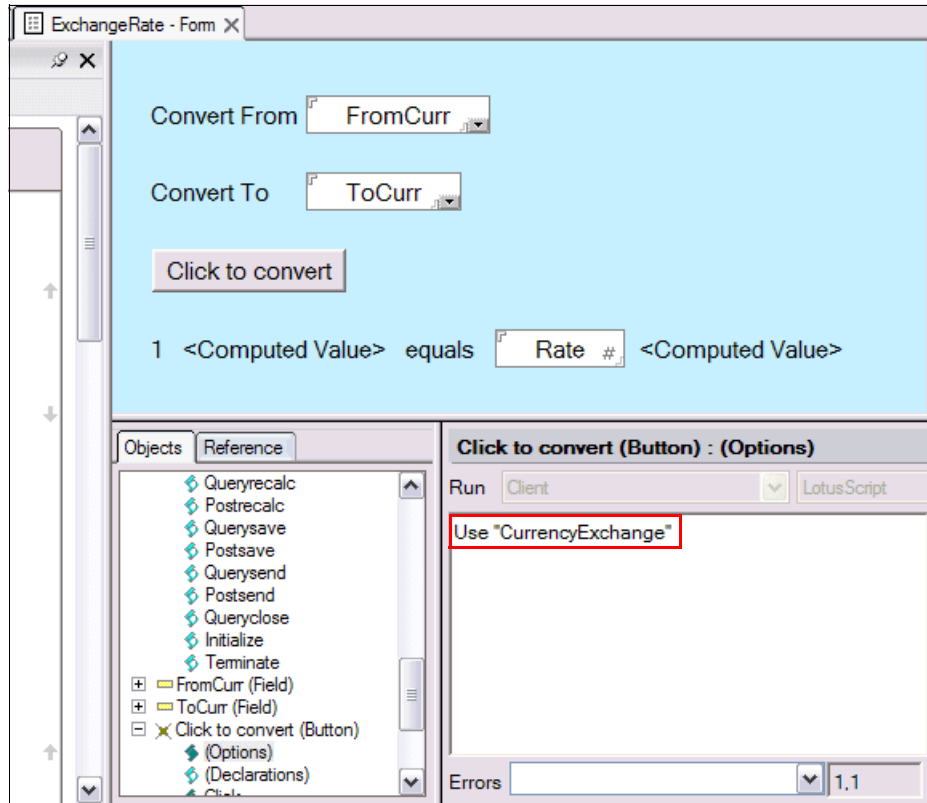


Figure 4-34 Configuring use of a script library

4.4.3 Using the script library functions in the application

After the script library has been linked to the application, you can use the functions described in the imported WSDL in your application. For example, as shown in Figure 4-35 on page 159, the function FTOC that was imported with the WSDL definition in Figure 4-33 on page 157 is being used in the LotusScript. This LotusScript defines the action to perform when you click the button.

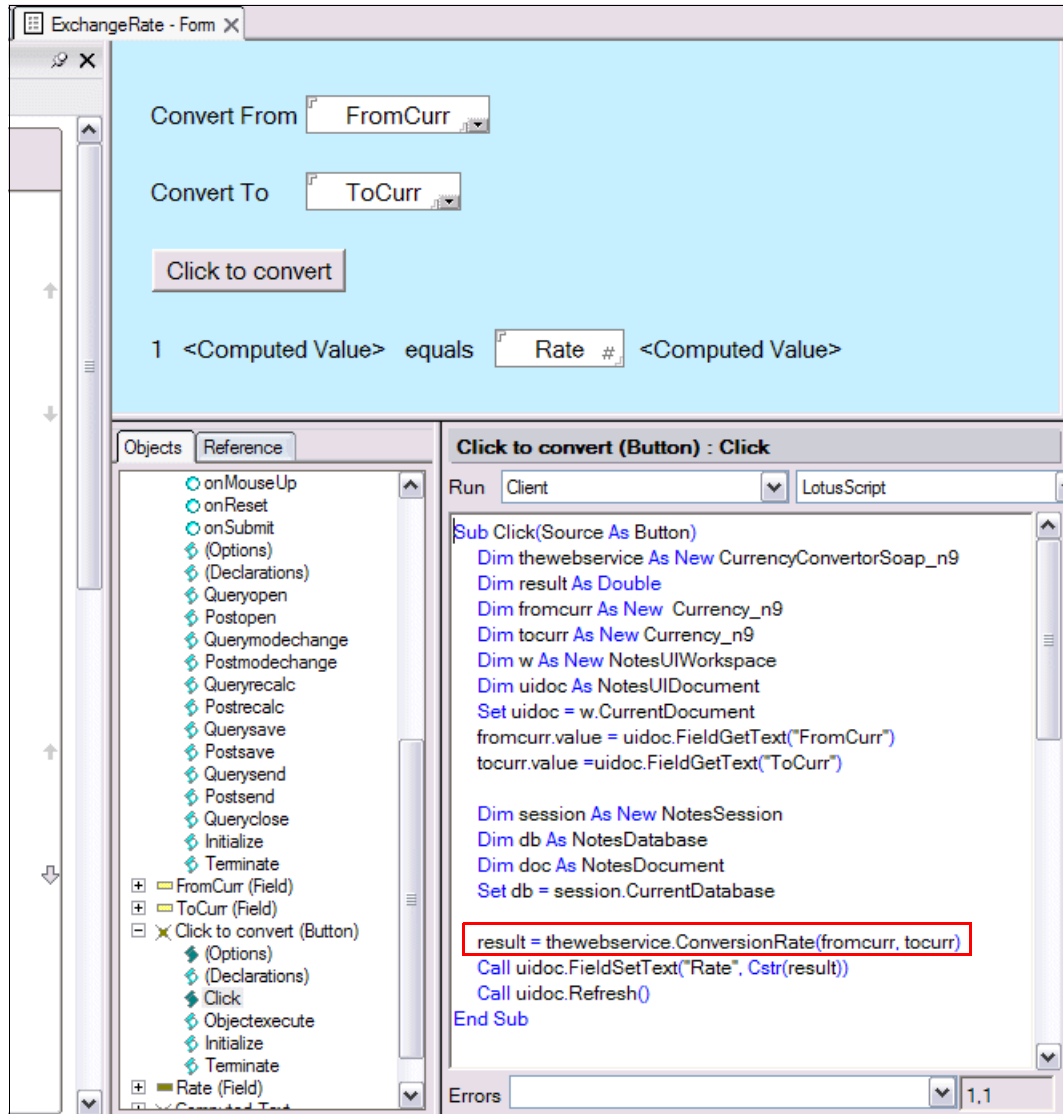


Figure 4-35 Using a Web service function within the application

4.4.4 Running the application

When you run the application, the LotusScript code calls the specified method in the script library, passing it the values from the editable fields.

The Web service consumer sends a request to the Web service provider. The request is a SOAP message transported through HTTP and includes the source and target currency values from the editable fields. The Web service provider performs its operations and provides the response to the Web service consumer as a SOAP message that contains the return value of the operation. This is the return value of the method in the script library. The LotusScript code places the return value into the computed field with the result, as shown in Figure 4-36 on page 160.

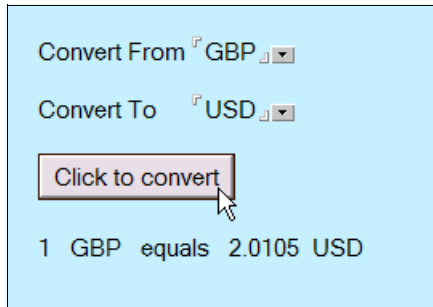


Figure 4-36 User input to application

4.5 Enhancements for Web service provider applications

Lotus Domino 7 introduced native support for hosting Web services and the following enhancements have been introduced in Lotus Notes and Domino 8.

4.5.1 Changes to default Web Service design properties

Two changes have been made to the default Web Service properties in Lotus Notes and Domino 8 as shown in Figure 4-37. The default SOAP message format has changed to Document or Literal as this is the predominant message format over SOAP Encoded.

Messages contain only your data and not the operation names so the Include operation name in SOAP action is now checked by default. This option provides necessary hints to ensure the correct service method is called.

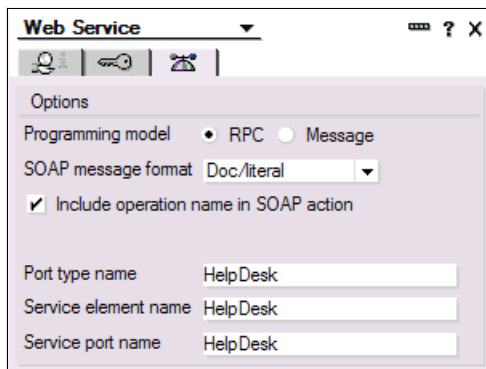


Figure 4-37 Web service properties - new default options

4.5.2 Web service preview

The Lotus Domino Designer 8 allows you to preview Web services so you can preview standard Lotus Notes forms and views.

First, a simple form is presented, which contains a link to the WSDL document for the Web service and a list of the defined functions, as shown in Figure 4-38 on page 161. In addition, the Web server is started on your workstation in preview mode and handles SOAP requests sent to it from any other program on the same machine. Therefore, you can use development tools to develop the client-side of the Web service without having to host the Web service on a Lotus Domino server.

- HelpDesk(*wSDL*)
 - Create_Ticket
 - Update_Ticket
 - Find_Tickets
 - Get_Ticket
 - Find_Persons
 - Get_Person
 - Translate

Figure 4-38 Web service preview

4.5.3 Warn if WSDL interface is modified

The “Warn if the WSDL interface is modified” option is automatically selected (Figure 4-39). This alerts programmers (on design element save) to change the public interface that Web service consumers might already be using.

The screenshot shows a dialog box titled "Web Service" with a dropdown menu and standard window controls. Below the title bar are icons for search, refresh, and help. The main area contains several fields and options:

- Name:** Helpdesk.LotusScript
- Alias:** (empty field)
- Comment:** (empty field)
- Options:** A checked checkbox labeled "Warn if the WSDL interface is modified".
- Port Type:** HelpDesk_n0
- class:** (empty field)

Figure 4-39 Warn if the WSDL interface is modified

4.6 Lotus Domino and DB2 integration

Lotus Domino 7 introduced the ability to use IBM DB2 software as an alternative to the Lotus Notes storage facility (NSF) for storing Lotus Domino data on a per-application basis. This feature, called the Lotus Domino and DB2 feature, lets you use both DB2 and Lotus Domino applications, accessing and viewing data stored in either format.

If you opt to use the Lotus Domino and DB2 feature, you can store the internal representation of your Lotus Domino messaging and collaboration data in an enterprise relational database, while maintaining full compatibility with NSF functionalities. You can consolidate your Lotus Domino data along with other enterprise data in a common DB2 store and then integrate it with other applications, including J2EE™ applications. Your DB2 users can take advantage of Lotus Domino replication and security features.

DB2 software integration capabilities enable developers to build applications that blend collaborative services with relational data stored in DB2 databases. Lotus Domino Designer 7 introduced two new design elements to support the Lotus Domino and DB2 feature:

- ▶ **DB2 access view (DAV):** This exposes Lotus Domino data, as shown in Figure 4-40 on page 162, so that you can work with that data from a DB2 interface using SQL, as shown in Figure 4-41 on page 162, while adhering to all Lotus Domino data security mechanisms.

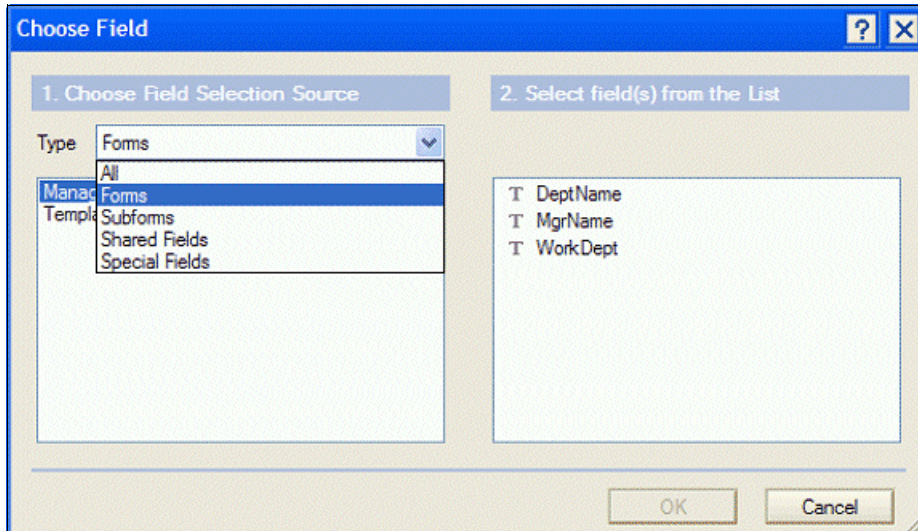


Figure 4-40 Defining a DB2 access view

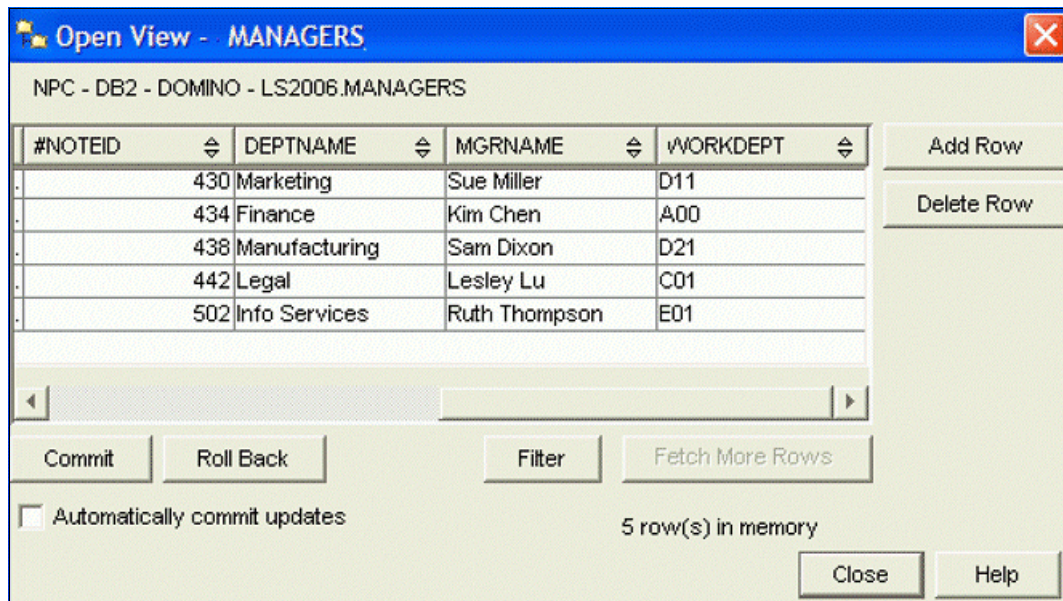


Figure 4-41 Lotus Domino data exposed in DB2 view

- ▶ Query view: This view uses an SQL statement to define its selection criteria, as shown in Figure 4-42 on page 163. The view can include data from DB2 software-enabled Lotus Notes applications or DB2 databases.

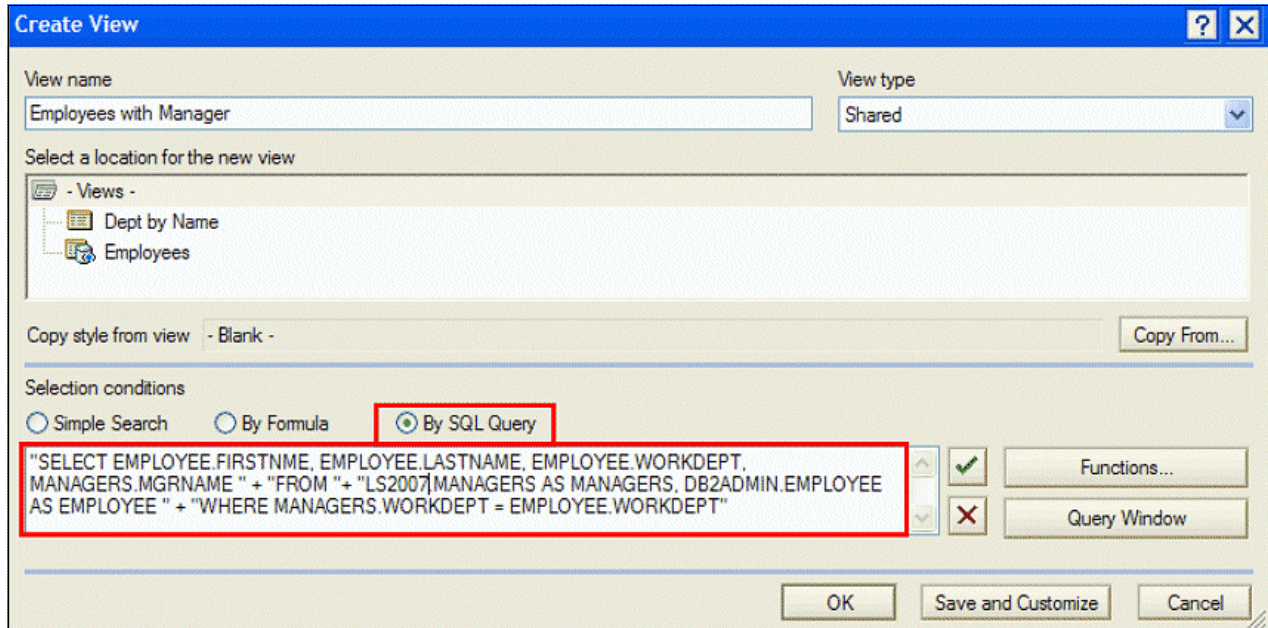


Figure 4-42 Query view

For more information about the features introduced in Lotus Domino 7, see the following Web site at:

<http://www.ibm.com/developerworks/lotus/library/domino7-db2/>

4.6.1 Full support for the DB2 data store

In Lotus Domino 7, the Lotus Domino and DB2 feature was a “Limited Availability” feature. This meant that, although the features were available for companies to test, there was no support for production use through the standard IBM Lotus support channels.

With Lotus Domino 8, these features are now fully supported through the regular IBM Lotus support mechanisms.

4.6.2 Supported platforms

The limited availability program for the Lotus Domino and DB2 feature of Lotus Domino 7 applied to certain Microsoft Windows and IBM AIX 5L platforms. With Lotus Domino 8, the Lotus Domino and DB2 feature is supported for select Microsoft Windows, IBM AIX 5L, and Linux operating systems.

4.6.3 SQL updates, inserts, deletes are transactional

With the correct access rights, you can manipulate Lotus Domino data from DB2 by running SQL queries against a DB2 access view.

In Lotus Domino 7, performing bulk transactions on DB2 access views from DB2 committed the changes one row at a time.

This meant that there was a possibility of leaving things in an inconsistent state if the operation failed to complete. In Lotus Domino 8, the operation is committed as a single

transaction. If the operation fails after processing only some of the rows, the operation is rolled back, guaranteeing transactionally consistent results.

4.6.4 New columns for DB2 access views

With Lotus Domino 8, there are additional columns that you can include in a DB2 access view (DAV):

- ▶ #ADDEDTOFILE
- ▶ #CREATED
- ▶ #DATABASE
- ▶ #DBPATH
- ▶ #MODIFIED
- ▶ #OID
- ▶ #PUBLICACCESS
- ▶ #REF
- ▶ #REPLICAID
- ▶ #RESPINFO
- ▶ #SEQUENCENUMBER
- ▶ #SERVER
- ▶ #UNID

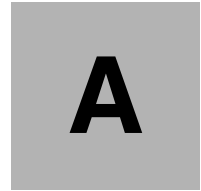
An SQL query view can query these fields from a DAV.

#SERVER, #DBPATH, #DATABASE, and #REPLICAID columns enable application developers to create functions that use information about the location of the Lotus Domino application storing the DAV.

The #REF and #RESPINFO columns enable application developers to build query views with response hierarchies.

4.6.5 Improved user mapping

The implementation of the default DB2 user, as described in section 3.8.1, “Lotus Domino and DB2” on page 121, eliminates the need for every user who accesses a query view, that is based on a DAV, to have a user mapping defined in their Lotus Domino directory person document. This is a performance enhancement because there is no need to perform an additional user name lookup to validate access to the data.



Lotus Notes 8 client feature requirements

This appendix contains a matrix describing each of the new Lotus Notes 8 features and whether each requires the Lotus Notes 8 Eclipse-based interface (as opposed to the Lotus Notes 8 “basic configuration”), a Lotus Notes 8 mail template (MAIL8.NTF, DWA8.NTF, OR MAIL8EX.NTF), or a Lotus Domino 8 server.

The feature requirements assume that the Contacts database (NAMES.NSF) and the Bookmark database (BOOKMARK.NSF) use the templates supplied with the Lotus Notes 8 client.

For the latest comparison on the two configurations of the Lotus Notes 8 client, see the following Lotus Software Knowledge Base documents at:

<http://www.ibm.com/support/docview.wss?rs=203&uid=swg21264877>

<http://www.ibm.com/support/docview.wss?rs=203&uid=swg21256781>

Table A-1 Lotus Notes 8 feature requirements

Feature	Lotus Notes 8 Eclipse-based interface	Lotus Notes 8 mail template	Lotus Domino 8 server
Eclipse-based interface		Yes Note that although existing Lotus Notes applications will run in Lotus Notes 8, the mail and calendar links on the Open bar require a Lotus Notes 8 mail template.	No
Home page	No However, links to Lotus Symphony editors will not work.	No	No

Feature	Lotus Notes 8 Eclipse-based interface	Lotus Notes 8 mail template	Lotus Domino 8 server
Open list	Yes	N/A	No
Toolbar changes	Yes	N/A	No
Sidebar plug-ins	Yes	N/A	No
Group document tabs/ Open document in new window	Yes	N/A	No
Thumbnails	Yes	N/A	No
Unified preferences	Yes	N/A	No
Advanced menus	No	N/A	No
Make available offline	No	N/A	No
Multilevel undo	No	No	No
Inline spell checking	No	No	No
Document selection	Yes	N/A	No
Recent collaborations	Yes	N/A	No
Theme and interface changes	Yes	N/A	No
Search center	Yes	N/A	No
Help	Yes	N/A	No
IBM Support Assistant	Yes	N/A	No
Mail			
Action bar	Some of the action bar changes are present in the Basic Configuration.	Yes	No
Mail header	No	Yes	No
Sort recipient list	No	Yes	No
Mail addressing	Yes	Yes	No
Vertical preview	Yes	Yes	No
Resilient mail threads	No	No Mail threads in the mail header, as in Lotus Notes 7 mail templates, are also resilient.	Yes
Conversations view	Yes	Yes	No
Mail recall	No	Yes	Yes

Feature	Lotus Notes 8 Eclipse-based interface	Lotus Notes 8 mail template	Lotus Domino 8 server
Out of Office improvements	No	Yes Note that server-side improvements for Out of Office do not require a mail 8 template.	Yes
Calendar			
Action bars	Some of the action bar changes are present in the Basic Configuration.	Yes	No
View navigation	Yes	Yes	No
Display of all day events over whole day	Yes	Yes	Yes
Display of unprocessed calendar entries	No	Yes	Yes
Display of canceled calendar entries	No	Yes	Yes
Check schedule when creating meeting invite	No	Yes	No
Locate free time for subset of invitees	No	Yes	No
Add personal notes to a meeting invitation	No	Yes	No
Contacts			
Changes to Contact form	No	N/A	No
Business card view	Yes	N/A	No
Recent Contacts	The Recent Contacts view is not available in the Lotus Notes Basic Configuration, but the storing of recent contacts does take place and these are available for use in mail addressing. You can also synchronize recent contact information through the replicator.	N/A	No
Integrated instant messaging	In the Lotus Notes Basic Configuration, the integrated messaging functionality that was available in Lotus Notes 6.5/7 is available, but not the instant messaging functionality based on Lotus Sametime Connect 7.5.	N/A	No
Lotus Symphony editors	Yes	N/A	No

Feature	Lotus Notes 8 Eclipse-based interface	Lotus Notes 8 mail template	Lotus Domino 8 server
Composite applications	Yes	N/A	Yes If composite applications are to be hosted on a Lotus Domino server.



Lotus Domino 8 server feature requirements

This appendix contains a matrix detailing each of the new Lotus Domino 8 features and whether each requires the Lotus Notes 8 client, a Lotus Notes 8 mail template (mail8.ntf, dwa8.ntf or mail8ex.ntf), and any limitations associated with an environment that contains a mix of Lotus Domino 8 servers and pre-Lotus Domino 8 servers.

Table B-1 Lotus Domino 8 feature requirements

	Lotus Notes 8 client required	Lotus Notes 8 mail template required	Limitations in an environment containing pre-version 8 Lotus Domino servers
Messaging			
Mail recall	Yes	Yes The recall option only appears in the Lotus Notes 8 mail templates.	Sender and recipient require mail files hosted on Lotus Domino 8 server, but any intermediate servers through which mail passes do not have to be Lotus Domino 8 servers.
Out of Office service	Yes	Yes	Cluster hosting mail file must consist of only Lotus Domino 8 servers or Out of Office must be configured to run as an agent.
Resilient mail threads and support for Internet mails in threads	Will also work for mail headers for Lotus Notes 7 clients with mail files on Lotus Domino 8 server.	No Conversations view will only be available with the mail8 template.	Server hosting mail file must be Lotus Domino 8 server, but other servers routing mail can be pre-version 8 Lotus Domino.

	Lotus Notes 8 client required	Lotus Notes 8 mail template required	Limitations in an environment containing pre-version 8 Lotus Domino servers
Inbox cleanup	No	No	Server hosting mail file must be Lotus Domino 8 server.
Reverse path setting for forwarded messages	No	No	Server hosting mail file must be Lotus Domino 8 server.
Error limit before connection is terminated	No	No	Lotus Domino 8 server only.
Reject ambiguous names or Deny mail to groups	No	No	Lotus Domino 8 server only.
Transfer and delivery delay reports	No	No	Lotus Domino 8 server only.
Lotus Domino Web Access improvements	No	Requires the dwa8 mail template.	Server hosting mail file must be Lotus Domino 8 server.
Improved efficiency and performance			
Design note compression	N/A Only applies to Lotus Domino servers.	No	Only for applications hosted on Domino 8 servers. Also requires new Lotus Domino 8 ODS.
Defer index until first use	N/A Only applies to Lotus Domino servers.	No	Only for applications hosted on Domino 8 servers.
Streaming cluster replication	No	No	All servers in cluster must be Lotus Domino 8.
Auxiliary port for cluster replication	No	No	Lotus Domino 8 server only.
Post admin request into target administration database	No	No	Source server must be Lotus Domino 8.
User rename improvements	No	No	Will only work on Lotus Domino 8 servers with new ODS; pre-version 8 Lotus Domino servers will use original method.
Critical request scheduling: change scheduled request	No	No	Will only work on Lotus Domino 8 servers.
Dedicated threads for immediate and interval requests	No	No	Will only work on Lotus Domino 8 servers.
Prevent simple search	No	No	Will only work on Lotus Domino 8 servers.

	Lotus Notes 8 client required	Lotus Notes 8 mail template required	Limitations in an environment containing pre-version 8 Lotus Domino servers
Scheduled agent redesign does not require re-enabling of agent	No	No	Will only work on Lotus Domino 8 servers.
Lotus Notes client administration			
Server-managed provisioning	Smart Upgrade will work for Lotus Notes 6 and 7 clients. Plug-in provisioning will only work for Lotus Notes 8 clients.	No	Will only work on Lotus Domino 8 servers.
Policies: "How to apply"	No	No	Will work for user home servers that are pre-version 8 Lotus Domino as long as Lotus Domino directory template is based on Lotus Domino 8 directory template.
Policies: Activities setting	Yes Pre-version 8 Lotus Notes clients cannot make use of Activities plug-in.	No	Will work for user home servers that are pre-version 8 Lotus Domino as long as Lotus Domino directory template is based on Lotus Domino 8 directory template.
Policies: Productivity tools	Yes Pre-version 8 Lotus Notes clients cannot make use of Productivity tools.	No	Will work for user home servers that are pre-version 8 Lotus Domino as long as Lotus Domino directory template is based on Lotus Domino 8 directory template.
Policies: Security policies for DWA users	No	Yes	Will only work on Lotus Domino 8 servers.
Policies: Managing Administration ECLs	No	No	Will work for user home servers that are pre-version 8 Lotus Domino as long as Lotus Domino directory template is based on Lotus Domino 8 directory template.
Database redirect	Yes	No	Server from which redirection was created must be a Lotus Domino 8 server.

	Lotus Notes 8 client required	Lotus Notes 8 mail template required	Limitations in an environment containing pre-version 8 Lotus Domino servers
Lotus Domino server administration			
DDM: LDAP search response probe	No	No	DDM database design must be version 8 and probe must be configured to run from a Lotus Domino 8 server.
DDM: Automatic report closing	No	No	DDM database design must be version 8 and DDM collection server must be Lotus Domino 8.
DDM: Common Actions button	No	No	DDM database design must be version 8.
DDM: Execute CA role	No	No	DDM database design must be version 8.
DDM: Modular documents	No	No	DDM database design must be version 8.
DDM: By database view	No	No	DDM database design must be version 8.
Web administration server bookmarks	No	No	Requires Lotus Domino 8 administration client.
Directory			
Lotus Notes client version view	No	No	Lotus Domino directory design must be Lotus Domino 8.
DA: Authentication/ authorization-only secondary directories	No	No	Directory Assistance must be hosted on Lotus Domino 8 server.
DA: Improved configuration for LDAP directories	No	No	Directory Assistance must be hosted on Lotus Domino 8 server.
Improved group membership expansion	No	No	Only an option for searches of Lotus Domino 8 servers.
Tivoli Directory Integrator	No	No	Yes
Security			
Prevent access to Internet password fields	No	No	Can implement on any Lotus Domino 6, 7, or 8 server.
Internet password lockout	No	No	Must be enabled on Lotus Domino 8 server.
Certifier key rollover	No	No	Requires Lotus Domino 8 administration client.

	Lotus Notes 8 client required	Lotus Notes 8 mail template required	Limitations in an environment containing pre-version 8 Lotus Domino servers
ID file recovery APIs	No	No	Requires Lotus Domino 8 server.
Certificate revocation checking through OCSP	Yes	No	N/A
SSO for LTPAToken2	No	No	Yes
Integration with other IBM products			
Lotus Domino/DB2 improvements	No	No	DB2-enabled server must be Lotus Domino 8 server.
Lotus Domino and WebSphere Portal integration	No	No	Yes
Integration with Tivoli Enterprise Console	No	No	DDM database design must be version 8 and DDM collection server must be Lotus Domino 8.

New Lotus Domino 8 ODS

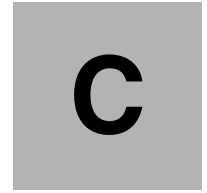
Lotus Domino 7 uses on-disk structure (ODS) 43. In Lotus Domino 8, there is a new ODS available. This is an option for administrators to use; it is not mandatory. It is also not automatically used for a new Lotus Domino server installation.

For databases to be created with the new ODS, set the following variable in your Lotus Domino 8 server NOTES.INI file:

```
Create_R8_Databases=1
```

The new ODS provides potential improvements for I/O and folder optimization and is a requirement for the implementation of these new features:

- ▶ Database names list, as described in section “User rename improvements” on page 112
- ▶ Design note compression, as described in 3.5.1, “Design note compression” on page 110.



Lotus Domino Web Access Client comparisons

This appendix contains a matrix comparing the features in Lotus Notes 8 with the Domino Web Access 8 Client and previous releases of Domino Web Access.

Although it is not possible to cover every feature in the clients, this matrix might help in deciding your upgrade process and which client is best for your users.

Lotus Notes and Domino Web Access Client comparison

A comparison chart of the major Mail, Calendar, To Do, and Contacts features for Lotus Notes 8 Client and Domino Web Access Client is shown in the following tables.

For the latest version of this comparison chart, see the Lotus Domino Web Access product page at:

<http://www-142.ibm.com/software/sw-lotus/products/product1.nsf/wdocs/webaccesshome>

Or, the Lotus Notes product page at:

<http://www-142.ibm.com/software/sw-lotus/products/product4.nsf/wdocs/noteslibrary>

Mail features comparison

Table C-1 on page 176 shows the major mail features between the Lotus Notes 8 Client (Notes 8), Domino Web Access 8 (DWA 8), Domino Web Access 7 (DWA 7), and Domino Web Access 6.5 (DWA 6.5).

Table C-1 Mail features

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Views and folders				
File type used	NSF (server, local)	NSF (server)	NSF (server)	NSF (server)
In-box view	Yes	Yes	Yes	Yes
Drafts view	Yes	Yes	Yes	Yes
All Documents view	Yes	Yes	Yes	Yes
Discussion thread view	Yes	Yes	Yes	No
Folders	Yes	Yes	Yes	Yes
Nested folders	Yes	Yes	Yes	Yes
Create and delete folders	Yes	Yes	Yes	Yes
Drag and drop messages into folders	Yes	Yes	Yes	Yes
Copy and move to folder	Yes	Yes	Yes	Yes
Discover folder	Yes	No	No	No
Unread count within folders	Yes	No	No	No
Soft deletes	Yes	Yes	Yes	Yes
Restore a message	Yes	Yes	Yes	Yes
From the action bar, open mail into specific view (for example, inbox, sent, drafts, and so on)	No	Yes	Yes	Yes
Support displaying columns defined in mail template	Yes	Yes	Yes	Yes
Support resizing various column widths	Yes	Yes	Yes	Yes
Forwarding multiple selected documents	Yes	Yes	Yes	Yes
Printing multiple selected documents	Yes	Yes	Yes	Yes
Displaying attention indicator	Yes	Yes	Yes	Yes
Color coding view lines based on sender	Yes	No	No	No
Color coding view lines based on recipients	Yes	Yes	No	No
Allow individual users to show or hide various columns	Yes	No	No	No
Message creation and addressing				
Create new message	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Customize header display for new messages	Yes	Yes	No	No
Type-ahead addressing	Yes	Yes, automatic name resolution provides this function.	Yes, automatic name resolution provides this function.	Yes, automatic name resolution provides this function.
Recent contacts	Yes	No	No	No
Support file attachments	Yes	Yes	Yes	Yes
View file attachments from within message	Yes	No, third party products are available for this.	No, third party products are available for this.	No, third party products are available for this.
Spell checking	Yes	Yes	Yes	Yes
Alternate name support	Yes	Yes	Yes	Yes
Sametime integration	Yes	Yes	Yes	Yes
Perform name and address book lookup	Yes	Yes	Yes	Yes
Display contacts sorted by organizational unit	Yes	Yes	Yes	Yes
Perform Integrated address book lookup when sending a message	Yes	Yes	Yes	Yes
Name lookups to LDAP directories	Yes	Yes	Yes	Yes
Personal contacts address book	Yes	Yes	Yes	Yes
Delivery options (importance, delivery priority, delivery report)	Yes	Yes	Yes	Yes
Forward message	Yes	Yes	Yes	Yes
Save message draft	Yes	Yes	Yes	Yes
Create a serial route memo	Yes	Yes	Yes	Yes (new in 6.5.3)
Copy Into - convert item to Task, Calendar Entry, or New Memo	Yes	Yes	No	No
Return receipt	Yes	Yes	Yes	Yes
Prevent copying	Yes	No	No	No
Apply mood stamps to messages	Yes	No	No	No
Create or use stationery	Yes	Yes	Yes	No
Choose a letterhead	Yes	No	No	No
Create a message containing a signature file	Yes	Yes	Yes	Yes
Type-ahead within "Move to Folder" dialog	Yes	No	No	No

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Specify outbound message with a "reply by" date	Yes	No	No	No
Specify message expiration date	Yes	No	No	No
Utilize plain text or rich text editor	No	Yes	Yes	Yes
Internet message format	Yes	Yes	Yes	Yes
Viewing and responding to message items				
Preview pane	Yes	Yes	No	No
Support for read or unread marks	Yes	Yes	Yes	Yes
Navigate to next document without returning to view	Yes	Yes	Yes	Yes
Delete current document and navigate to next document without returning to view	Yes	Yes	Yes	No
Perform mail file delegation	Yes	Yes	Yes	Yes
Reply with history	Yes	Yes	Yes	Yes
Reply to memo	Yes	Yes	Yes	Yes
Reply to all	Yes	Yes	Yes	Yes
Reply without attachments	Yes	Yes	Yes	Yes
View rich text within a message	Yes	Yes	Yes	Yes
Support for Doc Links, View Links, and Database Links	Yes	Yes	Yes	Yes
View tables within messages	Yes	Yes	Yes	Yes
Create tables within messages	Yes	Yes	Yes	Yes
Resend documents from within a delivery failure	Yes	Yes	Yes	Yes
View sections	Yes	Yes	Yes	Yes
Action bar	Yes	Yes	Yes	Yes
Add sender of message to personal contacts list from view	Yes	Yes	No	No
Add sender of message to personal contacts list from message	Yes	Yes	Yes	Yes
Modify or view the file's ACL from client	Yes	No	No	No
Display of importance or type icons in views	Yes	Yes	Yes	Yes
Read encrypted mail and verify signature of signed mail	Yes	Yes	Yes	Yes
Verify signature of signed mail	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Next or previous navigation within an open mail message	Yes	Yes	Yes	Yes
Preference setting for new mail on top or bottom	No	Yes	Yes	Yes
Automatically checking for new messages	Yes	Yes	Yes	Yes
Follow up flags	Yes	Yes	Yes	Yes
Column sort in general	Yes	Yes	Yes	Yes
Sort by subject	Yes	Yes	Yes	No
Display mail thread for current message	Yes	Yes	Yes	No
Advanced editing features in rich text field				
Left, right and center, indent, or outdent text justification	Yes	Yes	Yes	Yes
Tables - simple tables, not all complex.	Yes	Yes	Yes	Yes
View sections	Yes	Yes	Yes	Yes
Support for embedded OLE objects	Yes	No	No	No
Java applet support	Yes	No	No	No
Page break	Yes	Yes	Yes	Yes
Horizontal line	Yes	Yes	Yes	Yes
Hotspots	Yes	No	No	No
Insert image resources	Yes	Yes	Yes	Yes
Create sections	Yes	No	No	No
Ability to switch language dictionaries for spell checking	No	Yes	Yes	Yes
Support for both bullets and number lists	Yes	Yes	Yes	Yes
Undo	Yes	Yes	Yes	Yes
User preferences				
New mail notification	Yes	Yes	Yes	Yes
Default mail send or save setting	Yes	Yes	Yes	Yes
Ability to archive mail and calendaring and scheduling documents	Yes	Yes	Yes	Yes
Lookup across multiple address books	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Automatically create a reply message by clicking on the From field	No	Yes	Yes	Yes
Security				
Send signed or encrypted mail	Yes	Yes	Yes	Yes
S/MIME	Yes	Yes	Yes	No
Read encrypted mail	Yes	Yes	Yes	Yes
Field, form, view, document, section level security	Yes	No	No	No
User roles	Yes	No	No	No
Local encryption of mail database	Yes	Yes	Yes	Yes
Other features				
Control of database properties or design (refresh, replace, and so on)	Yes	No	No	No
Support for alternate editors for mail messages	Yes	No	No	No
Built-in news reader, POP mail, IMAP mail	Yes	No	No	No
Support for Notes and Domino database subscriptions	Yes	No	No	No
Extended search (within databases, attachments, messages, and so on), control of search, refinement of search with form, and so on.	Yes	No	No	No
Drag and drop documents between frames	Yes	Yes	Yes	Yes
User can change their own password from client	Yes	Yes	Yes	Yes
Support for mail rules	Yes	Yes	Yes	Yes
Integrated instant messaging	Yes	Yes	Yes	Yes
Usage indicator (quota)	No	Yes	Yes	No
Out Of Office	Yes	Yes	Yes	Yes
Support for new Out of Office service	Yes	Yes	No	No
Auto discover user configuration	N/A	Yes	Yes	Yes
Quick find	Yes	Yes	Yes	Yes
Support setting as default mail client on Win32® system	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Send current document from Microsoft Office applications	Yes	Yes	Yes	Yes
Support for RSS feeds or atoms	Yes	Yes	No	No
Supported on Linux	Yes	Yes	Yes (new in 7.0.1)	No

Calendar features comparison

Table C-2 shows the major calendar features between the Lotus Notes 8 Client (Notes 8), Domino Web Access 8 (DWA 8), Domino Web Access 7 (DWA 7), and Domino Web Access 6.5 (DWA 6.5).

Table C-2 Calendar features

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Views				
From the action bar, open calendar into specific view (for example, 1-day, 1 week, 1-month, and so on)	No	Yes	Yes	Yes
Calendar views	1 day, 2 day, 5 day, 1 week, 2 week, 1 month	1 day, 2 day, 5 day, 1 week, 2 week, 1 month, 1 year	1 day, 2 day, 5 day, 1 week, 2 week, 1 month, 1 year	1 day, 2 day, 5 day, 1 week, 2 week, 1 month, 1 year
Summarized calendar views	Yes	Yes	Yes	Yes
Display unprocessed invites in calendar	Yes	Yes	Yes	Yes
Unaccepted meetings displayed within calendar	Yes	Yes	Yes	Yes
Meeting view	Yes	Yes	Yes	Yes
Calendar print preview	Yes	Yes	Yes	Yes
Inline calendar view editing	Yes	Yes	Yes	Yes
Work or non-work hour differentiation	Yes	Yes	Yes	Yes
Calendar filtering	Yes	Yes	No	No
Ability for chairperson to see status of invitees from the view level	Yes	Yes	Yes	Yes
Calendar entries and group scheduling				
Double-click within the calendar view to create an entry	Yes	Yes	Yes	Yes
Create appointment	Yes	Yes	Yes	Yes
Create all-day event	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Create reminder	Yes	Yes	Yes	Yes
Create anniversary	Yes	Yes	Yes	Yes
Create meeting invitation	Yes	Yes	Yes	Yes
Save calendar entry as draft	Yes	Yes	Yes	No
Forward a calendar entry	Yes	Yes	Yes	No
Create rich text in detailed description field	Yes	Yes	Yes	Yes
Automatic date (calendar picture) and time selector controls	Yes	Yes	Yes	Yes
Centrally-managed rooms and resources	Yes	Yes	Yes	Yes
Create repeating entries	Yes	Yes	Yes	Yes
Add alarms to entries	Yes	Yes	Yes	Yes
Attach a file to invitation forms	Yes	Yes	Yes	Yes
Pencil in a meeting or tentatively schedule	Yes	Yes	Yes	Yes
Mark an entry private or "not for public viewing"	Yes	Yes	Yes	Yes
Delivery options on calendar entries	Yes	Yes	Yes	Yes
Address lookup for inviting people	Yes	Yes	Yes	Yes
Check free time availability for invitees	Yes	Yes	Yes	Yes
Support for counter-proposal	Yes	Yes	Yes	Yes
Free time search within a counter-proposal	Yes	Yes	Yes	No
Respond with comments within a counter-proposal	Yes	Yes	Yes	Yes
Edit calendar entries	Yes	Yes	Yes	Yes
Send a reschedule notice	Yes	Yes	Yes	Yes
Add additional invitees after invitation is sent	Yes	Yes	Yes	Yes
Send "broadcast" invitation (no RSVPs or responses)	Yes	Yes	Yes	Yes
Send meeting confirmation	Yes	Yes	Yes	Yes
Display invitee responses in invitation	Yes	Yes	Yes	Yes
Accept invitation	Yes	Yes	Yes	Yes
Decline invitation	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Counter propose an alternative time	Yes	Yes	Yes	Yes
Accept or decline with comments	Yes	Yes	Yes	Yes
Delegate an invitation	Yes	Yes	Yes	Yes
Check calendar from invitation page	Yes	Yes	Yes	Yes
Create and maintain group calendar	Yes	Yes	Yes	Yes
Create meeting invitation from group calendar view, populating group members in invitation	No	Yes	Yes	Yes
Accept counter proposal	Yes	Yes	Yes	Yes
Support for meetings spanning midnight	Yes	Yes	Yes	Yes
Calendar and scheduling entry support for online Sametime meetings	Yes	Yes	Yes	Yes
Ability to specify time zones in calendaring and scheduling entries	Yes	Yes	Yes	Yes
Users in different time zones can share the same server and still see meeting times with respect to their own zone	Yes	Yes	Yes	Yes
Generate PDF calendar printouts	No	Yes	Yes	Yes
Drag and drop to reschedule a calendar entry	Yes	Yes	Yes	Yes
Import corporate holidays	Yes	Yes	Yes	No
User preferences				
Default location for resources	Yes	Yes	No	No
Set global default appointment duration	Yes	Yes	Yes	Yes
Set global default calendar entry type	Yes	Yes	Yes	Yes
Option to make free time available to only certain users	Yes	Yes	Yes	Yes
Options to set allowable free time	Yes	Yes	Yes	Yes
Enable conflict checking for calendar entries	Yes	Yes	Yes	Yes
Allow another user to manage calendar without allowing access to e-mail	Yes	Yes	Yes	Yes

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Mark default calendar entry as "not for public viewing"	Yes	Yes	Yes	Yes
Autoprocessing of calendar information				
Option to remove invitations from Inbox after processing	Yes	Yes	Yes	Yes
Ability to autoprocess invitations	Yes	Yes	Yes	Yes

To Do features comparison

Table C-3 shows the major To Do features between the Lotus Notes 8 Client (Notes 8), Domino Web Access 8 (DWA 8), Domino Web Access 7 (DWA 7), and Domino Web Access 6.5 (DWA 6.5).

Table C-3 To Do

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
To Dos				
To Dos follow day-to-day in calendar view	Yes	Yes	Yes	Yes
Display To Do in calendar view	Yes	Yes	Yes	Yes
Delegate a To Do to another person	Yes	Yes	Yes	Yes
Create To Dos (with start and end dates)	Yes	Yes	Yes	Yes
Categorize new To Do entries	Yes	Yes	Yes	Yes
Alarm notification on To Dos	Yes	Yes	Yes	Yes
Mark To Dos complete or uncompleted	Yes	Yes	Yes	Yes
Create group To Dos	Yes	Yes	Yes	Yes
Display To Dos in Gantt chart format	No	Yes	Yes	Yes
Priorities for To Dos (high, medium, or low)	Yes	Yes	Yes	Yes
Create personal To Dos	Yes	Yes	Yes	Yes
Owner and participant actions	Yes	Yes	Yes	Yes
Forward a To Do item	Yes	Yes (header info only)	Yes (header info only)	Yes (header info only)

Contacts features comparison

Table C-4 on page 185 shows the major contacts features between the Lotus Notes 8 Client (Notes 8), Domino Web Access 8 (DWA 8), Domino Web Access 7 (DWA 7), and Domino Web Access 6.5 (DWA 6.5).

Table C-4 Contacts

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Personal contacts				
Sort contacts by last name, company, e-mail, address, and so on	Yes	Yes	Yes	Yes
Add users in Domino directory to personal contact list	Yes	Yes	Yes	Yes
Select multiple contacts and send message	Yes	Yes	Yes	Yes
Select multiple contacts and schedule a meeting	Yes	Yes	Yes	Yes
Business card summary view	Yes	Yes	Yes	Yes
Categorization of contacts	Yes	Yes	Yes	Yes
Automatically add e-mail sender to personal contact list (from inbox)	Yes	Yes	Yes	Yes
Forward a contact	Yes	Yes	Yes	No
Open contacts for another person	Yes	Yes	No	No

Other features comparison

Table C-5 shows the major mail features between the Lotus Notes 8 Client (Notes 8), Domino Web Access 8 (DWA 8), Domino Web Access 7 (DWA 7), and Domino Web Access 6.5 (DWA 6.5).

Table C-5 Attachment and miscellaneous

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Attachments				
Unlimited attachments	Yes	Yes	Yes	Yes
Drag and drop attachments from desktop or file system	Yes	Yes	Yes	Yes
Ability to rename attachments on download	Yes	Yes	Yes	Yes
Miscellaneous				
Browser support	N/A	Internet Explorer® 6 and Internet Explorer 7 (Win XP/Vista), Mozilla 1.7x (Linux; NLD 10 and RHEL 5.0), FireFox 2.0 or later (Linux, Win XP/Vista and MAC 10.4.x)	Internet Explorer 6.0 or later (Win32), Mozilla 1.7x (Linux), FireFox 1.0.x (Linux and Win32 and MAC)	Internet Explorer 5.5/6.0 (Win32), Mozilla 1.3.1 or later (Linux)

Feature	Notes 8	DWA 8	DWA 7	DWA 6.5
Advanced search (contextual by text, author, or date)	Yes	Yes	Yes	Yes
Journal integrated in mail file	Yes	Yes	Yes	Yes
Contacts integrated in mail file	Yes	Yes	Yes	Yes
Ability to snooze alarms across multiple sessions or logins	No	Yes	Yes	Yes
Context sensitive help	Yes	Yes	Yes	Yes
Multilingual template support	Yes	Yes	Yes	Yes
Support for all Domino server platforms	Yes	Yes	Yes	Yes
Offline support for messaging, PIM, and collaborative applications	Yes	Messaging, PIM (same DOLS code used for applications)	Messaging, PIM (same DOLS code used for applications)	Messaging, PIM (same DOLS code used for applications)
Home page support	Yes	Yes	Yes	Yes
Mail view filter for unread messages	Yes	Yes	Yes	Yes
Schedule replication	Yes	Yes	Yes	No
Secure logoff	Yes	Yes	Yes	Yes
Cache cleaning	N/A	Yes	Yes	Yes
Auto save	Yes	No	No	No
Message disclaimers	Yes	Yes	Yes	Yes
Archiving	Yes	Yes	Yes	Yes
Log off instant messaging without getting out of the mail file or turning it off in the preference	Yes	Yes	No	No

Related publications

The publications listed in this section are considered particularly suitable for a more detailed discussion of the topics covered in this Redpaper.

IBM Redbooks publications

For information about ordering these publications, see “How to get IBM Redbooks publications” on page 188. Note that some of the documents referenced here may be available in softcopy only.

- ▶ *Lotus Domino Domain Monitoring*, REDP-4089
- ▶ *Lotus Domino 7 Application Development*, REDP-4102
- ▶ *Understanding Lotus Notes Smart Upgrade*, REDP-4180
- ▶ *Domino 7 Performance Tuning Best Practices to Get the Most Out of Your Domino Infrastructure*, REDP-4182
- ▶ *Domino 7 Server Consolidation: Best Practices to Get the Most Out of Your Domino Infrastructure*, REDP-4181
- ▶ *Domino Web Access 7 Customization*, REDP-4188
- ▶ *Lotus Notes and Domino 8 Deployment Guide*, SG24-7506

Online resources

These Web sites are also relevant as further information sources:

- ▶ IBM Lotus Notes and Domino 8:
<http://www.ibm.com/lotus/nd8>
- ▶ Lotus Notes and Domino software:
<http://www.ibm.com/lotus/notesanddomino>
- ▶ Lotus Notes and Domino library:
<http://www.ibm.com/lotus/nd-library>
- ▶ People productivity application development:
<http://www.ibm.com/lotus/appdev>
- ▶ “The new IBM Lotus Notes 8 Out of Office functionality” article:
<http://www.ibm.com/developerworks/lotus/library/notes8-ooo/>
- ▶ *IBM Lotus Notes and Domino 7 Reviewers Guide*:
ftp://ftp.software.ibm.com/software/lotus/lotusweb/product/domino/ND7_Reviewers_Guide.pdf
- ▶ *Lotus Notes 6 and Lotus Domino 6 Reviewer's Guide*:
<ftp://ftp.software.ibm.com/software/lotus/lotusweb/product/domino/Domino6/NOT-2002-176.pdf>

- ▶ Why upgrade to Lotus Notes/Domino 7:
<http://www.ibm.com/lotus/ndwhyupgrade>
- ▶ IBM Lotus Notes and Domino 7.0.2:
<http://www.ibm.com/lotus/nd702>
- ▶ Lotus Sametime product page:
<http://www.ibm.com/lotus/sametime>
- ▶ WebSphere Portal product page:
<http://www.ibm.com/websphere/portal>
- ▶ IBM Support Assistant:
<http://www.ibm.com/software/support/isa/>
- ▶ “Best practices for large Lotus Notes mail files” article:
<http://www.ibm.com/developerworks/lotus/library/notes-mail-files/>
- ▶ “A custom DXL framework for accessing Notes/Domino data” article:
<http://www.ibm.com/developerworks/lotus/library/app-dxl/>

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IBM Lotus Notes and Domino 8 Reviewer's Guide



New productivity tools for users

Comprehensive overview of all new and improved features

Understand business benefits of this open, extensible, and innovative solution platform

With Lotus Notes and Domino 8, world class business e-mail and collaboration take an exciting step forward, offering new approaches to enhance efficiency and creativity, while extending the value of current investments. This IBM Redpaper will guide you through all the newly released innovative and open features of Notes and Domino 8. It is a must-read for any existing or potential user of Lotus Notes and Domino, from the casual user to the administrator or application developer to line of business executive.

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