



**Note:** Before using this information and the product it supports, read the information in "Notices" on page 201.

**First Edition (August, 2005)**

This edition applies to IBM® Lotus® Notes® and IBM Lotus Domino® 7, and to all subsequent releases and modifications, until otherwise indicated in new editions.

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# Chapter 1 - About this release

## New in this release

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### **Welcome to IBM Lotus Notes, Domino, and Domino Designer 7.0**

Welcome to IBM Lotus Notes® and the IBM Lotus Domino™ Server family of software products. Notes/Domino Release 7 is the latest release of the world's leading products for information management, messaging, collaboration and application development.

These Release Notes contain information on the many new features and enhancements included in all Notes/Domino 7 products. For an overview of the features in this release, see the "About this release" chapter of these release notes.

Before installing, please review the "Installation, migration, upgrade, and configuration information" chapter of these Release Notes.

To ensure that you have the very latest version of these Notes and Domino Release Notes, please visit the Lotus Documentation page at:

<http://www.lotus.com/ldd/doc>

For exhaustive on-line searches of the README.NSF Release Notes database, without using a full-text index, use the **Search** view.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### **Directory install and CD-ROM structure**

#### **Notes CD-ROM directory structure**

AUTORUN.INF  
LICENSE.TXT  
README.NSF  
README.PDF  
APPS  
    DICTIONARIES  
    FONTS  
    SWIFTFILE  
    IS TUNER FOR LOTUS NOTES  
    FREE TIME WEB SERVICE DATABASE  
  
CLIENTS  
    W32INTEL  
AUTORUN

**Notes/Domino Designer CD-ROM directory structure**

AUTORUN.INF  
INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF  
APPS  
    DGW  
        SYNCINST  
        DICTIONARIES  
        FONTS  
        SWIFFFILE  
        IS TUNER FOR LOTUS NOTES  
        FREE TIME WEB SERVICE DATABASE  
  
CLIENTS  
    W32INTEL  
AUTORUN

**Domino Intel Server CD-ROM directory structure**

AUTORUN.INF  
INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF  
  
APPS  
    DB2 ACCESS FOR LOTUS DOMINO 7\_WIN.EXE  
  
SERVERS  
    WIN32INTEL  
AUTORUN

**Domino AIX Server CD-ROM directory structure**

INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF  
  
APPS  
    DB2 ACCESS FOR LOTUS DOMINO 7\_AIX.EXE  
  
IBMPOW  
    INSTALL  
    LICENSE  
    SCRIPT.DAT  
    SETS  
        DATA  
            FGINV  
    FGROUPS  
    TOOLS  
        BIN  
            AIX  
        LIB  
            PERL5  
        NLS

**Domino Solaris/Sparc Server CD-ROM directory structure**

INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF

SUNSPA  
  INSTALL  
  LICENSE  
  SCRIPT.DAT  
  SETS  
    DATA  
      FGINV  
    FGROUPS  
  TOOLS  
    BIN  
      SOL  
    LIB  
      PERL5  
    NLS

**Domino Linux CD-ROM directory structure**

INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF

LINUX  
  INSTALL  
  LICENSE  
  SCRIPT.DAT  
  SETS  
    DATA  
      FGINV  
    FGROUP  
  TOOLS  
    LIB  
      PERL5  
    NLS

**Domino Linux on zSeries CD-ROM directory structure**

INSTALL.PDF  
LICENSE.TXT  
README.NSF  
README.PDF  
README.TXT  
ZLINUX.TAR.GZ           - Domino for Linux on zSeries installation package  
ZLINUX\_CLIENT.TAR       - Workstation utility for Remote Server Setup

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### **Additional items on Notes and Domino CD-ROMs**

In addition to the Notes installation files, there are the following items on the Notes and Domino CDs. Please note that Lotus provides support only for Lotus software in the \APPS directory, and we support it on a best-effort basis. For other, non-Lotus software applications included in the \APPS directory, please refer to the appropriate third-party vendor for support.

### **Domino Global Workbench**

Domino Global WorkBench is a fully integrated component of the Domino Designer development environment. Domino Global WorkBench enables Web application developers to quickly and cost-effectively deliver multilingual Web and intranet applications.

#### **1. Documentation**

Please refer to online Help for more detailed information about the specifics of using Domino Global WorkBench 6. Our printable documentation, *Guidelines for Developers and Translators*, in Adobe Acrobat® PDF format, is available for download, from the Lotus Web site at [www.lotus.com/international](http://www.lotus.com/international).

#### **2. Overview of features**

Please refer to the "What's new in IBM Lotus Notes 7" topic in Help for information about features that are new in Notes 7.

#### **3. System Requirements**

The following hardware is recommended:

A Pentium® or equivalent processor

A minimum of 32Mb of memory

Approximately 32Mb of hard disk space to install the software

Operating system:

Windows 98®, Windows XP®, Windows 2000® or Windows NT® Release 4 is required to use this product.

To use the WorkBench:

Domino Designer 6 or above

To translate Domino Global WorkBench glossaries:

Notes 6 client, or above, or

Domino 6 server and Internet Explorer 5.5 or later

To use databases built by Domino Global WorkBench:

Server: Domino 6 or above

Client: Notes 6 or above, or a Web browser (see below)

To install the Language Synchronizer:

Server: Domino Release 5 or above

Browsers:

To work with Web-enabled language databases, a browser must be capable of supporting HTTP language detection, for example Netscape Navigator® 4.0 or later, or Microsoft Internet Explorer® 5.0 or later.

#### **4. Download and Installation**

To install from the Notes 7 CD:

Open the Apps\DGW folder and run Setup.exe.

To install after downloading from the Web:

You will have one file, DGW700.ZIP. Download this file to a temporary directory on your hard disk. Unpack it then run SETUP.EXE which will begin the installation process.

**Installation issues**

Before installing Domino Global WorkBench, be sure that your Notes program directory is in your path. Add it if necessary. (For example, in Windows 98, edit your C:\AUTOEXEC.BAT file and add C:\LOTUS\nOTES to the PATH= statement.)

If you are installing under Windows NT, 2000 or XP, and the user account being used does not have administrator privileges, you may find that installation terminates prematurely. This is because the install program is refused permission to copy the Microsoft MFC shared DLL, MFC42.DLL, resulting in install terminating before it completes. The solution is to ensure that the user account you use to install Domino Global WorkBench has administrator rights on the NT machine. (For the majority of users this is the case, so the problem does not arise.)

**5. Glossaries**

The design of the Domino Global WorkBench glossary application (DGWGLOSS.NTF) has been enhanced. You can update the design of glossaries created using earlier versions of Domino Global WorkBench by choosing File · Database · Replace Design.

**6. Multilingual databases and browsers**

The default language of a multilingual database will only be observed if:

1. You choose a language for your browser that does not exist in the multilingual database, and
2. No other languages that are used in your multilingual database are present in the language listbox of your Web browser.

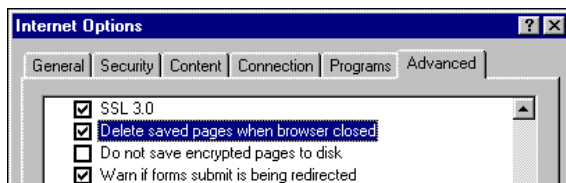
**7. Language switching and browsers**

When using Netscape or Internet Explorer to view multilingual databases created with Domino Global WorkBench, you must remove cached files before you can switch languages from the browser's 'Preferences' or 'Internet Options' dialog box. This is primarily relevant to developers, during testing.

**Workarounds**

Netscape: The cache size can be set to zero (0) in the 'Preferences' dialog. Otherwise, the cache must be emptied, again through the 'Preferences' dialog, when switching languages.

Internet Explorer: The cache size reduction in this browser is limited to 1% of the machine's hard-disk size, so it cannot be set to zero (0). The cache may be emptied via the 'Internet Options' dialog, or the option to delete cached files may be set in the 'Advanced' tab of the 'Internet Options' dialog (see below) when the browser is closed. The cached files are then deleted by closing and then reopening the browser.

**8. Synchronization**

The language synchronizer has not changed in this release of Domino Global WorkBench.

**Synchronized databases**

Performance issues have been noted when synchronizing large numbers of new documents (> 1,000) where the databases are located on a server other than that on which the synchronizer server task is running. It is best to locate databases on the same server as the synchronizer server task.

**9. Bi-Directional language support**

Domino Global WorkBench includes bi-directional functionality for the Hebrew and Arabic languages. For details, see the topic "Support for bi-directional languages" in the documentation.

## 10. LotusScript compile and Notes documents

You may encounter problems if you use Domino Global WorkBench to localize Notes documents that contain LotusScript or formulas. This can happen if:

1. The form used by the documents contains some LotusScript and has the "Store form in document" property set (on the Info tab of Designer form infobox). The entire contents of the form are then included with every document created from it, but the LotusScript is **not** recompiled as part of the build process, even if it has been translated. The original (source database) version of the script will execute in the built database.
2. The documents have hotspots that contain script. This only applies to hotspots in the document content (in other words, added by the author in a rich text field). All hotspots in document content are signed as a security measure. Because Domino Global WorkBench cannot sign these hotspots it cannot translate the associated LotusScript. If the WorkBench encounters LotusScript in a signed hotspot, it issues the following warning:

Warning: A signed hotspot could not be translated. The untranslated data may include scripts and/or formulas.

The script is then copied to the target database without any changes (in other words, without tagging or translation).

Workaround: LotusScript or formulas associated with signed hotspots must be translated by hand in the Notes 6 client after building is complete.

## 11. Editing documents in a projects database

Documents in a projects database are, by default, not editable. If a document must be edited, then it must be opened and View\Switch Form... selected. The form for the document is then chosen, and the document placed in edit mode.

If a folder document name is edited in the project database, then the names of any project documents for this folder must also be modified to match or unexpected results may occur in the WorkBench.

## 12. Keywords and values in help documents

Sometimes a Notes application may span several databases, with all keywords and values grouped in help documents in one of the databases. Formulas referencing the database with the keywords and values will only continue to work if they contain the correct name of the database file they are calling. When localizing, you can either translate the database name in the calling formulas, in which case you must take care to rename the built database to the translated name, or you can leave the database name untranslated in the calling formulas, in which case the different language versions of the application will have to reside in different directories. The help documents themselves can be processed in the usual way by Domino Global WorkBench.

## 13. Project icons in Windows XP

In Windows XP, the display of project icons on the left frame of the WorkBench can be obscured if you create too many of them (more than about 25). You can alleviate the problem by organizing your projects into folders.

**Language dictionary files**

The language dictionary files are used for spell-checking within Notes. The following language dictionary files are included in a self extracting file located in the \APPS\DICTIONARIES directory. Notes automatically installs certain dictionary files that correspond to your language version of Notes. If you want to use one of the dictionary files listed below and find that it has not been installed automatically by Notes, simply decompress the contents of the DICTIONARIES.EXE (DICTIONARIES.SEA for Macintosh) self-extracting file on the CD-ROM to a temporary directory on your hard drive and copy the appropriate dictionary file (listed below) into your Notes data directory.

Language	Dictionary File Name
Afrikaans*	AFRIKAAN.DIC
Arabic*	ARABIC.DIC
Catalan	CATALA.DIC
Chinese*	CLKCHS.DIC CLKCHT.DIC
Czech*	CZECH.DIC
Danish	DANSK.DIC
Dutch Dutch Belgian	NEDERLND.DIC
Dutch Preferred	NEDPLUS.DIC
English (Australia)	AUS.DIC
English (Canada) English (Caribbean) English (Jamaica) English (New Zealand) English (United States)	US.DIC
English (Ireland) English (South Africa) English (United Kingdom)	UK.DIC
Finnish	SUOMI.DIC
French (Belgium) French (Luxembourg) French (Standard) French (Switzerland)	FRANCAIS.DIC
French (Canada)	CANADIEN.DIC
German (Austria) German (Liechtenstein) German (Luxembourg) German (Standard)	DEUTSCH.DIC
German (Reform)	DEUTSCH2.DIC
German (Switzerland)	DSCHWEIZ.DIC
Greek*	HELLAS.DIC
Hebrew*	HEBREW.DIC
Hungarian*	MAGYAR.DIC
Icelandic*	ISLENSK.DIC
Italian (Standard) Italian (Switzerland)	ITALIANO.DIC

<u>Language</u>	<u>Dictionary File Name</u>
Medical (American) Medical (British) Medical (British IZE)	US.MED
Norwegian (Bokmal)	NORBOK.DIC
Norwegian (Nynorsk)	NORNYN.DIC
Polish*	POLSKA.DIC
Portuguese (Brazil)	BRASIL.DIC
Portuguese (Standard)	PORTUGAL.DIC
Russian* Russian (lo)*	RUSSIAN.DIC
Spanish Spanish (Argentina) Spanish (Bolivia) Spanish (Chile) Spanish (Colombia) Spanish (Costa Rica) Spanish (Dominican Republic) Spanish (Ecuador) Spanish (Guatemala) Spanish (Mexico) Spanish (Modern Sort) Spanish (Panama) Spanish (Paraguay) Spanish (Peru) Spanish (Uruguay) Spanish (Venezuela)	ESPANA.DIC
Swedish	SVENSK.DIC
Thai*	SPELLT.GRA
Turkish*	TURKIYE.DIC

\* is available for Windows platform only.

### Monotype WorldType fonts

Monotype WorldType™ fonts support Unicode-based display of multilingual text. Five different fonts are available, each tuned to a different multilingual environment. Subsetting the fonts-based character set usage significantly reduces the size of a font, thus improving performance. Information about Monotype's Unicode fonts can be found at <http://www.monotype.com>.

The following fonts are included in a self extracting file located in the \APPS\FONTS directory:

- MTSANS\_W.TTF -- Monotype Sans WT (True Type) version 5.02 Covers the WGL4 character set. This font is suitable for use with most uses of the Latin alphabet (including all diacritical marks), as well as Greek, Cyrillic, Slavic, Turkish, Arabic and Hebrew languages.
- MTSANS\_JOUTLINE.TTF -- Monotype Sans WT J (True Type) Covers the WGL4 character and the Japanese language with some support for other Asian languages.
- MTSANS\_KOUTLINE.TTF -- Monotype Sans WT K (True Type) Covers the WGL4 character set and the Korean language with some support for other Asian languages.

- MTSANS\_SOUTLINE.TTF -- Monotype Sans WT SC (True Type) Covers the WGL4 character set and Simplified Chinese with some support for other Asian languages.
- MTSANS\_TOUTLINE.TTF -- Monotype Sans WT TC (True Type) Covers the WGL4 character set and Traditional Chinese with some support for other Asian languages.

These fonts are designed for Windows use only. Execute the self extracting file FONTS.EXE in the \APPS\FONTS directory on the CD-ROM to decompress the contents to a temporary directory on your hard drive. The fonts can then be installed using the normal operating system procedure for installing fonts:

On Windows systems:

1. Open the Control Panel.
2. Open the Fonts folder.
3. Choose File · Install New Font.
4. Specify the drive and directory of the temporary directory containing one the above fonts.
5. Normally only one of the above fonts should then be selected for installation.

You may want to make a WorldType font your default Multilingual Font in Notes; open the User Preferences -> Basics panel and set the default Multilingual font in the "Default Fonts" dialog.

### **SwiftFile Mail Assistant 2.0**

SwiftFile is an add-on to the Notes client that helps users file their e-mail into folders. SwiftFile learns to predict where the user is likely to file each incoming message. Based on its predictions, SwiftFile adds three shortcut buttons to the top of each message that can be used to quickly file a message into one of the suggested folders. When one of SwiftFile's predictions is correct, the effort required to file a message is reduced to a single button click.

#### **Installation**

SwiftFile can be installed from the Notes 7 CD by running setup.exe in the Apps\SwiftFile directory. After the SwiftFile installer completes, follow the directions in the SwiftFile ReadMe file to enable SwiftFile for your mail database.

#### **International Support**

SwiftFile supports all languages supported by Lotus Notes. Multiple languages can be mixed within the same database and even within the same document without adversely affecting SwiftFile's prediction ability.

#### **System Requirements**

Windows 98/NT SP4/2000/XP

32 MB RAM

10 MB free disk space

Lotus Notes 7 or later

### **InstallShield Tuner for Lotus Notes**

Creating a transform file to customize the IBM Lotus Notes 7 client installation package requires a third-party tool, such as InstallShield® Tuner. Lotus Notes 7 contains an OEM version called InstallShield Tuner for Lotus Notes that lets you create customization transforms to add resources, change defaults, or hide features present in the standard Lotus Notes 7 kit. Note that InstallShield Tuner for Lotus Notes works with both Lotus Notes 7 client packages (Notes only and All Clients), but cannot be used to customize any other MSI packages.

To install InstallShield Tuner for Lotus Notes, run setup.exe from the Apps\InstallShield Tuner for Lotus Notes folder on the Lotus Notes 7 Installation CD.

Please note that IBM Technical Support does not provide assistance for InstallShield Tuner for Lotus Notes. However, InstallShield Tuner for Lotus Notes does include comprehensive online help to familiarize you with the process of customizing an industry-standard Windows Installer (.MSI) package. For additional details about InstallShield Tuner OEM, please visit the InstallShield web site at <http://www.installshield.com>.

### Free Time Web Service database 7.0

The Busy Time Web Service database (BUSYTIMEWS.NSF) allows a Domino Server to provide busy time information about the users in its Domino Directory through a Web Service.

This is a sample application and may change in future releases.

#### **Using this Database**

This is a sample application and may change in future releases.

#### **Accessing the Web Service**

The Domino 7.0 server now does free/busy time lookup for meeting attendees whose names are Internet e-mail addresses. If an attendee whose name is an Internet e-mail address is in the same Domino Domain as the server, the server obtains the attendee's free time information from the Free Time database (BUSYTIME.NSF) as usual. If the attendee is not in the local Domino domain, the server sends the lookup request to the Web Service gateway, wsconn. Wsconn then makes a Web service request for the information to the Web service defined by the NOTES.INI variable WSCALCONN\_URL. The URL should have the following syntax for a remote Domino server providing the Web service:

```
http://host/busytimeWS.nsf/busytimeLookup?OpenWebService
```

To run wsconn at server startup, add wsconn to the NOTES.INI variable ServerTasks. Any Web service client can obtain free time information using this Web service

#### **Providing the Web Service**

To provide the web service on a Domino server:

1. Add a new person document to the Domino directory that includes an HTTP password. No Notes ID is required for this user.
2. Modify the ACL of the database BUSYTIMEWS.NSF to give this user Reader access.
3. Provide this user's name and HTTP password to the manager of the server or Web service client that wants to access the Web service.

Tip: Use a full name without spaces to make the use of this name in URLs easier to manage.

#### **Obtaining the WSDL of the Web Service**

To obtain the WSDL (the formal definition of the Web Service, encoded in XML) for this Web Service, use the following URL:

```
http://host/busytimeWS.nsf/busytimeLookup?WSDL
```

#### **Securing the Web Service**

You can secure the Free Time Web Service by doing one of the following:

- Protect the service using HTTP transport level security. To do this, create a new user in the server's Domino Directory and assign that user an HTTP password. The user does not need a Notes ID. Then set the database ACL for BUSYTIMEWS.NSF to "no access" for Default and "no access" for Anonymous. Set the access for this new user to Reader.

To provide the user name and password when a Domino server accesses this Web service, include the username and password in the URL as follows. Remember that URLs cannot contain spaces.

```
http://username:password@host/busytimeWS.nsf/busytimeLookup?OpenWebService
```

- Encrypt the data exchange with the Web service using SSL. You can do this if the server's Web server is configured to support SSL and the URL contains HTTPS rather than HTTP.

**IBM DB2 Access for Lotus Domino**

IBM DB2 Access for Lotus Domino is a server that acts as an extension to DB2, in order to enforce Domino database security (such as ACLs and reader lists) for DB2-enabled data. If IBM DB2 Access for Lotus Domino is not installed properly, the DB2 Designer functions will not be available, and you will not be able to access DB2 using SQL. IBM DB2 Access for Lotus Domino facilitates your use of the Designer view functions for DB2 by enabling Domino's user security. Install and enable IBM DB2 Access for Lotus Domino to allow DB2 to access Domino data.

Be sure to install IBM DB2 Access for Lotus Domino on the DB2 server which hosts Notes data. This can be the same computer on which Domino is installed for a local configuration, or it may be a different computer in a remote configuration. When you install IBM DB2 Access for Lotus Domino, a DB2 Access Server Connection document is created when the Domino server is started. This DB2 Access Server Connection document connects IBM DB2 Access for Lotus Domino and a Domino server that you designate using the Domino Administrator.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

**Help databases - usage and availability**

Lotus Notes 7 and Lotus Domino 7 include Help databases for Lotus Notes, Lotus Domino Designer, and Lotus Domino Administrator (Server). The Help databases are installed by default in the HELP directory of your Notes or Domino data directory.

Title	Database file name	Description
Lotus Notes 7 Help	HELP7_CLIENT.NSF	Lotus Notes Client Help
Lotus Domino Designer 7 Help	HELP7_DESIGNER.NSF	Lotus Domino Designer and programming language Help
Lotus Domino Administrator 7 Help	HELP7_ADMIN.NSF	Lotus Domino server and Lotus Domino Administrator Help

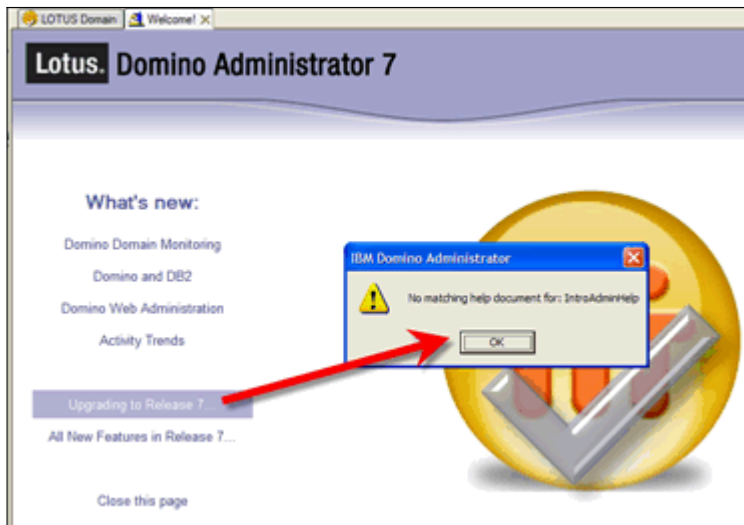
You can access Help in the following ways:

- Click the link to Help on the Notes, Domino Designer, or Domino Administrator Welcome pages
- Choose Help --> Help Topics from the menu bar
- Press F1
- Click the "?" in the top right corner of most dialog boxes
- Choose File --> Database --> Open and browse to your local directory or a Domino server
- Visit the Domino and Notes User Assistance Web site at <http://www-10.lotus.com/idd/notesua.nsf/>

Domino Administrator Client, Domino Server

### Please replace Administrator Help file with updated version

The Domino Administrator Client Welcome screen includes the link "Upgrading to Release 7 . . .". If you click on that link, you will see the following error message:



To resolve this issue, please download and replace your Lotus Domino Administrator 7 Help file with an updated version available on the developerWorks Lotus website at: <http://www-10.lotus.com/ldd/doc>.

Your Lotus Domino Administrator 7 Help file is located in the Notes/Data/Help directory.

Domino Administrator Client, Domino Server

### Upgrading to Lotus Notes 7 and Domino 7 documentation

The "Upgrading to Lotus Notes 7 and Domino 7" documentation will be updated at a later time. See the developerWorks Lotus web site for the updated "Upgrading to Lotus Notes 7 and Domino 7" documentation when it is available.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### Release notes - updated information available on-line

The Release Notes that are available on-line are more up-to-date than the Release Notes that are shipped with the product. This is due to production schedules; after the product ships, updates are sometimes made to the Release Notes and posted on the Lotus developerWorks website.

To ensure that you have the very latest version of the Notes and Domino Release Notes, please visit the Lotus Documentation page at:

<http://www.lotus.com/ldd/doc>

## New features

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### Overview - New features in IBM Lotus Notes and Domino 7

The following list represents an overview of the new features that are available in IBM Lotus Notes and Domino 7. For more comprehensive information about new features, please refer to the on-line Help files, and to the Documentation Updates chapter of these release notes.

#### Client

##### Accessibility

- You can designate row and column headers in tables so that screen-reader applications can detect them.

##### Desktop

- New menu option (File - Close All Window Tabs) allows a user to quickly close all open windows.
- No longer necessary to wait while a view which needs updating is being opened.
- IBM Workplace has been integrated into the Welcome Page Wizard, allowing users to create multiple Workplace welcome pages.
- Users can now save their open window state on shutdown. For example, if a user has 5 windows open, then shuts down Notes, those 5 windows will open when Notes is restarted.
- Preferences set via policies (both Desktop and Mail) can now be locked down by the administrator.
- AutoSave option for selected documents (see Designer section below).

##### Calendar and Scheduling

- A new Calendar Cleanup action allows users to easily and quickly delete old entries from their calendar.
- AutoProcessing can automatically accept a Calendar event even if there is a schedule conflict.
- In the Calendar View, display of calendar entry information has been extended from 4 to 9 lines.
- Conflicting Calendar entries are now optimized in the Calendar view, instead of spanning multiple columns.
- Users can cancel Calendar/Scheduling workflow when Sending with comments.
- The ability to filter data in Calendar views in the mail template by Type, Chair, and State has been added. @GetViewInfo(. . .) has been extended to return 'True' if the view is filtered @GetViewInfo([IsViewFiltered])
- The Calendar Mini-view has the ability to be expanded and collapsed.
- Calendar Managers can now mark messages for follow up in mail files that they manage.
- Calendar Managers: mail forwarded by a calendar manager will now be created/saved in the correct mail file.
- Meetings now allow you set up the Online portion of the meeting to restrict attendees to only those on the invite list and to provide a password for the online meeting.
- Meetings View renamed to All Calendar Entries and has new views and many usability improvements.
- Embedded graphics in the Description field now appear when sending an Invitation through iCalendar.

##### Rooms and Resources

- Users are able to specify a preferred site and a preferred list of rooms/resources to use when scheduling meetings.
- There is the ability to see which rooms/resources are restricted when scheduling meetings.
- Rooms and Resources workflow changed to eliminate double bookings - Rooms or Resources booked directly through the R&R database now get processed in the same way as Rooms/Resources booked through Calendaring and Scheduling.

- Rooms and Resources template has usability improvements to forms and views, including a simple form to create a reservation, and the ability to transfer a reservation.
- Administrators can limit how far in the future reservations can be made in the Resource Reservation database. Users who attempt to book a room or resource over the administrator set limit will receive a separate decline notice that will tell them that their reservation exceeded the limit.
- Administrators can set automatic reminder notices to be sent to the Chairperson who booked a particular room and/or resource, so that if a meeting is cancelled, the room and/or resource can be released.
- Room & Resources databases may now have replicas. If there are replicas of Rooms & Resource databases in a cluster, the Rooms & Resource Manager will take advantage of this and automatically fail over processing of requests when the responsible clustermate becomes unavailable. Administrators can now set up Room & Resources Manager to prevent overbooking of rooms and resources by users.

## Mail

- Users are warned if no Subject has been entered in a document.
- A new status bar icon indicates whether e-mail you receive is digitally signed, encrypted, or both.
- New icon indicates whether a mail item was sent to the recipient only; no cc: or bcc: recipients.
- Sort by Subject is now available on the Inbox and other views in Mail.
- Added Delivery Option to allow Personal Groups to remain collapsed.
- Mail Rules support for: Stop Processing Action, BlackList/WhiteList spam, and Form name.
- Attachment processing has been improved; users are warned to save edits to attachments before closing the Notes editor window.
- The Quick Follow Up feature allows a user to flag a document or set of documents for Follow Up, without displaying the Follow Up dialog box, by using defaults that are set in Preferences. Also, the user can now display the Follow Up dialog box by dragging and dropping to the Follow Up view.
- Follow Up actions are available via the right-click mouse menu.
- The right-click mouse menu options have been optimized for ease of use.
- Mail threads can now be displayed as part of the Memo header.
- Mail views now have a new Folder action - Discover Folders - when a document is selected in the view, and the Folder-Discover Folders action is selected, a dialog box will be displayed showing which folders the selected document is in.
- When upgrading a folder design manually, you can now choose to base the design on All Documents.
- Mail Preferences can now be set via policies, allowing administrators to roll out a single set of preferences to all users. These preferences can be locked down by the administrator so that the end user cannot modify them.
- Users can now display a view level icon within the Inbox that shows if they are the only one, or one of a few listed, in the "To" and/or "cc:" field.
- A 'Date/Time deleted' column has been added to the Trash folder.
- Archiving - UI usability improvements.
- Archiving - Creation Date can now be used when archiving.
- Archiving - Administrators can now set a maximum retention time for archiving.
- Archiving - Administrators can now use a custom generated expiration field.

## Roaming

- When Roaming users with the same name cannot be distinguished, an error message is displayed.

## Interoperability

- Smart Tags integration - Access to Notes is available using the Smart Tags feature in Microsoft Office XP. Smart Tags work by recognizing certain types of text (for example, person names), and then offering related functions and commands. You can now send Notes mail, show name details and/or invite the person to a meeting.

## Template

- Lotus Instant Messaging and Web Conferencing (formerly Sametime) integration has been added to the Mail, Calendar, and Scheduling views; to the Teamroom and Discussion templates, to the Personal Name and Address Book; to the Domino Directory; and to the Rooms and Resources template. Users can see who is online, indicated by a Globe icon, and click a button to start a chat session.
- The TeamRoom and Discussion templates, Rooms and Resources, and Document Library, support Mozilla browser.

## Instant Messaging integration

- Chat transcripts can now be saved to a "Chat transcript" view in a Mail database.
- The 'File' menu bar now includes Instant Messaging options.
- Notes Instant Messaging Chat windows are now in a separate thread - they are no longer blocked when the Notes client is blocked.
- Notes Instant Messaging buddy Contact list can now be minimized to the Windows task bar.
- Notes Instant Messaging preferences now support three new options for when a new IM message or invitation arrives: Bring message window to front, Blink window and Play sound.
- Instant Messaging preference options have been added to the Status bar.
- Notes Instant Messaging buddy Contact list includes three new options: Show online people only, Show short names, and Sort list.
- The 'Create' menu bar item now includes Instant Meeting options.
- If your Sametime server includes Web conferencing capabilities, Notes Instant Messaging Meetings now support Screen Sharing, Whiteboard, Audio and Video.
- If your Sametime server includes Web conferencing capabilities, the Toolbar now has icons for Screen Sharing, Whiteboard, Audio and Video Instant Meetings.
- Notes URLs can now be pasted into and activated within Notes Chat windows.
- Auto-reconnect to a Sametime server when that server goes down is allowed.

## Notes Application Plug-in for use with the IBM Workplace Collaboration Services Managed Client

- The Notes Application Plug-in is included as part of the Notes / Domino 7 release, and is designed to work in conjunction with the IBM Workplace Collaboration Services 2.5.x Managed Client. For more information, see the IBM Workplace Collaboration Services 2.5.x release notes.
- The Workplace document repository is available for selecting files to attach and detach from a Notes Rich text field.

## Designer

### DB2 Access View and DB2 Query View

Support for DB2 data store is introduced with Domino 7. For more information about this new feature, please refer to the Domino 7 Designer Help documentation.

- DB2 Access View is a new design element available for DB2-enabled databases.
- DB2 Query View is a new type of view available for DB2-enabled databases. Query views display a unique view icon.

## Forms

- Designers now have the ability to specify that a form supports AutoSave - documents being edited with that form will be saved out locally based on a user specified time, so that they will be available after a system failure/crash. Users will also have the option to save out documents that use that form to the local store in the event the server they were working on goes down.

## Fields

- Text, Names, Dialog List, Radio Button and Check box fields now respect the Input Enabled method.

## Views

- Application developers can now have actions added to right-click menus in views.
- View Shared Column support has been added.
- Support for multiple "User Profile" columns in a view

## UI

- The design lists have been redesigned for better display of information, and to provide the Designer the ability to edit design elements directly in the design lists.
- A new toolbar icon to toggle the LotusScript debugger state also shows the state of the debugger (on/off).
- Java debugger support allows Designers to prepare design elements that contain Java code for subsequent debugging by using the checkbox provided for agents, web services, and script libraries. A remote Java Debugger (like Eclipse) can then be attached to the Notes Client JVMs in order to debug those design elements.
- There is a new dialog box available (Tools-Java Debugging Preferences) to set required variables for Java debugger support.
- New design element to create a web service.
- Agents can now be enabled for Agent Profiling and the results of the profiling can be viewed from the Designer.

## Domino Web Access

- A new Domino Web Access client template (dwa7.ntf) is available to provide new features in a concise user interface for the browser.
- Mail threads can be viewed while reading mail, or from the Mail Threads view.
- Users can sign, send, and read S/MIME messages.
- Users can create their own personalized Stationery, which can be used for their mail messages.
- Users can import country-specific holidays into their calendar.
- The Instant Messaging awareness integration more closely mirrors the Notes client awareness features.
- The "IBM Lotus Instant Messaging and Web Conferencing Connect for browsers" client is integrated as the default Instant Contact List manager.
- Productivity enhancements including:
  - Single-click Followup support
  - Quick Mail Rule support
  - Ability to forward any Domino Web Access object in a message
- Mozilla-specific improvements including:
  - Drag and drop support
  - Offline support for scheduled synchronization
- Administrators can prohibit access to attachments in Mail, Calendar, and Scheduling events (via the Domino Web Access server configuration document).
- Administrators have a Browser Cache Management option to support IE browser cache scrubbing (via the Domino Web Access server configuration document).
- Administrators can configure the Domino Activity Logging to tracking Domino Web Access requests and usage.

### **Lotus Domino Access for Microsoft Outlook**

IBM Lotus Domino Access for Microsoft Outlook allows Microsoft Outlook users to use many of the Domino/Notes mail, address book, calendar, and scheduling functions over a Domino server (instead of Microsoft Exchange) including:

- Changing the owner of their mail database
- Changing their password in Domino Access for Outlook
- Setting up user security
- Customizing replication settings
- Setting up an out-of-office message
- Setting up their free time schedule
- Processing meeting invitations automatically.
- Users can sign, send, and read S/MIME messages.

### **Domino Server**

#### **Administrator**

- DB2 administration support<sup>1</sup> has been added, including:
  - A tool to enable Domino to run with a DB2 data store
  - An integrated API to allow DB2 users/passwords to be added
  - Support in the Status and Analysis panels
  - A tool to allow configuration of a connection document from DB2 to Domino
  - Ability to create and use Domino Access Views (DAVs) and SQL Query Views on some platforms
- Support for Domino Domain Monitoring (DDM) has been added, including:
  - A DDM administrative UI
  - The ability to combine information generated on one or more DDM-enabled servers into one database on another server.
  - A database probe that ensures a database(s) can be opened. Optionally, the database(s) can be checked for unused space and for user inactivity, according to configurable thresholds.
  - A database probe that monitors key locations in the database software layer (NSF/NIF), and generates events for errors that occur; because some errors occur naturally, an error exclusion list can be configured.
  - Directory probes that include checks for: the health of the LDAP task and associated user response, directory replication, directory indexing, NRPC and secondary LDAP search response times, directory aggregation of source-to-destination, scheduled aggregation for missed or long-running aggregations, availability of directories and secondary LDAP/Notes domains, and view/update LDAP serving reports.
  - Mail probes that include: verification of local mail routing by sending a message to a known destination and verifying its delivery, alerting the administrator to the number of inflight messages if the router cannot keep up with the mail flow, and alerting the administrator when too much mail is pending to a particular destination, or if mail to that destination is failing.
  - SMTP probes that: verify mail can be delivered to a SMTP recipient via a Delivery Status Notification (DSN) report, check the SMTP task by verifying the processes threads, and verify protocol requests by connecting to the appropriate port and performing a minimal protocol-specific conversation.
  - Replication probes that check for: replication errors, for databases which have not replicated according to their configured schedule, for last successful replication, and for replication conflicts, including doclinks to the replication conflict documents.
  - Security probes that include: verification of a database ACL against a pre-determined configuration, and a check for inconsistencies in security configurations across multiple servers based on a "gold standard" set of configuration values.

- Agent probes that report total number of agents run, agent security errors, time-out errors, agents disabled by the Design Update task, full-text operations performed against non-indexed databases, CPU usage, memory usage by LotusScript and Java agents executed by Agent Manager and HTTP, and agents that run long or start late.
  - Integration of the Tivoli Autonomic Monitoring Engine (TAME) into Domino, which provides event reporting capabilities to other Tivoli Interfaces (i.e., Tivoli Enterprise Console), and which provides a framework for third-party Resource Module plug-ins to evaluate/report on Domino and OS resources.
  - Domino Resource Modules, built for Domino TAME, can report CPU, memory, disk, and network utilization statistics. The resource modules are configured with and report to DDM interfaces, and to Tivoli Enterprise Console<sup>2</sup>.
- Ability to write status bar history to a log file
  - Ability to suppress the Roaming User Upgrade prompt
  - The new Domino Web Administrator now supports Mozilla browsers.
  - Three new event notification methods which are programmable via LotusScript, batch language, Java, C, etc.
  - An enhanced Message ID feature allows a message ID to be prefixed to console messages, via the Notes.INI settings Display\_MessageID=1, and Display\_MessageSeverity=1.
  - The Administration process will no longer automatically revert name changes and will require that the administrator either approve or reject the name change reversion. For additional information about this feature, please see "AdminP - Rename Reversion Approval" in these release notes.

## DB2

- Support for DB2<sup>1</sup> data store is introduced with Domino 7. For information about this new feature, please refer to the Domino 7 Administration Help document.

## Directories

- Aliases have been added. An alias is an entry in an LDAP directory which points to another entry in the directory; on a search request the derefAlias protocol element specifies whether to dereference the alias to the entry it points to, or not. For example, specifying an alias of "cn=Bruce Kent,o=ACME" as the base and "derefAlias=Always" on a search request returns the entry the alias points to, cn=Bruce Kent,ou=Boston,o=ACME. The Domino LDAP service supports limited alias dereferencing for LDAP search requests.
- The Domino 7 LDAP service now supports Universal Notes IDs (UNID) through 32-character values of the new "dominoUNID" operational attribute.
- LDAP searches have been enhanced to work with IBM Workplace products that use the WebSphere Member Manager (WMM) service to access user/group objects.

## Install

- Enhancements to Smart Upgrade include:
  - Detaching kits in the background, to prevent time lost to a non-working client
  - Failover from a shared (network) upgrade kit to another server's attached kit
  - If clustered, use of a cluster mate if the first server is unavailable
  - Prevent excessive server load by limiting the number of downloads from a single server
  - Notification to administrators, via a mail-in database, of the Smart Upgrade status by user/machine (Success, Failed, or Delayed)
  - Provisioning of Smart Upgrade Tracking database
- ISMP - a new Java-based installer for Windows from InstallShield. For additional details, please visit <http://www.installshield.com>.

**Java**

- A new version of Java; JVM 1.4.2.
- Ability to remotely debug Java code (agents, script libraries, and Web previews) in the Notes client.

**LEI**

- Enterprise failover support in the Domino cluster environment is provided, so that if one server in a given implementation fails, activities continue processing on secondary, or subsequent, servers.
- The LEI Administrator incorporates new functionality such as Lotus Instant Messaging and Web Conferencing awareness, and form-based connection testing.
- Ability to control how dependent activities are run, based on the results of the calling activity.
- Ability to have Data Management activities that use Notes connections to run under different Notes IDs.
- Domino remote script debugging will now be able to debug the scripts used in Scripted Activities.
- Scripted Activities now record the connections used by the scripts, providing improved servicability.
- LEI, DECS and the LSXLC are now fully integrated into Domino's NSD services.
- LEI scheduling dexterity is now improved, with better handling when you need to "RESTRICT TO SCHEDULE".
- LEI Connection documents let you directly test your connections for validity.
- Virtual Documents now properly handle backend update and deletion synchronization

**Mail/Messaging**

- Private whitelist filters for SMTP connections
- Private blacklist filters for SMTP connections
- DNS whitelist filters for SMTP connections
- The new delivery option preference default for "Do not expand personal groups" is customizable.
- Stop processing action available for mail server rules
- Ability to create and add message disclaimers to email messages

**Network**

- IPv6 protocol support has been upgraded to include additional platforms and services<sup>1</sup>.
- CIDR format now supported in IP address pattern strings
- IOCP support in Linux Intel
- New configurations of SPX are not supported for Domino 7.
- Private blacklist/whitelist filters for SMTP connections; DNS whitelist filters for SMTP connections

**Performance**

- An internal API gathers CPU times for the Domino Domain Manager.
- CPU utility and performance statistics are gathered and analyzed using an improved process.

**Policies**

- New Mail policy settings document
- New client policy lockdown feature allows you to specify which policy settings can be modified by end users.

## Programmability

- New formula function @PolicyIsFieldLocked
- New formula command @Command([DiscoverFolders]) will bring up a dialog showing all folders the current document is within.
- New @function: @IsEmbeddedInsideWCT to determine if Notes is running embedded within a WCT rich client
- New @function: @DbBuildVersion to determine what server version there is for a database
- New @functions: @DB2Schema and @IsDB2
- New properties and methods:
  - NotesAdministrationProcess.ApproveHostedOrgStorageDeletion (LotusScript) and AdministrationProcess.approveHostedOrgStorageDeletion (Java)
  - NotesDatabase.GetModifiedDocuments (LotusScript) and Database.getModifiedDocuments (Java)
  - NotesDocumentCollection.UntilTime (LotusScript) and DocumentCollection.getUntilTime (Java)
  - NotesDOMDocumentNode.CreateAttributeNodeNS, CreateElementNodeNS, GetElementsByTagNameNS (LotusScript)
  - NotesDOMElementNode.GetAttributeNodeNS, GetAttributeNodeNS, GetElementsByTagNameNS, RemoveAttributeNS, SetAttributeNodeNS, SetAttributeNS (LotusScript)
- Web services (provider entities) can be created as LotusScript or Java design elements and accessed through a Domino server.
- Performance Profiler for Java and LotusScript Agent and Web Services.
- Integration of a new version of XML parser.

## Security

- Domino 7 supports the use of 1024-bit RSA and 128-bit RC2 Notes keys.

## Serviceability

- Autonomic Diagnostic Collection - This feature is used to evaluate call stacks that are generated from a Notes Client or Domino Server crash via the Automatic Diagnostic Collection feature that was first introduced in Release 6.0.1 of Notes and Domino. It adds to the functionality of the Automatic Data Collection feature by analyzing the call stacks that are located in the Fault Report mail-in database and evaluating to see if there are other instances of the same problem.
- When using the automatic diagnostic collection tool to gather information about server crashes, the server is now first checked to see if it is being run under the Domino Controller and, if so, uses the Controller logs. If not, the server is checked to see if console logging is enabled and, if so, uses the console output. Finally, data is extracted from log.nsf if neither the Domino Controller nor console logging has been set.
- Customers can configure what files (using wildcards) will be collected by the automatic diagnostic collection tool when it runs on clients or servers. This allows for the option to collect diagnostic files from other IBM products as well as third-party add-ins.
- When the "quit" or "restart server" command is issued to the server, and the server doesn't terminate in the allotted time, then the server will forcefully terminate and an NSD log will be generated before termination. The time limit is specified in the "Automatic Server Restart" section of the server document in the Basics tab; the default is 5 minutes. This time limit is the time that no shutdown activity occurs; when a process successfully terminates then the timer restarts. This feature can be disabled using the Notes.INI setting SHUTDOWN\_MONITOR\_DISABLED=1.

## Web Server

- DB2 management features are now available from Domino's Web Administrator client.
- Support for web applications to compress data sent to HTTP servers.
- The Web Administrator client works in Mozilla browsers (Mozilla 1.7.x or higher).
- JSP tags work in Portal.

## Footnotes

<sup>1</sup> These features do not apply to i5/OS for the current release.

<sup>2</sup> For the current release, Domino Resource Modules built for Domino TAME can report CPU and memory utilization statistics on z/OS; and CPU, disk, and network statistics on Domino for Linux on zSeries.

Domino Administrator Client, Domino Designer, Domino Server

## DB2 feature in Domino 7 released with Limited Availability Domino 7 with DB2 - Limited Availability

Domino 7 with DB2 is released with Limited Availability; as such, it is not available for general usage, but is provided for evaluation purposes only. For more information about the Limited Availability program and other important information on this topic, see the URL <http://www.ibm.com/lotus/nsfdb2>.

To enable Domino 7 with DB2, you'll need the DB2 key for Domino, and DB2 Access for Domino.

- To enable DB2 functionality within Domino, add the DB2 key to the Domino Program directory. The default Domino Program directory on Microsoft Windows is C:\Program Files\Lotus\Domino; the default Domino Program directory on IBM AIX is /opt/lotus/ibm.
- To view and manipulate Notes data through DB2 using the DB2 Access View (DAV) and Query View features introduced in Domino Designer 7, download "DB2 Access for Lotus Domino 7".

Domino Web Access

## New Features in Domino Web Access 7

This release note provides a general overview of new features in Domino Web Access 7.0. For additional information about these features and other updates to the Domino Web Access documentation, see the Documentation Updates - Domino Web Access section of these release notes, or the Domino Web Access 7 help.

**Disable drag and drop** -- Users can set a Calendar preference to disable drag-and-drop and in-place editing, in their Calendar. This feature is documented in the Domino Web Access 7 help.

**Prohibit access to attachments** -- Domino administrators can use a new NOTES.INI setting to prohibit access to attachments in calendar and scheduling documents, online meetings, and e-mail. For more information about this feature, see the Domino Administrator 7 Help topic "Editing the Configuration Settings Document for Domino Web Access."

**Instant Messaging** -- The integrated Instant Messaging feature is more robust and more closely mirrors the Notes client awareness features. Name awareness has been added in views such as Contacts, Calendar and Scheduling, and meetings, with right-click menus available for each of the views. New in 7.0, Domino Web Access users will be able to use the Lotus Sametime Connect 6.5.1 contact list manager, and will be able to share contact lists with the Notes client. For more information about this feature, see the release note "Instant Messaging enhancements in Domino Web Access" in the Documentation Updates - Domino Web Access section.

**Import Corporate holidays** -- Through preferences, users can import holidays into their calendar using predefined sets that are country specific. This feature is documented in the Domino Web Access 7 help.

**Mail Threads** -- Users can now view mail threads, which groups a message together with the responses to it. Mail threads can be viewed from the Mail Threads view, or when reading mail. To view mail threads when reading mail, users set a Mail · Display user preference. This feature is documented in the Domino Web Access 7 help.

**S/MIME support** -- S/MIME is now supported in Domino Web Access. For more information about S/MIME support in Domino Web Access, see the release note "S/MIME support in Domino Web Access" in the Documentation Updates - Domino Web Access section.

**Stationery** -- Users can create stationery that they can re-use for their mail messages. The stationery can include text and graphics and other optional information, such as mail delivery options. Users can create standard stationery that includes recipients, which is useful for messages that routinely get mailed to the same group of people. They can also create personal stationery that can include personalized text or graphics. This feature is documented in the Domino Web Access 7 help.

Notes Client

### **Notes Application plug-in for IBM Workplace Managed Client**

The Notes Application Plug-in is included as part of the Notes / Domino 7.0 release, and is designed to work in conjunction with the IBM Workplace Collaboration Services Managed Client. The IBM Workplace Managed Client is a new offering that utilizes IBM Workplace Client Technology. For purposes of these Release Notes, IBM Workplace Managed Client will be referred to simply as the "managed client" below.

#### **System Requirements**

In addition to having the IBM Workplace Managed Client 2.5 installed, the following are required:

- IBM Lotus Notes 7 Client for Windows, installed on the same machine as the managed client
- Minimum System Memory 512 MB (recommended 1 GB)
- Diskspace of 275MB

#### **Configuration Instructions**

- Install IBM Workplace Managed Client 2.5.
- Install IBM Lotus Notes 7 Client

#### **Operating Instructions**

- The Notes applications are accessed via the managed client by selecting from the Switcher Bar and selecting the Notes Applications icon.
- The Notes Application component provides access to your Notes Applications which can be selected through the Notes Application navigator. Initially the application displayed will be the default page configured for the Notes client.
- Once the Notes Application is active the menus available to the Notes Client will also be available from within the managed client while the Tabbed Pages are showing Notes content.

#### **Known Limitations and Problems**

1. Any settings you have set in Notes will also be set in the managed client. So, for instance, if you have Single Sign On turned on in Notes, you will not be prompted for a login to Notes when switching to the Notes Application component. However, if you have it turned off, you will be asked to sign into Notes. This holds true for the IBM Lotus Sametime client as well.
2. In general preference settings can be modified from within Notes Plugin, however some items such as Toolbar modifications will not have any effect until the Notes Client is utilized as the toolbars are not available within the managed client.
3. Notes Auto Logout is not putting up the Logout screen in the managed client. The databases are locked and cannot be edited without a password, but the top database is visible.

4. If a database is open in Notes, and you try to open the same one in the managed client, it will not open. However, if you open it first in the managed client and then try to open the same db in Notes, Notes will bring the managed client to the foreground to display the database.
5. If you have Designer opened and you open a database in the managed client, you cannot close Designer until the Workplace client has been closed.
6. If you have the managed client open, as well as Notes and Designer, selecting to close Designer will actually close the Notes client. Designer will remain open until the managed client is closed.
7. The Startup folder bookmarks are not available from the Notes Application navigator.
8. Some Accelerator keys that move the main window are not available when accessing Notes applications in the managed client.
9. When clicking on the 'X' to close a document, if the document needs to be saved, the tab disappears and then you are prompted to save your document. If you are closing several documents, you will not be able to tell which document is prompting you to be saved. If you click Cancel, the tab will be restored and will allow you to close it again.
10. Hitting the F10 key with a Notes database open and then clicking on the top-level menu will cause the managed client to hang. You must restart the managed client to recover.
11. Clicking on a database bookmark will sometimes bring up the "Search for Database" dialog. However, if you right-click on the bookmark, select "Open Replica," and choose your database from there, it will open correctly.
12. If the managed client crashes while you are working on an autosave-enabled document, you will be prompted to recover the document when the Client is restarted. Even though the document does not display when you click on it and select Recover, it is there in the autosave database. You can check this by opening the autosave database.
13. Double-clicking on an attachment from a document that is in the Autosave directory will display the error message "Note item not found" and the managed client will hang.
14. When working with an outside application, such as IE, if you give focus back to the managed client by clicking on the File menu in the Notes Application view, your application could hang. When giving focus to the managed client, we recommend you click on the title bar or within a view and then select the menu.
15. When using the IBM Workplace and the managed client with Calendaring & Scheduling Alarms enabled, opening a calendar entry from the Alarm dialog may result in the dialog having incorrect focus. In some situations, the dialog will have focus instead of the entry. You may also encounter the Alarm dialog disappearing behind the Workplace application after editing the entry without first dismissing the dialog.
16. When using IBM Workplace and the managed client with Calendaring & Scheduling Alarms enabled, you may encounter the error "entry not found in index" or "The document specified by the link cannot be located within the linked-to database" if you open the Calendar from the Workplace - Today Welcome page prior to receiving the Alarm.
17. When using IBM Workplace and the managed client with Calendaring & Scheduling, if the meeting chair reschedules a meeting using the drag and drop method, the meeting will not appear on the calendar at the new day/time until the view is manually refreshed with F9.
18. When using the managed client, and you have Lotus Notes installed with the Calendaring & Scheduling Alarms enabled, you may see a situation when the perspective is set to another IBM Workplace application (like Messaging) and the Lotus Notes Alarms dialog displays. Opening the C&S entry from the Alarm dialog will display the entry in the preview frame of the Messaging perspective.
19. When using IBM Workplace and the managed client with Calendaring & Scheduling Alarms enabled, the IBM Workplace application is not restored from the minimized state when you receive an Alarm dialog and attempt to open the calendar entry from the dialog.
20. If you cancel out of the password prompt while opening Notes from within the managed client, you must restart the managed client in order to be able to reopen Notes.
21. If you cancel out of the password prompt while opening Notes from within the managed client and then select File - Database - Open, Notes crashes and you must restart the managed client.
22. If Notes or the managed client crashes or hangs and you need to shut down the managed client, when you restart and try to open Notes you may get a message stating that Notes cannot be displayed because it is not installed. If this occurs, shut down the managed client and restart it again. Most times Notes will open.
23. There is an accelerator conflict when using Notes within the managed client. In the Notes client, pressing Alt+E+D **deselects** any selected files in a view. However, when using Notes within the managed client, pressing Alt+E+D (+ENTER) **deletes** any selected files in a view. To deselect selected files while using Notes within the managed client, press Alt+E+D, and then press D again, followed by ENTER.

Domino Administrator Client

## Server.load new features in R7

Following are the new Server.load features introduced in Domino 7. Please see the Domino Administrator Help database for complete information on these new features:

### 1. New Server.load script commands

#### **SetReplID**

Sets the database replica ID.

#### **DBCclose**

Closes the open database.

#### **CheckForNewMail**

Checks for new mail on the specified mail database.

#### **NewReplicateDB**

Creates an empty replica of a database

### 2. Workload data rollup feature

The Server.Load workload data rollup feature allows test data from a group of test drivers and a SUT to be combined into a single datafile for analysis.

### 3. Server authentication now optional

The field "Server to receive Console Commands" in the Server.load metrics window can be left blank for workloads & scripts that do not need to authenticate with a server, such as the new Workload Data Rollup script. Also this allows scripts such as internet based mail to be run without NRPC authentication, so you could create a custom script that uses SMTP and POP3 against any type of mail server, such as an IBM Workplace mail server.

### 4. Collection of per-command response times in Server.load

NB\_Collect\_Response\_Times in the test driver's notes.ini will enable output of per command response times. The file will be in the **resultsdirectory** and will have the name RespTime\_OutFile-#, where # is the driver number.

To enable collection of per-command response times add the following settings to the client driver's notes.ini file:

```
NB_Collect_Response_Times=1  
RESULTSDIRECTORY=Z:\
```

To disable collection of per-command response times set NB\_Collect\_Response\_Times=0 or remove the ini setting.

### 5. Agents and files in namagent.nsf have been updated for new workloads.

See the Using This Database document in namagent.nsf

### 6. Domino SSL in the R6IMAP workload

To enable SSL in the R6IMAP workload add the following setting to the client driver's notes.ini file:

```
NB_SSL_OPTION=USE_SSL
```

To disable SSL in the R6IMAP workload remove the notes.ini setting. **Issue: for this release you must put a space in the Server.load script variables window for this variable if you are not using SSL.**

The R7 Server.load client can be used to drive an SSL R6IMAP workload on a Domino R6 server.

## New enhancements

Domino Server

### AdminP - Rename Reversion Approval

The Administration process will no longer automatically revert name changes and will require that the administrator either approve or reject the name change reversion.

In order to provide uninterrupted access to users' databases while a name change is in progress, there is a period of time where both the old and new names will be allowed access to the systems and databases. This period of time is, by default, 21 days, but may be defined by the administrator when the rename is performed (from 14 to 60 days). After this time period is expired, the old name will no longer be supported.

However, there are some situations where the old name must remain active and the new name abandoned; for example, when the user is unable to accept the name change because that user may be out of the office for an extended period of time (e.g., maternity leave). In a case like this, the name change initiated by the administrator would need to be reverted, in order to provide continued access to the user whose name was being changed. Prior to the new approval process, the reversion was performed automatically after the expiration time had expired. Now, with the addition of the new approval process, the capability to approve or reject a name change reversion is provided to the administrator.

This feature mirrors the approval process activated when the user rejects a name change, and is described in the Domino Administrator Help documentation.

Domino for i5/OS

### Domino 7 plug-in for HTTP Server (powered by Apache) and V5R3

Customers can take advantage of the HTTP Server (powered by Apache) to forward HTTP traffic to their Domino 6 and 7 servers. This is an alternative to exclusively using the built in HTTP server provided in Domino. Refer to the Lotus Domino 7 for i5/OS HELP (Installing and Managing Guide) and the Web site <http://www.ibm.com/servers/eserver/series/domino/apache.html> for more information.

Domino Administrator Client, Domino Server

### Domino Console - Ability to connect through a firewall

The Domino Console in Domino 6.x used to work only within an intranet scope for connecting to the Server Controller. In Domino 7, administrators are now able to connect to the Controller from outside a firewall. On the controller end, you need to run a simple program, "service binder", and the Controller has to 'advertise' the service on the binder. This service binder program runs on a machine which is outside the firewall of a company, and it listens on a port for Domino Console requests to connect to a Controller which has published services. The binder then connects both Console and Controller if the services match.

In the current release, there isn't a separate installation for this binder program on a new machine, however, you may follow the instructions below, and copy these files from a machine where you have Domino or Notes installed.

#### Installation and starting binder program:

You need to copy the following files from the Domino Installed machine to the machine where service binder will be running.

- Create a directory on the binder machine.
- Copy the following files which ever way you prefer (FTP, ZIP, or TAR).
  - sbinder.exe (sbinder on UNIX)
  - dconsole.jar
  - jvm and all its subdirectories
  - notes.ini ( a dummy file)
  - startup (only for UNIX)
  - luname (only on UNIX)
  - execbin (only on UNIX)
- To run the program issue the following:
 

```
sbinder -ip <IpAddress> -port <portnum>
```

parameters are options. Default port is 2055.

**Controller end operations:**

Start the Controller and Console on the server box where you will define services (Edit -> Manage Services should bring the Edit services dialog up). Define the binder machine name and port on which it will be listening, then also give the SOCKS proxy hostname and port, if they are enabled, in your environment. Next, define a service by clicking the "New" button; a new Edit Service dialog should pop up. Define a service and enable it, if you want to start the service (the binder machine should already be running for this to work). Controller then sends the service information to the binder based on the Binder service and SOCKS proxy enabled.

**Console end operations:**

Start the Console on the machine from where you want to connect a Controller outside the firewall; File -> Open Server(Firewall) should bring up an 'Open server through firewall' dialog. Enter username, password, binder machine name, binder port, and service name. Enter proxy name and proxy port if your environment is using a proxy server. The Console and Controller should now be connected.

Domino Administrator Client, Domino Server

**LDAP special character handling**

**Note:** for clarity, punctuation marks discussed in text are followed by their proper names in parentheses

**Introduction**

Release 7.0 includes a set of fixes for the conversion of a distinguished name (DN) between LDAP syntax and Notes syntax. A simple example of a conversion from LDAP to Notes is `CN=Mary Smith,OU=West,O=Acme -> CN=Mary Smith/OU=West/O=Acme`. More complex DNs get tricky to convert back and forth correctly, and previous Domino releases did not handle all of them correctly or consistently. For example, the LDAP DN `CN=This\+That,OU=West,O=Acme` should be converted to the Notes DN `CN="This"+"That"/OU=West/O=Acme`. However, previous revisions did not correctly escape the + (plus) char with double-quotes, resulting in a Notes DN (`CN=This+That/OU=West/O=Acme`) that appears to have a multi-valued RDN.

The representation of an LDAP DN is defined in RFC 2253. Notes DNs are (more loosely) defined in the topic "Hierarchical naming for servers and users" in the Installation section of the Lotus Domino Administrator 7 Help. Conversions between the two are described below.

These fixes are not enabled by default in Domino 7. Administrators must enable them by including the line `DN_PARSE_REV=2` in the server's Notes.ini file and then restarting the Domino server.

**Important:** The fixes for special character handling should only be implemented when satisfied that no backward compatibility issues exist. These are described in more detail below.

**Common DN conversion scenarios**

The most common contexts in Domino where name conversion occurs are the Domino LDAP server, name lookups to LDAP directories configured in DA (i.e.NAMELookup->LDAP gateway), and LTPA single sign-on authentication. The Domino LDAP server must convert an LDAP DN it receives from a client to its Notes equivalent in order to save it in the Domino directory database (that is, the Add operation) or compare it to other names in the directory. It must also convert from Notes to LDAP when returning search results. When the Domino server or some server task (for example, the mail router) searches for directory information in an LDAP directory, the gateway must convert results to Notes DNs. This is typically done when searching for mail recipients, authentication credentials, and ACL groups. LTPA tokens typically have the name encoded in LDAP syntax, so when receiving a token for authentication, Domino must convert the DN to Notes. If Notes is the generator of an LTPA token it typically converts the person's DN from Notes to LDAP and stores it in the token.

Also, when dealing with multi-directory scenarios that include person or group entries that reside in both Domino and LDAP directories, it's important to understand in what contexts a Notes DN is expected and in what contexts an LDAP DN is expected. The general rule is that Notes DNs are used in Domino database fields (for example, the Fullname field or any other names field) or ACLs, and LDAP DNs are used in LDAP directory attributes. In scenarios like this, DN conversion between Notes and LDAP is necessary. For instance, when entering the DN of an entry that resides in an LDAP directory into the ACL of a Domino database (or secondary value of Fullname), you need to convert it to its Notes DN equivalent. Or, when using the Notes DN mapping feature in Directory Assistance, you should convert the Notes DN to its LDAP equivalent and use that value in the specified attribute of the LDAP directory.

### Converting DNs between LDAP and Notes

The fundamental transformation that must be made is substituting the , (comma) char used to separate name components in an LDAP DN with the / (forward-slash) character used for the same purpose in a Notes DN (as in the first example above), and vice versa. Most other characters in the DN are used as is.

However, as defined in RFC 2253, certain characters must be escaped with a \ (back slash) character when used in a name component attribute value (attrValue). For example, the comma character must be escaped since it is also used as a name component separator. So, a correct LDAP representation is `CN=Warren\+Rabbit,OU=East,O=Acme`, not `CN=Warren + Rabbit,OU=East,O=Acme`. When this name is converted to Notes syntax the plus character must be escaped in the Notes style by surrounding it with double-quote characters (see the second example above). However, not all LDAP-escaped characters need to be Notes-escaped. See the table below for other characters that must be escaped in an LDAP DN, and which must be escaped with double-quotes when converting to Notes.

In addition, the forward-slash and @ (at-sign) characters must be escaped when used in a attrValue of a Notes DN, otherwise the canonicalization and abbreviation of these names will fail. So, the correct representation is `MAIL=bob"@www.acme.com/OU=South/O=Acme`, not `MAIL=bob@www.ibm.com/OU=South/O=Acme`. When this name is converted to LDAP syntax, the at sign is not escaped, which results in `MAIL=bob@www.ibm.com,OU=South,O=Acme`. This is also shown below.

The following table is a helpful reference for determining:

- which characters require LDAP escaping
- which characters require Notes escaping
- how to convert an LDAP escaped char to its Notes equivalent
- how to convert a Notes escaped char to its LDAP equivalent
- conversion differences with past revisions of Domino

Desired character in attrValue	LDAP DN	New Notes DN (in Domino 7 servers with DN_PARSE_REV=2 enabled)	Old Notes DN (prior to Domino 7)
=	\=	"="	=
+	\+	"+"	+
"	\"	""	"
\	\\	"\"	\
/	/	"/	/ (prior to Domino 6.5.4) "/" (starting with Domino 6.5.4)
@	@	"@"	@ "@ (hotfix ???)
;	\;	;	;
>	\>	>	>
<	\<	<	<
#	\#	#	#
;	\;	;	;

Here are some more conversion examples:

LDAP DN	New Notes DN	Old Notes DN
cn=This\=That,o=Acme	cn=This"="That/o=Acme	cn=This=That/o=Acme
cn=This\+That,o=Acme	cn=This"+"That/o=Acme	cn=This+That/o=Acme
cn=This\"That,o=Acme	cn=This""That/o=Acme	cn=This"That/o=Acme
cn=This\\That,o=Acme	cn=This\"That/o=Acme	cn=This\That/o=Acme
cn=This/That,o=Acme	cn=This"/"That/o=Acme	cn=This"/"That/o=Acme (w/6.5.4)
cn=This@That,o=Acme	cn=This"@That/o=Acme	cn=This"@That/o=Acme (w/hotfix ???)
cn=This\,That,o=Acme	cn=This,That/o=Acme	cn=This,That/o=Acme
cn=This<That,o=Acme	cn=This<That/o=Acme	cn=This<That/o=Acme
cn=This>That,o=Acme	cn=This>That/o=Acme	cn=This>That/o=Acme
cn=This\#That,o=Acme	cn=This#That/o=Acme	cn=This#That/o=Acme
cn=This\;That,o=Acme	cn=This;That/o=Acme	cn=This;That/o=Acme

Other conversion problems that have been resolved with this set of fixes include:

- Stricter validation of LDAP and Notes DN's, such as:
  - Unescaped special chars
    - e.g. cn=this<that,o=Acme
  - Illegal/non-ascii chars in attrTypes
    - e.g. ltwo=foo,o=Acme
    - big\$=spender,o=Acme
  - "#" hexstring attrValues where one or more of the hexpairs in hexstring is illegal
    - e.g. cn=#hij,o=Acme
  - Illegal backslash escaped attrValues
    - e.g. cn=not\YY right,o=Acme
  - Other bad syntax
    - e.g. cn=thats,ou=+just,#ou=not,oi=right
- OID style attrTypes
  - e.g. 1.2.3.4.5=foo,o=Acme
  - oid1.2.3.4.5=foo,o=Acme
- attrValues encoded as "\" hexpair
  - e.g. cn=foo\41bar,o=Acme
- attrValues encoded as "#" hexstring
  - e.g. cn=#414243442C31323334, o=Acme

### Enabling DN\_PARSE\_REV=2

In order to correctly perform round-trip conversion of DN's (i.e. LDAP->Notes->LDAP and Notes->LDAP->Notes), it was necessary to change the behavior for how certain escaped characters are handled. As shown in the tables above, when converting from LDAP the = (equals), (comma) + (plus), " (double-quotes), and \ (back slash) characters are escaped by surrounding them with a double-quote char in the resulting Notes DN. So, a server with DN\_PARSE\_REV=2 enabled will convert the LDAP DN cn=George\+Abraham,cn=users,dc=acme,dc=com to the Notes DN cn=George"+"Abraham/cn=users/dc=acme/dc=com. A server without this Notes.ini variable will convert the LDAP DN to cn=George+Abraham/cn=users/dc=acme/dc=com, which will cause problems when attempting to convert it back to LDAP, as the parsing code can not determine whether the back slash used to escape the plus sign is a separator for a multi-valued RDN or just part of the attrValue. Unfortunately, this can result in incompatibility between servers that have DN\_PARSE\_REV=2 enabled and those that don't. It is safe to enable DN\_PARSE\_REV=2 if:

- There are no DN's that contain the = (equals), + (plus), " (double quotes), or \ (back slash) characters in attrValues, or
- All DN's stored in Domino directories that contain these chars in attrValues are stored in the new Notes syntax. In this case, DN\_PARSE\_REV=2 should be enabled on all 7.0 servers.

When DN\_PARSE\_REV=2 is enabled, the DN's specified in LDAP protocol operations will be subject to stricter syntax checking. This may result in invalid DN syntax errors being returned by the Domino LDAP server. Correct the DN specified on the request and retry.

### Known caveats and issues

- These characters should be avoided in DNs: \ (back slash) and ; (semicolon).
- These characters should not be used in DNs that begin with CN= : = (equals) and " (double quotes). However, other LDAP identifiers, such as UID and email will work.

For example, this will not work: `CN=this\=that, o=Acme`

This will work: `UID=this\=that, o=Acme`

- The use of the + (plus) and @ (at sign) in DNs will only work in an all-Domino 7.0 server environment.
- If the > (greater than) is used in a DN, the derived RDN is not correct. For example, if the original DN is `cn=user>greaterthan,o=abc`, the derived RDN is `user/greaterthan`, which is wrong.
- Avoid using < (less than) and > (greater than) together in a DN.
- LDAP searches for attributes of type DN are now stricter with `DN_PARSE_REV=2`, consequently, the search filter, `"secretary=name*"` will not work. The filter must look like this: `"secretary=cn=name*"`.
- The Domino LDAPsearch.exe tool does not handle ; (semicolon) and " (double quotes) in base-level searches.

DNs that use the . (comma), # (pound) , and / (forward slash) have no known caveats..

Notes Client, Domino Server

### Rooms and Resources Manager

The Rooms & Resources (R&R) functionality in Domino 7 has been redesigned with the primary purpose of preventing overbookings of rooms or resources. There is a new Domino 7 server task, the Rooms & Resources Manager (RnRMgr), that is responsible for both processing all reservation requests and updating busytime for room and resources. As a result, there have been some changes made to the previous Rooms & Resources (R&R) experience that Administrator should be aware of.

- Room and resource reservations will not be processed unless the RnRMgr task is loaded on the server where the R&R database resides. To ensure that the RnRMgr task is loaded on server startup or restart, it should be added to the `ServerTasks=` line of the servers NOTES.INI file if it is not already there. To manually load the task use the "load rnrmgr" console command.
- The Schedule Manager (SchedMgr) task is no longer responsible for updating busytime for rooms or resources. All console commands previously used by SchedMgr can be used with the RnRMgr. For example, to have the current busytime data for Room A/Floor 2/Site1 displayed on the console simply issue the console command "tell rnrmgr show Room A/Floor 2/Site1".
- The Administration Server setting for each R&R database needs to be set before any administrative changes can be made to it. This value MUST be the same as the "Server" setting for any pre-existing rooms or resources in the database. If the value is different, autoprocessing of requests for new rooms or resources may experience sporadic delays due to conflicting data in the Name & Address Book.

If users book conference rooms via Calendar & Scheduling (i.e., their mail file), they will see no difference in booking rooms or resources. Users request the room, and the R&R system will autoprocess the request and respond as it did before. If users book conference rooms directly in a Conference Room database, however, they will see some slightly different behavior than they may have been used to in the past. The views are still the same, but there are now several new icons:

**A green checkmark icon** indicates that a reservation request has been processed and accepted by RnRMgr.

**An hourglass icon** indicates a pending reservation request for the time shown in the view. This is a request that the RnRMgr has yet to process, or that requires some form of Owner intervention first. The majority of Hourglass icons represent a pending request; users should not see many of them since RnRMgr is seeing and processing requests within a few seconds of them being written to the Conference Room database.

**A red "X" icon** indicates a rejected reservation request for the time shown.

When an owner accepts a room reservation for a room that is "Waiting for Owner Approval", the accepted request may remain in the Waiting for Approval view for a few seconds until the Rooms & Resource manager has time to process the request. If this happens, the "Requested by" field will change from the name of the original requestor to the name of the owner, and remain that way until the system processes it.

Prior to Domino 7, room reservation processing occurred in several places such as the Router or the R&R template. This kind of distributed decision-making had some drawbacks; the biggest being that it was possible for multiple users to reserve the same room at the same time, for different meetings. For Domino 7, the R&R system was redesigned so that it would prevent overbookings and improve the overall user experience.

The biggest change to the direct booking experience is a change to the way directly booked reservation requests are handled. Before RnRMgr, if a user managed to save their new Reservation request in the R&R database, they had the expectation that they had reserved the room, though this may not always have been the case.

Now, the user is able to save their request to the database only if there is no pre-existing conflict for the desired dates/times, but this does **not** mean that they have actually reserved the room. RnRMgr makes the final decision whether or not to accept or decline the reservation request, and the new icons are used to inform users of the current status of their reservation request.

Domino Server

### SSL Cryptographic Accelerators

Starting in Notes/Domino 7, the SECManipulateSC API function can be used to push the server's RSA keypair from an SSL keyring file onto a cryptographic token that supports PKCS#11. This will cause all private key operations involving the server key to be performed upon the token. This cryptographic token can be a traditional smartcard (which will result in terrible performance issues) or an SSL cryptographic accelerator that provides a PKCS#11 interface.

The only cryptographic accelerator that has been tested with Notes/Domino 7 is the Rainbow CryptoSwift eCommerce Server Accelerator PCI CS400 model 2.2.6a, using the PKCS#11 DLL installed to c:\WINNT\system32\Cryptoki22.dll with the PKCS11\_NO\_HWCHECK=1 Notes.ini variable set.

In Domino 7, the server's ID file must be smartcard-enabled in order for the PushKyrKey operation to succeed.

Here is some pseudocode to demonstrate the use of SECManipulateSC. As always, real code should check for and handle errors.

```
error = SECManipulateSC (SC_manip_GetVersion,
                        NULLSCMCTX,
                        NULL,
                        &Version,
                        NULL);

/* SC_manip_PushKyrKey was added in Version 5 of this interface. If Version is
not at least 5, then that operation will fail. */

/* Initialize the PKCS#11 context.
*/
SCMCTX Context = NULLSCMCTX;
error = SECManipulateSC (SC_manip_InitializeContext,
                        &Context,
                        NULL, NULL, NULL);

/* Set up the server's ID file
*/
error = SECManipulateSC (SC_manip_EnterIDFile,
                        &Context,
                        NULL,
                        &dwIDLLen,
                        ServerIDPath);
```

```

/* Unlock the smartcard
*/
error = SECManipulateSC (SC_manip_EnterPIN,
                        &Context,
                        NULL,
                        &dwPINLen,
                        PIN);

/* Note -- SC_manip_EnterPIN will use an external authentication path if it
exists. If the token doesn't support a protected authentication path,
SC_manip_EnterPIN will use the supplied PIN if one exists or generate a prompt if
a NULL or zero-length PIN was used. */

/* Smartcard-enable the server's ID file
*/
error = SECManipulateSC (SC_manip_SCEnableID,
                        &Context,
                        NULL,
                        &dwPwdLen,
                        ServerIDPwd);

/* Push the keyring private key to the token
*/
if (Version >= 5)
error = SECManipulateSC (SC_manip_PushKyrKey,
                        &Context,
                        NULL,
                        &dwKyrLen,
                        KyrPath);

/* Clean up
*/
SECManipulateSC (SC_manip_TerminateContext,
                &Context,
                NULL, NULL, NULL);

```

Domino Server, Domino for z/OS

### **zSeries hardware-assisted data compression for Transaction Log**

Domino 7 on the zSeries platforms (z/OS and Linux) can optionally exploit hardware-assisted data compression for transaction logging. With the option turned on, data written to the transaction log will be compressed using the zSeries CMPSC instruction instead of Domino software. If data is then accessed from the transaction log the Domino 7 zSeries server will use the appropriate technique (CMPSC instruction or Domino software) to decompress. Data in transaction logs that has been compressed using zSeries hardware-assisted data compression cannot be used on non-zSeries Domino platforms or pre-Domino 7 zSeries servers.

By default, hardware-assisted data compression for transaction logging is enabled. The feature can be disabled by starting the Domino server with "TRANSLOG\_HardwareCompress=0" set in notes.ini.

The CMPSC instruction requires less CPU cycles than Domino software to do the compression. Depending on the server workload, using the hardware-assisted data compression for the transaction logging feature can result in a CPU utilization improvement.

The Domino software to compress the transaction logs uses a more comprehensive technique to do the compression than the CMPSC instruction. Therefore, the storage required for transaction logs may be greater when the hardware-assisted data compression for the transaction logging feature is enabled.

## Backward compatibility

Notes Client, Domino Designer, Domino Server

### Differences in Java 1.3.1 and 1.4.x

There have been some changes made by Sun in the Java 1.4.x release that is included in Notes/Domino Release 7. These changes could affect the behavior of existing Java agents, applets, etc. in a Notes/Domino application. A complete list can be found at: <http://java.sun.com/j2se/1.4/compatibility.html#incompatibilities1.4>.

For example, as a result of the new focus architecture introduced in 1.4.0, the following incompatibilities were introduced:

- Focus traversal keys (in most cases this means the TAB key) are now consumed, which can cause problems if a program depends on a key listener being notified of these key events. Previously, AWT components saw these events and had an opportunity to consume them before AWT initiated focus traversal. To avoid focus traversal keys being consumed, use the following code:

```
component.setFocusTraversalKeysEnabled(false);
```

where component is the Component that is firing the key events. Focus traversal can then be handled manually. Alternatively, the code can use an AWTEventListener or KeyEventDispatcher to pre-listen to all key events. For more information, see bug 4650902.

- The default focus traversability for all components is now true. Previously, some components (in particular, all lightweights), had a default focus traversability of false. Note that despite this change, however, the DefaultFocusTraversalPolicy for all AWT containers will preserve the traversal order of previous releases.
- A request to focus a non-focus traversable (i.e., non-focusable) component will be denied. Previously, such requests were granted.
- Window.toFront() and Window.toBack now perform no operation if the window is not visible. Previously, the behavior was platform-dependent.

### Changes specific to Microsoft Windows:

- Window.toBack() changes the focused window to the top-most window after the Z-order change.
- requestFocus now allows cross-window focus change requested in all cases. Previously, requests were granted for heavyweights, but denied for lightweights.

Domino Administrator Client, Domino Server, Domino Web Access

### Obsolete Notes.ini variables

The Notes.ini variables listed below have been made obsolete; either because UI settings exist to enable the functionality or because the functionality is longer required:

Variable	Reason for obsolescence
LDAPAddress	In Domino 5.0.1a and subsequent releases, including the Lotus Domino 6 release and later, the LDAPAddress NOTES.INI variable is ignored. For Domino R5 servers and later, bind a Notes TCP port to a specific address, and then have the LDAP service use the Notes port.
namelookup_trust_dircat	Functionality enabled by the Directory Information setting "Trust the server based condensed directory catalog for authentication with internet protocols" in the Server document of the Domino Directory server.
NWNDSPASSWORD	IPX/SPX is not supported as of Domino 7.0
NWNDSUSERID	IPX/SPX is not supported as of Domino 7.0
Shared_Mail	
WebAuth_AD_Group	Functionality enabled by the Active Directory search filter option, which allows for searches of Active Directory groups
iNotes_WA_Chat	Functionality enabled by the Domino Web Access Instant Messaging setting "Instant Messaging features" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_LiveNames	Functionality enabled by the Domino Web Access Instant Messaging setting "Online awareness" in the Configuration Settings document of the Domino Directory server.

Variable	Reason for obsolescence
iNotes_WA_NoLocalArchive	Functionality now enabled by the Domino Web Access setting "Local Archiving" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_OOO_RunOnWeekends	This setting was used to run the Out-of-Office agent for mail databases based on the inotes5.ntf template only, and is not necessary for iNotes6.ntf or DWA7.ntf mail templates. The iNotes5.ntf mail template is not an available in Domino 7.
iNotes_WA_SametimeJavaConnect	Functionality enabled by the Domino Web Access Instant Messaging setting "Prefer Sametime Java Connect for browsers" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_SametimeServer	Functionality enabled by the Domino Web Access Instant Messaging setting "Set an Instant Messaging server hostname for all DWA users" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_SametimeToken	Functionality enabled by the Domino Web Access Instant Messaging setting "Allow secrets and tokens authentication" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_STLinksLocal	Functionality enabled by the Domino Web Access Instant Messaging setting "Loading \stlinks from Domino application server" in the Configuration Settings document of the Domino Directory server.
iNotes_WA_OOO_RunOnWeekends	This setting was used to run the Out-of-Office agent for mail databases based on the inotes5.ntf template only, and is not necessary for iNotes6.ntf or DWA7.ntf mail templates. The iNotes5.ntf mail template is not an available in Domino 7.
iNotes_WA_NoLocalArchive	Functionality now enabled by the Domino Web Access setting "Local Archiving" in the Configuration Settings document of the Domino Directory server.

## Product compatibility

Domino Server

### AIX - Concurrent I/O, Direct I/O not supported on Domino servers

Concurrent I/O (CIO) and Direct I/O (DIO) are not supported for use with Lotus Domino servers. CIO is a new file system feature that has been introduced in AIX 5.2.0.10 (also known as maintenance level 01), in the Enhanced Journaling File system (JFS2). The documentation for this feature states that it improves performance for many environments, particularly for relational databases.

Because the CIO feature is not supported for use with Domino servers, you should not enable this option on file systems that Domino will access. Having this option enabled has been reported to cause Domino data corruption that may result in server crashes, or in serious performance issues.

Certain core file system items (such as file buffer cache, per-file lock or inode lock, and sync daemon) are managed differently by the operating system with the CIO option enabled. Currently, Domino has not been coded to address these changes in behavior.

The CIO option is normally enabled as a flag, given when a file system is mounted. To disable this mount option, use the following steps:

1. For each file system that is mounted with CIO, run the following command:

```
chfs -a options=rw /FS_NAME
```

Where /FS\_NAME is the name of the mount point.

2. Next, unmount and remount each file system. Or, you can reboot, which has the same effect if done after the chfs commands.

3. To verify the change was applied, run 'mount' and make sure you do not see "cio" in the mount options column, as shown in the example below.

**Example**

output with CIO disabled:

```
/dev/test05lv /test05 jfs2 Oct 04 23:13 rw,log=INLINE
```

output with CIO enabled:

```
/dev/test03lv /test03 jfs2 Sep 19 19:25 rw,cio,log=INLINE
```

**NOTE:** DIO poses the same problems to Domino as CIO does. Evaluation for including support for CIO and DIO will be considered for a future release, based on customer demand.

For additional information on the CIO feature, refer to the AIX whitepaper "Improving Database Performance With AIX Concurrent I/O" at [http://www-1.ibm.com/servers/aix/whitepapers/db\\_perf\\_aix.pdf](http://www-1.ibm.com/servers/aix/whitepapers/db_perf_aix.pdf)

Domino Web Access

**Need correct IE browser plug-in to access live console**

If a user attempts to use the live console through the webadmin.nsf, and the browser which is used does not have the correct plug-in, it will display the following error:

```
om.ms.com.ComFailException: (0x80004002) No such interface supported  
at com/ms/com/IServiceProvider.QueryService
```

The user must apply the correct plug-in.

# Chapter 2 - Installation, migration, upgrade, and configuration information

## Hardware requirements

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino for z/OS, Domino for i5/OS

### Notes and Domino 7 hardware requirements

For a list of the Notes and Domino 7 hardware requirements for each supported platform, please see the release note titled "Notes and Domino 7 platforms and system requirements" in the 'Software requirements' section of this chapter.

Domino for i5/OS

### i5/OS (iSeries) hardware requirements

#### i5/OS (iSeries) Server Hardware

One of the following hardware models:

- IBM iSeries model 8xx servers  
The following models are recommended:
  - 810, 825 , 800-2464 and above.Model 800-2463 is not recommended.

-OR-

- eServer i5 model 520 or higher  
The following models are recommended:
  - 520-0901 and aboveModel 520-0900 is not recommended.

Memory and disk requirements:

- Minimum 288 MB memory, 512 MB recommended
- Minimum 1.6 GB free disk space, 2 GB recommended

Although a Domino server can run on any PowerPC model, the iSeries server models are optimized for client/server applications such as Domino.

**Note:** Use these values as general guidelines for minimum memory and disk space. The requirements for your environment may be different. For more information about sizing an iSeries server for Domino, use the IBM Workload Estimator for iSeries. The Estimator is available at the following Web site:

<http://www.ibm.com/eserver/series/support/estimator>

Domino Administrator Client, Notes Client, Domino Server

### Tested Smartcard packages

Smartcard functionality has only been tested under Win32-based operating systems. Untested smartcards that include PKCS #11 libraries may work with Notes/Domino 7. The following smartcard packages have been tested, and indicated (\*) packages have caveats listed below:

Smartcard Package	Login with the token	Removing token will generate 'F5'-style logout	512-bit RSA keys on the token	1024-bit RSA keys on the token
ActivCard Gold 2.2	yes	yes	yes	yes
Belgian eID v2.3.13 (*)	yes (*)	no (*)	no	yes
Datakey CIP 4.07	yes	yes	yes	yes
Estonian eID (*)	no (*)	no (*)	n/a	yes
Eutron Cryptoidentity Cryptokit 3.5.3	yes	yes	yes	yes
Eutron Cryptoidentity CryptoKit 3.2.1	yes	yes	yes	yes
GemSafe Libraries 4.1	yes	yes	*	*
GemSAFE libraries 3.1 SP4 (GPK16000)	yes	yes	yes	yes
GemSAFE Enterprise Workstation 2.21 (GPK8000) (*)	yes	no	no	yes
GemSAFE Enterprise Workstation 2.0 (GPK4000) (*)	yes	no	no	yes
IBM Embedded Security System 2.0 with Client Security Software v5.41	yes	n/a	no	no
IBM Embedded Security System 1.0	yes	n/a	no	no
Rainbow iKey 2032 SDK v4.7.0	yes	yes	yes	yes
Rainbow CryptoSwift eCommerce Server Accelerator PCI CS400 model 2.2.6a (*)	yes	n/a	yes	yes
Schlumberger Cyberflex Access SDK V4.3	yes	yes	no	yes
Schlumberger Cyberflex Access SDK V2	yes	yes	no	yes

#### Smartcard Package Caveats:

- Version 2.2 is the required minimum version of ActivCard Gold supported for Notes 7.
- The Belgian eID was tested with run-time version 2.3.13. A number of bugs are present in this version of the library: pressing the "Select Slot" button in the User Security Panel will result in the PKCS #11 library crashing; users may receive PIN prompts from the PKCS#11 library as well as Notes; the ID file can be successfully locked with certificates imported from the token using the "Lock ID With Key on Smartcard" action, but starting Notes with the token in the reader subsequently will take 5-30 seconds; removing the token from the reader will lock Notes if the ID is locked with a key on the smartcard, but the PKCS #11 library will never report that the token has been re-inserted, forcing the user to shut down Notes, remove the token from the reader, restart Notes, then re-insert the token into the reader. Updating to the most recent version of the Belgian eID token may fix some or all of these problems.
- The Estonian eID was tested with the PKCS#11 library from OpenSC version 0.9.4mp5. Using this version of the library, S/MIME signing was functional with the pre-loaded certificates and keys, but smartcard login was nonfunctional. It is probable that version 0.9.4mp6 will fix a bug that prevented the "Lock ID With Key on Smartcard" action from succeeding.
- The Rainbow CryptoSwift eCommerce Server Accelerator fails to report that RSA cryptographic operations are performed in hardware. If you are having difficulty performing cryptographic operations (including importing X.509 certificates or exporting RSA keys) with this device, setting PKCS11\_NO\_HWCHECK=1 or PKCS11\_TOKEN\_BUGS=2 in the notes.ini file will activate a workaround in Notes/Domino for this problem.

- The GemSafe Libraries 4.1 claim support for hash and sign mechanisms that they do not actually provide. If you are having difficulty signing S/MIME messages with a key on these smartcards, setting PKCS11\_TOKEN\_BUGS=1 in the notes.ini file will activate a workaround in Notes for this problem.
- GemSAFE 2.21's NT Lock Workstation feature has been known to crash some versions of NT and deadlock with Notes. When installing GemSAFE 2.21, the NT lock workstation feature defaults to on. Un-check the box.
- There may be problems when installing GemSAFE 2.21 on a laptop running NT 4.

**Caveats and Warnings:**

- The only way to recover from losing or breaking a smartcard or to revert a smartcard-protected ID file to a password is through ID File Recovery. ID File Recovery should be configured for an ID file before the ID file is smartcard-enabled. Recovering a smartcard-protected ID file will revert the ID file to use a password and will restore any keys that were pushed onto the smartcard, as long as the recovery information was not changed after the key was pushed down to the smartcard.
- Password expiration should be disabled in a user's person record before they smartcard-enable their ID file.
- Password checking will result in only a single smartcard being usable with a given ID file, even across multiple computers or platforms. In this scenario, one copy of the ID file should be smartcard-enabled, and then that version of the ID file should be copied to all of the other respective computers. That single smartcard will now be required for all of the copies of the ID file.
- Server setup will not function with a smartcard-protected server ID. In order to use a smartcard-protected ID with a server, finish server setup with a password-protected version of the ID file, then add the path to the PKCS #11 library in the server's notes.ini (PKCS11\_Library=<path to library>), and finally smartcard-enable the server's ID file on a client or using the SECManipulateSC C-API function.
- Single Logon, which synchronizes the Notes and Windows passwords, cannot be used with a smartcard-protected ID file. You must restart Notes after disabling Single Logon before smartcard-enabling an ID file.
- The format in which smartcard-related information is stored in the ID file has changed since the earliest beta releases of Notes 6. Using an ID file that was smartcard-enabled with one of these early beta releases will result in an "Incomplete or incorrect smartcard configuration" with Notes 7.
- Notes uses version 2.01 of the PKCS #11 API to communicate with smartcards and other PKCS#11 devices. PKCS #11 libraries that only implement version 2.0 will not result in an "F5"-style logout when the card is removed from the reader. Updated libraries may be available from the smartcard vendors.

**Sample PKCS #11 Library Install Paths:**

- c:\WINNT\system32\acpkcs201.dll (ActivCard Gold 2.2)
- c:\WINNT\system32\dkck201.dll (Datakey CIP 4.07)
- c:\WINNT\system32\opensc-pkcs11.dll (Estonian eID)
- c:\WINNT\system32\sadaptor.dll (Eutron Cryptoidentity CryptoKit 3.2.1 & 3.5.3)
- c:\WINNT\system32\gclib.dll (GemSAFE Libraries 3.1 and 4.1)
- c:\WINNT\system32\pk2priv.dll (GemSAFE 2.21)
- c:\windows\system32\ibmpkcss.dll (IBM Embedded Security System 1.0)
- c:\WINNT\system32\dkck201.dll (Rainbow iKey 2032)
- c:\WINNT\system32\Cryptoki22.dll (Rainbow CryptoSwift eCommerce Sever Accelerator)
- c:\Program Files\Netscape\Communicator\Program\acpkcs.dll
- c:\Schlumberger\Smart Cards and Terminals\Cyberflex Access Kits\v4\slbck.dll (Schlumberger Cyberflex Access V4.3)
- c:\Schlumberger\Smart Cards and Terminals\Common Files\slbck.dll (Schlumberger Cyberflex Access V2)

## Software requirements

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

### Notes and Domino 7 platforms and system requirements

The platforms and operating systems listed in the table below are applicable to the Notes/Domino 7.0 release, and may not necessarily pertain to other Notes/Domino releases.

For Domino Web Access system requirements, please refer to the release note titled "Domino Web Access system requirements".

Operating system patches, service packs, and other updates are not specified in the tables that follow. Note that operating system vendors frequently release updates. For the most recent information regarding updates, see the Lotus Knowledge Base online at <http://www-3.ibm.com/software/lotus/support/> or contact your local Lotus Support representative.

#### Notes Client

Platform	Microsoft Windows 2000	Microsoft Windows XP
Supported operating system versions	Microsoft Windows 2000 Professional  (see the "Windows service pack requirements" Release Note for Service Pack information)	Microsoft Windows XP Professional;  Microsoft Windows XP Tablet PC Edition  (see the "Windows service pack requirements" Release Note for Service Pack information)
Processors supported	Intel Pentium	Intel Pentium
RAM	128 MB minimum  256 MB or more recommended	128 MB minimum  256 MB or more recommended
Disk space  (The minimum amounts are the disk space required for installing default files. More disk space is required if databases are replicated locally or copied locally)	275 MB required	275 MB required
Monitors supported	Color monitor required	Color monitor required
<b>Protocols supported</b>		
NetBEUI/NetBIOS <sup>(1)</sup>	Yes	No (NetBEUI)
NetBIOS over IP <sup>(2)</sup>	Yes	Yes
NetBIOS over IPX	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>
SPX	No	No
SPX II	No	No
TCP/IP	Yes	Yes
X.PC	Yes	Yes

**Domino Administrator Client, Domino Designer**

<b>Platform</b>	<b>Microsoft Windows 2000</b>	<b>Microsoft Windows XP</b>
Supported operating system versions	Microsoft Windows 2000 Professional  (see the "Windows service pack requirements" Release Note for Service Pack information)	Microsoft Windows XP Professional  (see the "Windows service pack requirements" Release Note for Service Pack information)
Processors supported	Intel Pentium	Intel Pentium
RAM	128 MB minimum  256 MB or more recommended	128 MB minimum  256 MB or more recommended
Disk space  (The minimum amounts are the disk space required for installing default files. More disk space is required if databases are replicated locally or copied locally)	275 MB required	275 MB required
Monitors supported	Color monitor required	Color monitor required
<b>Protocols supported</b>		
NetBEUI/NetBIOS <sup>(1)</sup>	Yes	No (NetBEUI)
NetBIOS over IP <sup>(2)</sup>	Yes	Yes
NetBIOS over IPX	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>
SPX	No	No
SPX II	No	No
TCP/IP	Yes	Yes
X.PC	Yes	Yes

**Footnotes**

<sup>1</sup> Only Microsoft NetBEUI is supported. Starting with Windows XP, Microsoft has discontinued support of the NetBEUI.

<sup>2</sup> Only Microsoft TCP/IP is supported.

<sup>3</sup> Both Novell NetBIOS and Microsoft NetBIOS over IPX are supported.

**Domino Server<sup>4</sup> - Table 1**

<b>Platform</b>	<b>Microsoft Windows 2000</b>	<b>Microsoft Windows 2003</b>
Supported operating system versions	Microsoft Windows 2000 Server; Microsoft Windows 2000 Advanced Server  (see the "Windows service pack requirements" Release Note for Service Pack information)	Microsoft Windows 2003 Server Standard Edition; Microsoft Windows 2003 Server Enterprise Edition  (see the "Windows service pack requirements" Release Note for Service Pack information)
Processors supported	Intel Pentium or higher and compatibles	Intel Pentium or higher and compatibles
RAM	256 MB minimum 512 MB or more recommended per CPU	512 MB minimum 512 MB or more recommended per CPU
Disk space	1.5 GB minimum per partition	1.5 GB minimum per partition
Disk swap space	2 times the physical RAM installed	2 times the physical RAM installed
Monitors supported	Color monitor required	Color monitor required
<b>Protocols supported</b>		
NetBEUI/NetBIOS <sup>(1)</sup>	Yes	No
NetBIOS over IP <sup>(2)</sup>	Yes	Yes
NetBIOS over IPX	Yes	Yes
SPX	No	No
SPX II	No	No
TCP/IP	Yes	Yes
TCP/IP IPV6	No	Yes
X.PC	Yes	Yes

Domino Server - Table 2

Platform	IBM AIX <sup>(5)</sup>	Linux	Sun Solaris <sup>(9)</sup>
Supported operating system versions	IBM AIX 5.2 IBM AIX 5.3  (see the "AIX patch requirements" Release Note for Service Pack information)	Novell SuSE Linux Enterprise Server (SLES) 8 Novell SuSE Linux Enterprise Server (SLES) 9  (see the "Linux patch requirements" Release Note for Service Pack information)	Sun Solaris 9  (see the "Solaris patch requirements" Release Note for Service Pack information)
Processors supported	PowerPC	Intel Pentium or higher and compatibles	UltraSPARC and newer
RAM	512 MB minimum; 512 MB or more recommended per CPU	512 MB minimum; 512 MB or more recommended per CPU	512 MB minimum 512 MB or more recommended per CPU
Disk space	1.5 GB minimum 1.5 GB or more recommended	1.5 GB minimum 1.5 GB or more recommended	1.5 GB minimum 1.5 GB or more recommended
Disk swap space	Same amount as Physical memory required; recommend 2 times the physical RAM installed	2 times the physical RAM installed recommended	3 times the physical RAM recommended
Monitors supported	Any standard display (local or remote)	Any standard display (local or remote)	Any standard display (local or remote)
<b>Protocols supported</b>			
NetBEUI/NetBIOS <sup>(1)</sup>	No	No	No
NetBIOS over IP <sup>(2)</sup>	No	No	No
NetBIOS over IPX	No	No	No
SPX <sup>(3)</sup>	No	No	No
SPX II	No	No	No
TCP/IP	Yes	Yes	Yes
TCP/IP IPV6	Yes	Yes	Yes
X.PC	Yes	Yes	Yes

Domino Server - Table 3

Platform	Domino for IBM i5/OS	IBM z/OS	Linux on zSeries
Supported operating system versions	IBM i5/OS™ V5R3  (see the "i5/OS system requirements" Release Note for additional information)	IBM z/OS Version 1, Release 5 and above	Novell SuSE Linux Enterprise Server (SLES) 8 on zSeries (31-bit) Novell SuSE Linux Enterprise Server (SLES) 9 on zSeries (64-bit)  (see the "Domino for Linux on zSeries service pack requirements" Release Note for service pack information)
Processors supported	IBM iSeries server based on PowerPC™ (RISC) technology  eServer i5 model 520 or higher	Any that supports your release level of z/OS	Any that supports your release level of Linux on zSeries
RAM	288 MB minimum; 512 MB or more recommended	1 GB minimum; 2 GB or more recommended	1 GB minimum 2 GB or more recommended
Disk space	1.6 GB minimum 2 GB or more recommended	3 3390-3 volumes minimum	2.5 GB minimum 2.5 GB or more recommended
Disk swap space	N/A	N/A	N/A
Monitors supported	Any standard display (local or remote)	Any standard display (local or remote)	Any standard display (local or remote)
<b>Protocols supported</b>			
NetBEUI/NetBIOS <sup>(1)</sup>	No	No	No
NetBIOS over IP <sup>(2)</sup>	No	No	No
NetBIOS over IPX	No	No	No
SPX <sup>(3)</sup>	No	No	No
SPX II	No	No	No
TCP/IP	Yes	Yes	Yes
TCP/IP IPV6	No	Yes	Yes
X.PC	No	No	No

### Footnotes

<sup>1</sup> Only Microsoft NetBEUI is supported. Starting with Windows XP, Microsoft has discontinued support of the NetBEUI.

<sup>2</sup> Only Microsoft TCP/IP is supported.

<sup>3</sup> Domino clusters and partitioned server configurations do not support the IPX/SPX protocol. At this time, Lotus does not plan to provide IPX/SPX network support for future releases of these features.

<sup>4</sup> If you are running with DB2 as the Domino data store then you must add additional DB2 install requirements. DB2 8.2 is supported. For additional install requirements, please see "Setting up and using Domino 7 and DB2" in these release notes.

<sup>5</sup> The 64-bit kernel must be installed and in use on these systems, even though the OS is 32-bit. The use of the 32-bit kernel is no longer supported on these platforms. Please see the OS vendor documentation for questions on enabling/using the 64-bit kernel. (On Solaris, the 64-bit kernel is used by default on supported hardware; this is not the case for AIX).

Domino for i5/OS

## i5/OS (iSeries) software requirements

### Operating System Software

The following iSeries software is required for Domino 7:

- IBM i5/OS™ V5R3
- OS/400 - Host servers, 5722SS1 (option 12)
- TCP/IP Connectivity Utilities for iSeries, 5722TC1
- IBM Developer Kit for Java™, 5722JV1 plus the 1.4 JDK option for 5722JV1 (option 6)
- OS/400 - QShell Interpreter, 5722SS1 (option 30)

Make sure you have the latest PTF levels applied on your system. Refer to the Preventive Service Planning (PSP) Web site for the latest cumulative, group and individual PTFs available for the release ([http://www-912.ibm.com/s\\_dir/sline003.nsf/sline003home](http://www-912.ibm.com/s_dir/sline003.nsf/sline003home)).

If you would like to manage your Domino environment using iSeries Navigator, the graphical user interface for managing an iSeries server, you must install the following additional software:

- IBM iSeries Access Base, 5722XW1 (V5R3).
- IBM iSeries Access for Windows, 5722XE1 (V5R3)
- Latest iSeries Navigator service pack available (<http://www-1.ibm.com/servers/eserver/series/access/casp.htm>)
  - V5R3 - SI15176

If you plan to use the Java server controller [STRDOMSVR SERVER(server-name) JSC(\*YES)] you must also install the following additional software:

- Crypto Access Provider 128-bit , 5722AC3 (V5R3).

### Domino software

- Lotus Domino 7 for i5/OS (5733LD7)

There are three options that can be installed.

- 5733LD7 \*BASE - This is the base option of Domino 7; this option is required.
- 5733LD7 option 1 - This contains the C API related files; installation of the C API is optional. If you want to run any application that uses the C API interfaces, you must install this software.  
Note: The C API option is not multi-version capable.
- 5733LD7 option 10 - This option contains the Domino 7 server code; installation of this option is required.

After installing all three options of Domino 7 for i5/OS, the following will be displayed on the DSPSFWRSC panel:

```
5733LD7 *BASE 5050 Lotus Domino 7 (5724E62)
5733LD7 *BASE 2924 Lotus Domino 7 (5724E62)
5733LD7 1 5050 Lotus Domino 7: C API
5733LD7 10 5050 Lotus Domino 7: Release 7.0.0
5733LD7 10 2924 Lotus Domino 7: Release 7.0.0
```

The Resource ID "5733LD7" is the i5/OS installed licensed program (LICPGM) value and the text "(5724E62)" that follows the Description is the IBM Lotus Passport Advantage product ID. While both values may be used to refer to the Lotus Domino 7 product, the 5733LD7 LICPGM value is specific to i5/OS.

### Individual V5R3 PTFs recommended

5722SS1 SI16689 - OSP-INCORROUT C RUNTIME SETLOCALE CHANGE

- In certain situations, calls to the setlocale() routine will return an empty string rather than the correct locale string. The locale will have been set correctly by setlocale(), but the string result will be empty rather than having the correct value.

5722999 MF34557 - LIC-COMM JSSE does not detect when 5722AC3 is installed

- This PTF addresses Java controller/console connect errors that may occur if the controller is the only SSL application and no other SSL servers/applications have been previously started.

Domino Web Access

## Domino Web Access system requirements

### Client Requirements

- Recommended for better performance --Pentium IV 1 GHZ with 512 MB of memory (Windows and Linux clients)
- Minimum -- Pentium III 400 MHz with 128 MB of memory (Windows client); Pentium III 500 MHz with 192 MB of memory (Linux client)

### Client Operating Systems

- Windows 2000 Professional
- Windows XP

### Client Operating Systems for Mozilla

- Novell SuSE Linux Enterprise Server (SLES) 8
- Novell SuSE Linux Enterprise Server (SLES) 9

### Supported Browsers

- Win32 Internet Explorer 6.0
- Mozilla 1.4.1 and 1.7.x (Linux clients only)
- Mozilla Firefox 1.0 on Win32 and Linux (supported by the DWA7 mail template only; not supported by iNotes6 templates)

Attempting to access Domino Web Access through unsupported browsers results in the display of an unsupported browser notice. Netscape 4.x users may see hangs and/or crashes when encountering the Domino Web Access unsupported browser page. If you are a Netscape 4.x user and you encounter these problems, you should open your mail file using the WebMail UI directly through the &ui=webmail switch. This is documented in the topic "Switching to WebMail" in the Domino Web Access help.

**Note:** Domino Web Access will not work if JavaScript is disabled or if session cookies are disabled.

### Server Requirements

See "**Notes and Domino 7 platforms and system requirements**" in the Release Notes for a complete list of server operating systems and requirements.

### Certified Proxy Servers

- SunOne Portal Server 6.2
- IBM WebSphere Edge Server 2.0.2 efix 49
- Tivoli Access Manager 5.1

### Adobe Acrobat

Adobe Acrobat Reader, Version 4.0 or higher to print calendars.

Domino Access for Outlook

## Domino Access for Microsoft Outlook Requirements

IBM Lotus Domino Access for Microsoft Outlook allows Microsoft Outlook 2000, 2002 (XP), or 2003 users to connect to an IBM Lotus Domino Server running Domino 7.0. If you are upgrading from an earlier beta version, please refer to the "Upgrade Instructions" before installing.

### System and Outlook requirements

- Windows OS (Windows 2000 Professional or Windows XP Professional)
- Microsoft Outlook 2000 or Outlook XP with SP3, and Outlook 2003 with SP1
- Domino Server running 6.5.1 or higher
- Mail databases created using a Mail7.NTF, Mail7ex.NTF or DWA7.NTF template

### Client System Memory

- Windows 2000 Professional Edition and Windows XP Professional Edition with Service Pack 3: 128 MB RAM required; 256 MB or more recommended

### Client Disk Space

- Windows OS: 275 MB disk space

Domino Administrator Client, Domino Server, Domino Offline Services (DOLS)

### **DOLS system requirements**

DOLS is supported on Win32 clients. DOLS is supported on Win32, AIX, Solaris, and Linux servers.

#### **Client System Requirements:**

- Intel Pentium
- Minimum RAM, 128MB; recommended RAM, 256MB
- 500MB free disk space recommended for basic operation
- Additional disk space for each subscription, depending on size

#### **Browser Requirements:**

- Internet Explorer 6.0 or higher

Domino Designer

### **DECS - supported data drivers list**

#### **Win2000, Win2003**

Oracle 8i, 9i, 10g  
DB2 8.x  
Sybase 12.5  
MS SQL Server 2000  
Data Direct ODBC 5.0

#### **AIX 5.2, AIX 5.3**

Oracle 8i, 9i, 10g  
DB2 8.x  
Sybase 12.5  
Data Direct ODBC 5.0

#### **Solaris 9**

Oracle 8i, 9i, 10g  
DB2 8.x  
Sybase 12.5  
Data Direct ODBC 5.0

#### **SuSE Linux Enterprise Server 9 (SLES 9)**

Oracle 8i, 9i, 10g  
DB2 8.x  
Data Direct ODBC 5.0

#### **i5/OS V5R3**

DB2 8.x  
Data Direct ODBC 5.0

#### **z/OS 1.5**

DB2 8.x

Domino Server

### **AIX platforms supported**

AIX 5.2 and AIX 5.3 are supported platforms for the Domino 7 server.

Domino Server

### **AIX patch requirements**

The following AIX patch level is required for Domino 7:

#### **AIX 5.2**

ML2 is required.

Oct 2003 Visual Age C/C++ RTE Patch or higher

#### **bos.perf.proctools 5.2.0.31**

In order to have nsd.sh use procstack instead of dbx (for speed purposes) customers should install this patch (APAR IY55355). This will be included in ML4 for AIX 5.2, and the base code for AIX 5.3

#### **AIX 5.3**

PTF IY58143

PTF IY58691 \*

\* also upgrade bos.net.nis.client to version 5.3.0.10 if NIS is installed on the system and NIS is not at this level (or higher) after this APAR installed

#### **Optional patch**

If you experience Domino failures in "**\_DoThrow**" then you should follow this link:

APAR IY34980 · <http://www-1.ibm.com/support/docview.wss?uid=isg1IY34980>

and apply the patch to your system. It deals with an issue with the C++ runtime of AIX 5.x. You only need to apply this APAR if you run into failures of this type, otherwise it is not required.

Domino Server

### **AIX - IOCP required**

Domino 7 requires that you install and enable IOCP on AIX systems.

Domino Server

### **AIX - Java needs X11 libraries**

For Java to run, the following packages must be installed, even if running a "minimal" AIX installation:

X11.base.lib

X11.base.rte

along with any "prerequisite" software for these packages.

Domino Server

### **AIX - Java requires X11.fnt.ucs.ttf for Far Eastern locales**

In order for Java to properly display Unicode glyphs for Far Eastern languages on AIX, it requires the installation of X11.fnt.ucs.ttf from the AIX installation CDs.

Domino Server

### **AIX - Installing bos.adt.debug**

On some AIX versions, it is possible that bos.adt.debug will not be installed by default. If this package is not installed on your system, then you need to manually install it in order for the nsd program to work. This package, bos.adt.debug, contains the dbx program which is used by nsd to attach to the running processes and provide the stacks necessary for debugging problems with Domino.

Domino Server

### Linux platforms supported

SLES 8 Linux on x86 and Linux on zSeries (31-bit) and SLES 9 Linux on x86 and Linux on zSeries (64-bit) are supported platforms for the Domino 7 server.

Domino Server

### Linux patch requirements

The following Linux patch levels are required for Domino 7:

#### SLES 8

Requires Service Pack 3 (or higher).

pstack-1.1.7.IBM-1 - downloaded from ftp.suse.com. The location is /pub/projects/pstack/ and then architecture (sles8-i386, sles8-s390).

#### SLES 9

Requires Service Pack 1 (or higher).

(gdb 6.3 may be needed on x86 if issues with stacks in nsd)

Domino Server

### Solaris platforms supported

Solaris 9 is a supported platform for the Domino 7 server.

**Note:** Domino 7 only supports systems with UltraSPARC and newer processors.

Domino Server

### Solaris patch requirements

The following Solaris patch level is required for Domino 7:

#### Solaris 9

Solaris Cluster patch for 11/14/2003 or higher

As applicable, patches 111703-03, 111711-06, 111712-06, 111722-04, 112758-01, 112760-04, 112762-04, 112763-05, 113817-03, 113820-01, 113823-03, 114801-02 (or higher or same patch type)

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

### Windows platforms supported

#### Notes Client

The following are supported platforms for the Notes, Domino Designer, and Domino Administrator 7 Clients:

- Windows 2000 Professional
- Windows XP Professional
- Windows XP Tablet PC Edition (Digital Ink Input will not be supported in the Notes 7 client)

#### Domino Designer, and Domino Administrator Clients

The following are supported platforms for the Notes, Domino Designer, and Domino Administrator 7 Clients:

- Windows 2000 Professional
- Windows XP Professional

#### Domino Server

The following are supported platforms for the Domino 7 server:

- Windows 2000 Server; Windows 2000 Advanced Server
- Windows 2003 Server Standard Edition; Windows 2003 Server Enterprise Edition

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

### Windows service pack requirements

Notes/Domino 7 is initially supported on Windows platforms with the application of the Service Packs listed below. Although individual operating system patches and Service Packs are not certified, IBM/Lotus realizes that there are later service packs that may become publicly available after testing, and acknowledges that these more recent updates may fix additional problems. You may wish to apply these newer service packs as they become available.

You can obtain and install the following patches from Microsoft Corporation or download them from Microsoft's Web site:

<http://www.microsoft.com/downloads>

#### Notes, Domino Designer, and Domino Administrator Clients:

- Windows 2000 Professional: Service Pack 4
- Windows XP Professional: Service Pack 1

#### Domino Server

- Windows 2000 Server; Windows 2000 Advanced Server: Service Pack 4

Not required, but highly recommended - Windows 2003 Service Pack 1 and Windows XP Service Pack 2, to fix an UnmapViewOfFile performance issue.

Domino Server

### Web browsers supported

The following are the Web browsers supported, by application.

Application	Browsers supported
Notes Client <sup>1</sup>	<ul style="list-style-type: none"> <li>● Internet Explorer 6.0 on Windows XP Professional and Windows 2000 Professional</li> <li>● Mozilla 1.7.6 on Red Hat Enterprise Linux 3.0</li> <li>● Mozilla 1.7.6 on Novell Linux Desktop 9.0</li> </ul>
Web Mail and Web-enabled templates	<ul style="list-style-type: none"> <li>● Mozilla 1.7.6 on Windows XP Professional and Windows 2000 Professional</li> <li>● Mozilla 1.7.6 on Mac OS 10.2 and Mac OS 10.3</li> <li>● Mozilla 1.7.6 on AIX</li> <li>● Mozilla 1.7.6 on Solaris</li> <li>● Mozilla 1.7.6 on Red Hat Enterprise Linux 3.0</li> <li>● Mozilla 1.7.6 on Novell Linux Desktop 9.0</li> <li>● IBM Browser for OS/2, version 2</li> </ul>
Domino Web Administrator	<ul style="list-style-type: none"> <li>● Mozilla 1.7.6 on Windows XP Professional and Windows 2000 Professional</li> <li>● Mozilla 1.7.6 on AIX</li> <li>● Mozilla 1.7.6 on Solaris</li> <li>● Mozilla 1.7.6 on Red Hat Enterprise Linux 3.0</li> <li>● Mozilla 1.7.6 on Novell Linux Desktop 9.0</li> </ul>

<sup>1</sup> Not applicable to Domino Designer.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### File formats supported

The following file formats are supported in Notes 7 through the Verity 7.4.21 viewer.

Format
Adobe PDF
Lotus Freelance (PRE, PRZ)
Microsoft Powerpoint for Mac (PPT)
Microsoft Powerpoint for PC
Microsoft Powerpoint for windows
Applix Spreadsheets (AS)
Lotus 123 SmartSuite (123)
MS Excel for Windows (XLS)
ANSI (TXT)
ASCII (TXT)
Lotus Word Pro (LWP)
MS Word for Windows (DOC)
Rich Text Format/WorkPad (RTF)
Unicode Text
WordPerfect for Windows
Lotus 123 (WK4)
MS Excel for Mac (XLS)
Applix Words (AW)
HTML (HTM)
JustSystems Ichitaro (JTD) (support via an alternate filter)
MS Word for MAC (DOC)
MS Word for PC (DOC)
Word Perfect for Linux - New
Word Perfect for Windows (WO)
Microsoft Outlook (msg) - New
Microsoft Outlook (eml) - New
Applix Presents (AG)
Corel Presentations (SHW)
Microsoft Project (MPP)
Comma Seperated Values (CSV)
Corel Quattro Pro (QPW, WB3)
MS Excel Charts (XLS)
Display Write (IP)
Folio Flat File (FFF)
MS Windows Write (WRI)
MS Works (WPS)
WordPerfect for MAC
XyWrite (XY4)
DynaZip
PKZIP (ZIP)
WinZip
MS Outlook Express (EML)
AutoCAD Drawing Format (DWG)
AutoCAD Drawing Format (DXF)
Computer Graphics Metafile (CGM) embedded
Enhanced Metafile (EMF) embedded and standalone

<b>Format</b>
Lotus Pic (PIC)
MS Visio
Tagged Image File (TIFF) standalone
Windows Metafile (WMF) embedded and standalone
MPEG 1 Audio layer 3 (MP3)
Lotus 123 Charts
MS Works Spreadsheets (S30, S40)
Fujitsu Oasys (OA2)
IBM DCA/RFT (DC)

Domino Administrator Client, Domino Server

### **Web Administrator: Domino LIVE console requires Sun Java 1.4.2**

The Sun Java 1.4.2 plugin is required for the Domino LIVE console in Web Administrator.

Domino Server, Domino for z/OS

### **z/OS Software levels: PTF checker**

The following web site contains the list of z/OS service required to run Domino 7 for z/OS:

<http://www.ibm.com/servers/eserver/zseries/software/domino/servrel6.html>

Additionally, a tool (the PTF checker) is provided that uses SMP/E to verify that this service has been applied on a z/OS system. The PTF checker is also provided at the web site listed above. To use the PTF checker, follow the directions in the comments section of the file.

The web site should be reviewed frequently and service should be applied and verified whenever there are changes to the list.

Domino Server, Domino for z/OS

### **z/OS DB2 requirements for LS:DO, LCLSX and DECS**

Following are the z/OS Enterprise Integration restrictions (LS:DO, DECS, LCLSX)

- DB2 ODBC must use the DB2 for OS/390 and z/OS Recoverable Resource Manager Services attachment facility (RRSAF). Set MVSATTACHTYPE=RRSAF in the Subsystem section for any database used by LCLSX or DECS  
Any Stored Procedure must be defined to use RRSAF.
- DB2 PTF AQ91824 must be installed

Domino Server, Domino Offline Services (DOLS)

### **Linux for zSeries SLES9 DB2 requirements**

If using LS:DO, LC LSX, or DECS with Domino on Linux for zSeries (64-bit), there is a special consideration for DB2 connections. DB2 on Linux for zSeries will only support a 64-bit application interface at this time. Domino is built as a 31-bit application, and runs in toleration mode on the 64-bit Linux operating system. A communication interface must be in place for Domino to interact with DB2. This interface, the "IBM DB2 Universal Database Runtime Client (31-bit) for 64-bit Linux for zSeries", can be downloaded from <http://ibm.com/db2/udb/support/downloadv8.html>

The DB2 UDB Runtime Client must be installed in the same image(s) as Domino, however it may not coexist in the same image as DB2 UDB (64-bit). See the Runtime Client documentation for details.

Domino Server, Domino for z/OS

### IBM HTTP Domino Plugin for z/OS

Domino for IBM HTTP Server (WebConnector) is no longer supported. WebSphere to Domino connectivity is now achieved through the use of a general-purpose WebSphere plugin. Customers desiring the Domino Plugin for use with the IBM HTTP Server should contact their IBM Sales Representative to obtain it.

Domino Administrator Client, Domino Server

### Domino 7 and IPv6

Domino 7 offers additional platform support above the IPv6 support previously in the product as well as a new feature -- Notes client's attempted use of all addresses for a name until one is resolved. By default, IPv6 is disabled.

To enable IPv6 for Domino 7, see the topic "Enabling IPv6 on Notes and Domino 7" in the Domino Administrator documentation.

Support for IPv6 by hardware and operating system suppliers and the Internet is still in the early stages; therefore, moving to the IPv6 standard is a gradual process for most organizations. In Lotus Domino 6, you can enable IPv6 support for Domino (NRPC), SMTP, POP3, IMAP, LDAP, and HTTP services on AIX®, Solaris®, and Linux systems. IPv6 is an emerging standard. Vendors that have implemented (or are implementing) IPv6, have done so in varied ways. Enable and configure IPv6 in your enterprise according to the client and server platforms you are using.

#### Supported platforms

IPv6 with Notes Domino 7 is supported on the following platforms

- Windows XP for the Notes client
- Microsoft Windows 2003 server
- AIX
- Solaris
- Linux on zSeries and Linux on x86

**Note:** IPv6 is not available on Domino for i5/OS.

See the Domino Administrator documentation for more information about Domino 7 and IPv6.

Domino Server

### Hyper-threaded CPUs treated as SMP systems

Due to the "virtual" CPU that is inherent with a hyper-threaded CPU, hyper-threaded CPUs are counted as SMP systems.

## Installation notes

Domino Administrator Client, Notes Client, Domino Designer

### Notes 7 and Notes 6.x coexistence

Do **not** install both Lotus Notes 7 and Lotus Notes 6.x on the same machine. Instead, upgrade Lotus Notes 6.x to Lotus Notes 7. If you need to install both Lotus Notes 7 and 6.x on the same machine, be aware that this installation could have adverse effects on the operation of the 6.x Client that was previously installed, for example, OLE/COM settings will point to the Notes 7 directory, default email client settings, etc. With that understanding, follow the steps below to install Notes 7 on a machine that also has 6.x installed:

**Note:** You must have local administrator privileges to complete this procedure. These instructions apply to single user installs only; they do not apply to multi-user client installs.

1. Shut down the Notes client and all Notes-related tools, utilities and add-ins running on your computer.
2. Rename the Notes 6.x directory. Notes 6.x is typically installed to \Program Files\Lotus\Notes on Windows. For example, you could rename the directory "Notes6."

3. Rename the entire Notes registry key HKEY\_LOCAL\_MACHINE\Software\Lotus\Notes. For example, you can rename it HKEY\_LOCAL\_MACHINE\Software\Lotus\Notes6
4. Rename the entire Installer registry key HKEY\_CURRENT\_USER\Software\Lotus\Notes\Installer. For example, you can rename it HKEY\_CURRENT\_USER\Software\Lotus\Notes\Installer6
5. Run the Notes 7 install program (SETUP.EXE). Select new locations for the program and data directories. For example, you can select \Program Files\Lotus\Notes7 and \Program Files\Lotus\Notes7\Data
6. During the install you may see an error message "Error 1905.Module c:\program files\lotus\notes\nlsxbe.dll failed to unregister. HRESULT". Click OK and installation will proceed.
7. When the install program has finished, rename the 6.x directory back to the original directory name, for example, \Program Files\Lotus\Notes)

Domino Administrator Client, Domino Server

### Installing Domino 7 on UNIX using multiple CDs

The Domino 7 server installation files do not fit on a single CD on some UNIX platforms; therefore, a new multiple-CD installation is provided. To maintain a consistent installation across all UNIX platforms, and to prepare for the time when additional platforms require more than one CD for server installation, the multiple-CD installation is used on all UNIX platforms, including those whose install files fit on one CD. The multiple-CD install unpacks and joins the contents of each CD into a single joined installation. Multiple-CD installation is only available for UNIX systems.

#### Running the multiple-CD install

Run the multiple-CD install in one of these two ways:

**Note** Run the multiple-CD install as the "root" user.

- Run the install directly from CD1\*
- Copy the files from the CD(s) to a directory\*\* and run the install from there. Copy all of the contents from CD1 but do not copy the file, Install.dat, from any subsequent CDs when copying their contents to the directory. On CDs other than CD1, Install.dat is only used when running the install from physical CDs. If the file Install.dat from CD1 is overwritten, the multiple-CD install will fail.

\* You cannot be "physically" on the CD when you run the install from CD1 due to mounting/unmounting considerations. You must be in a directory other than the CD directory and then run the install. For example, if the CD is mounted on /mnt/cdrom, you must be in a directory such as /tmp and then run the Install as /mnt/cdrom/Install.

\*\* For Linux on zSeries, or z/OS; you must use the "copy the files to a directory" method.

There is an initial install script (Install) on CD1 which when run, pulls together the "parts" on each CD to create the final joined installation. You specify where to put the joined installation; the multiple-CD install then uses the specified directory both for the joined installation and for temporary storage of the multiple-CD parts. Keep this in mind when selecting the directory to use, because the install requires an amount of space equal to approximately twice the number of CDs. For example, if there are two CDs, the size needed is approximately 2\*2\*600Mb=2.4Gb; however, this is a "burst" usage because the temporary storage area will be removed and the size will shrink by approximately half.

When multiple-CD install finishes creating the joined installation directory, it prompts you to start the standard "interactive" install process which actually installs Domino on the system. You can choose not to continue the install and then do so manually at a later time. This option is useful when setting up a network installation directory.

On some UNIX platforms, you must manually mount the CD because the OS does not automatically do so. The multiple-CD install then handles mounting and unmounting of the CDs but it does not handle ejecting the CDs. IBM AIX and some versions of Linux require that you manually mount and unmount CDs; Solaris automatically mounts the CD.

On AIX, to allow the multiple-CD install to work correctly, you must define a CDRFS file system in /etc/filesystems. For example, /mnt/cdrom has the entry:

```
/mnt/cdrom:
          dev      =      /dev/cd0
          vfs       =      cdrfs
          mount    =      false
          options  =      ro
          account  =      false
```

On Linux for zSeries systems, copy the Domino installation files as follows:

- Using a binary method to transfer the files, copy the files, Install, Install.dat, zlinux.taz.aa and zlinux.taz.aa.c, from the CD ROM at your workstation to a Linux on zSeries file system where they can be expanded and used for installation.

On z/OS systems, copy the Domino installation files as follows:

- Using a binary method to transfer the files, copy the files, Install, Install.dat, zos.taz.aa, zos.taz.aa.ck, zos.taz.ab, and zos.taz.ab.cks, from the CD-ROM at your workstation to a z/OS system where they can be expanded and used for installation.

### Sample runs of the multiple-CD install:

#### Case 1 -- AIX Multi-CD install from CD (2 CDs in the example set)

```
# mount /mnt/cdrom
# cd /tmp
# /mnt/cdrom/Install
Please enter the location for the unpacked install kit
Install kit location:
/local1/aixkit
Relocating CD 1 (1 of 2) contents to: '/local1/aixkit/CD_images'
Done with CD1 (1 of 2)
Remove current CD and insert the next CD
Press the RETURN or ENTER key to continue:
...Sleeping for 10 seconds to allow drive to settle...
Relocating CD 2 (2 of 2) contents to: '/local1/aixkit/CD_images'
Done reading/relocating all CDs.
Remove this last CD 2 (2 of 2)
Press the RETURN or ENTER key to continue:
Now verifying the saved tarfile contents...
Now unpacking the saved tarfile(s) contents...
Do you want to start Domino installation (interactive) now? (y/n)
n
*** Please perform the following commands to proceed with the installation:
      cd /local1/aixkit
      /local1/aixkit/install
*** Now exiting...
```

#### Case 2 -- Linux Multi-CD install - Copied from CD, installed, and ready to be run from the network (1 CD in the example set):

```
# mkdir /tmp/CD
# mount /mnt/cdrom
# cd /mnt/cdrom
# cp * /tmp/CD
# cd /tmp/CD
# umount /mnt/cdrom; eject
# ./Install
```

Please enter the location for the unpacked install kit  
 Install kit location:  
 /local2/inst  
 Relocating contents of CDS (1) to: '/local2/inst/CD\_images'  
 Done relocating all CDs.  
 Now verifying the saved tarfile contents...

Now unpacking the saved tarfile(s) contents..  
 Do you want to start Domino installation (interactive) now? (y/n)

```
n
*** Please perform the following commands to proceed with the installation:
      cd /local2/inst
      /local2/inst/install
*** Now exiting ...
#
```

Domino Administrator Client, Domino Server

### Installing Domino on UNIX and on Linux on zSeries

The Domino Administrator documentation contains the topic "Installing Domino on UNIX and on Linux on zSeries systems." The numbered procedure in that topic should be replaced with this new procedure:

1. Copy the following Domino installation files from the CD ROM at your workstation to a Linux on zSeries file system where it can be expanded and utilized for the installation steps. Be sure to transfer the file using a binary method. For example, for FTP, set the transfer mode to binary. Neither the tar file nor its contents are required after installation has completed:
  - install
  - install.dat
  - xlinux.taz.aa
  - zlinux.tax.aa.ck

Domino Web Access

### Installing Domino Web Access 7.0

DWA7.NTF is our latest, feature rich template available in Domino 7. The user visible name has changed to Domino Web Access 7. When registering users, choose Domino Web Access 7 as the mail file template.

To upgrade users, convert existing INOTES5.NTF, INOTES6.NTF and INOTES60.NTF users to DWA7.NTF using the mail conversion utility.

This example shows how to upgrade all INOTES6 mail databases in a directory:

```
load convert mail\*.nsf iNotes6 dwa7.ntf
```

This example shows how to upgrade all INOTES5 mail databases in a directory:

```
load convert mail\*.nsf inotes5 dwa7.ntf
```

**Note** If you execute a convert while the server is running and someone accesses a mail file while their mail file design is being updated, unpredictable results may occur.

Domino Access for Outlook

## Installing Domino Access for Microsoft Outlook

IBM Lotus Domino Access for Microsoft Outlook (DAMO) allows Microsoft Outlook 2000, Outlook XP, or Outlook 2003 users to connect to an IBM Lotus Domino Server running Domino 6.5.1 or higher. If you are upgrading from a 6.5.x version, please refer to the "Upgrading from 6.5.x to 7.0" instructions before installing.

For information on migrating users from Exchange to Domino, see the release note "Migrating from Exchange to Domino."

### Upgrading from 6.5.x to 7.0

Users can upgrade from Domino Access for Microsoft Outlook 6.5.x to release 7.0. However, if they are upgrading from 6.5.3 or earlier, the upgrade will continue to use a single data directory that allows multiple users to have profiles sharing that directory. To take advantage of the Multi-User Installation capabilities of DAMO 7.0, in which each user can have his or her own data directory, users must first uninstall DAMO 6.5.x, and then install DAMO 7.0. Before doing this, users may want to back up the existing \*.nsf, \*.pst, and \*.ost files as a precaution. The initialization process of the new installation will recreate the mail files locally.

During the upgrade users will be asked if they want to create a profile at the end of the upgrade process. If they choose No, they can create new profiles at anytime in the future by choosing "Create New MAPI Profile" from the Start - Programs - IBM Lotus Domino Access for Microsoft Outlook shortcut. **Note:** Users *cannot* create a DAMO profile using the Outlook Setup Wizard. They must use the "Create New MAPI Profile" shortcut on the start menu.

### Setting up Condensed Directories for Offline

Domino Access for Microsoft Outlook users can create a local replica of an address book to use when working offline, disconnected from the network. Using Domino Preferences in Microsoft Outlook, users can select an address book to take offline. It is strongly recommended that a condensed directory catalog is available for users to conserve space and improve the time it takes to replicate. For information about creating condensed directory catalogs, see the Domino Administration help topics on creating Directory Catalogs.

### Keeping Your Mail File Secure

There is new capability that allows for multiple users to share the same Domino Access for Microsoft Outlook installation. This type of installation, however, allows access to other users' .pst files because the .pst and .nsf files are local. Typically, in both a standard Notes environment and a standard Outlook environment, the mail file is on the server and the server controls access. And, if a user travels, typically he or she is the only user that has access to the laptop containing the local replica. But since DAMO requires all files to be on the local workstation, you need to protect your local mail data file (\*.pst) from others by assigning a password to your local data mail file. Additionally, the individual users can each have their private folder hierarchy as their data directory. For example: c:\Documents and Settings\

Microsoft Outlook 2000, Outlook XP, and Outlook 2003 each have a different method of assigning a password to the local data file. Please see the on-line help for your release of Outlook.

### DAMO 7.0 Installation Notes for Administrators

Before running the setup.exe that installs Domino Access for Microsoft Outlook, the user must be a registered Domino user and have the notes.id file available. Also, users need to know their user name as defined in the Domino directory and the IP address of their mail server.

Administrators can install Domino Access for Microsoft Outlook without end user involvement or end users can install it on their workstations. If end users are doing their own installs, you should distribute the "End User Installation" procedure below to end users, along with the sections on differences, known problems and migration Issues. This information is also available to users in the "Lotus Domino Access for Microsoft Outlook Installation and Setup Guide" on [www.Lotus.com/ldd/doc](http://www.Lotus.com/ldd/doc).

Although this product is for Microsoft Outlook users connected to Domino, access through any client connected to Domino is also available. Users can be configured using the standard administration tools provided with Domino, as long as the mail database design is Mail7.ntf, Mail7ex.ntf or DWA7.ntf. Mail files that use the Domino for Web Access 7 (DWA7.ntf) template can connect to their mail file on the Domino server using a browser, Domino Access For Microsoft Outlook, or a Notes client.

### Administrator Installation

If you are installing Domino Access for Microsoft Outlook on a workstation for an end user(s), you must be aware that Windows security is in play so that it is necessary to create the DAMO user's profile using the identity of that user. Creating a profile in any other way will hide that profile from the intended user.

There are two ways to create the users' profiles:

- The simplest method of creating user profiles is to *log on to the Windows workstation as the intended DAMO user*. In this way, using the steps below, there is the ability to create the data directory in the user's private folder (for example, c:\Documents and Settings\- An alternative method is to use the Windows RunAs functionality where a Windows Administrator can assume the identity of each user to create a DAMO profile.

**Note:** For a multi-user install, each registered user on the workstation must be a member of the Power Users group to be able to select their profile when DAMO starts.

### Silent Install

The Silent Install option installs Domino Access for Microsoft Outlook and creates a profile without end user involvement. This process uses the inherent InstallShield capabilities that calls a setup file containing the user's connection information to the Domino server.

For example, to set up Domino Access for Microsoft Outlook for multiple users on one workstation, the administrator can run Silent Install and assume the users' logon rights with the RunAs capability for each user.

There is one setup file for each user. The setup file is a text file that contains the following connection information:

```
-u <User Name> -s <Server IP address> -f <Full path to ID file> -p <id file Password>
```

For example:

```
-u Homer Simpson -s 1.11.11.111 -f c:\lotus\notes\data\homer.id -p 123456
```

The DAMO setup executable is called using the following syntax:

```
setup.exe /s /v"/qn SETUPFILE=<complete path to setup file>"
```

For example:

```
setup.exe /s /v"/qn SETUPFILE=c:\user\info.txt"
```

**Note:** The syntax must be exact. Notice that after /v there is no space before the quote. Also, there is a closing quote at the end of the line.

### Using RunAs on Windows XP

#### Option 1 - Using the Install Wizard

1. As the Windows Administrator, run setup choosing the desired options, including either the Single User or the Multi-User install options.
2. Choose to not create a profile.
3. Click Start - Programs - IBM Lotus Domino Access for Microsoft Outlook, and then right click on "Create New MAPI Profile."
4. Choose "Run As..."
5. In the Run As dialog, select "The following user:"
6. Enter the user's domain, user name, and password.
7. Enter the connection information as described in "Create a User Profile for DAMO."

#### Option 2 - Using the Silent Install

1. Open a DOS window (cmd.exe) by clicking Start - Programs - Accessories, and then right-click Command Prompt.
2. Choose Run As ...
3. In the Run As dialog, select "The following user:"
4. Enter the user's domain, user name, and password.
5. At the DOS prompt, enter the setup syntax as described in the "Silent Install" section above.

## Using RunAs on Windows 2000

### Option 1 - Using the Install Wizard

1. As the Windows Administrator, run setup choosing the desired options, including either the Single User or the Multi-User install options.
2. Choose to not create a profile.
3. Open a command prompt (Start - Programs - Accessories - Command Prompt)
4. Change to the program directory for Domino Access for Microsoft Outlook.
5. Run the executable file, dfosetup.exe, as the intended DAMO user using the following syntax:  
`c:\> RunAs /USER:"WinDomain\<DAMO User>" dfosetup.exe`
6. Create the profile using the connection information described in "Create a User Profile for DAMO" below.

### Option 2 - Using the Silent Install

1. Open a DOS window (cmd.exe) by clicking Start - Programs - Accessories - Command Prompt.
2. Use the RunAs command to open another DOS window so that anything run in that window will be run with rights of the user who opened that DOS window.  
`C:\> RunAs /USER:"WinDomain\<DAMO User>" cmd.exe`
3. From that new window run the install as that user:  
`setup.exe /s /v"/qn SETUPFILE=<complete path to setup file>"`
4. Although it is more complicated, the RunAs command can be used without the need to open a new DOS window. Use the following syntax, which is a combination of the Windows RunAs syntax (RunAs /?) and the Silent Install capability. **Note:** Because of the possible need for nested quotes, you may need to use an escape character (\) if spaces are involved.  
`C:\> RunAs /USER:"WinDomain\<DAMO User>" <path to DAMO setup.exe> /s /v\" /qn SETUPFILE=<path to setup file>\\"`  
 i.e.:  
`C:\> RunAs /USER:"ADomain\Homer Simpson" "C:\Temp\setup.exe> /s /v\" /qn SETUPFILE=C:\User\info.txt\"`

## Outlook 2000 Users

If you configured Outlook for Internet Only support, you must reconfigure Outlook for Corporate or Workgroup. To reconfigure Outlook run Outlook and select the menu Options --> Mail Services and select "Reconfigure Mail Support." You may be required to supply your Microsoft Office install CD for this operation.

## End User Installation

To install Domino Access For Microsoft Outlook (DAMO), you need to know the following:

- Your Notes user name (such as jsmith)
- The IP address of your mail server
- The location of your Notes ID

During installation, you choose whether to do a single user or a multi-user install on a workstation. **Note:** For a multi-user install, each person who uses the workstation must be a member of the Power Users group to be able to select their profile when DAMO starts. Only if you have administrative rights to the Windows workstation will you have the option to choose Single or Multi-User Installations. If you are not a member of the Windows administrator group, you will not get the option to choose Single or Multi-User Install. The Installation will be a Single User Install.

- Single User Install -- Choose this option if you are the only one who uses the workstation. In single user installs, the program and data files are in the same directory.
- Multi-User Install -- Choose the Multi-User Install option if more than one person uses the workstation. Multi-user installs allow the creation of data directories specific to each user, thereby providing some security for each.

**Note:** You must Configure Outlook using the steps below or Domino Access for Microsoft Outlook will not install properly.

### Configure Microsoft Outlook

1. Set Microsoft Outlook as the default mail program. For example, open the Control Panel and choose Internet Options. Select the Programs Tab - E-mail Option, and then select Microsoft Outlook. (This path may vary slightly depending on which Windows OS you are using and how you have your system set up.)

2. If this is a new installation of Microsoft Outlook for this user, launch the client as this user to complete the installation process of Microsoft Outlook.
  - a. Start - Microsoft Outlook shortcut
  - b. Accept the user name
  - c. Outlook 2k - Choose "Manually configure..." Make no more selections and click Finish
  - d. Outlook XP (2002) and Outlook 2003 - To the question "Would you like to configure an E-mail account?", choose No. Click Finish.
3. While Outlook is open, select Tools - Options - Mail Services and select the option "Prompt for a profile to be used."

#### Install DAMO

1. Execute the Setup Program.
2. Choose whether to install Domino Access for Microsoft Outlook for a single user (only one mail box is created) or multiple users (each user will have their own mail box). Only if you are the Windows administrator will you see these choices.
3. (Optional) Select Single Logon Feature to synchronize your Notes ID password with your Windows password. When passwords are synchronized, you can change either password and the change will be made to both passwords.
4. After the installation process is complete, you now need to create a DAMO profile. See *Create a User Profile for DAMO* below.

#### Create a User Profile for DAMO

You **cannot** create a DAMO profile using the Outlook Setup Wizard. You must use the "Create New MAPI Profile" shortcut on the start menu.

1. From the Start menu, choose Start - Programs - IBM Lotus Domino Access for Microsoft Outlook - Create New MAPI Profile.
2. For "Your Name," enter your Domino common user name. For example, jsmith not jsmith/sales/acme.
3. For "Domino server name," enter the name or the IP address of your mail server.
4. If you installed multi-user version, and you want your Data directory to be in a different directory than your program files, enter a path for your mail files in the "Data Directory" field. For example, c:\Documents and Settings\jsmith\DAMOData or c:\DAMO jsmith. **Tip:** You can use Windows folder security settings, to protect these folders as necessary.
5. If DAMO does not find your Notes ID in your Person Document on the Domino server, you may be prompted for one. Type the path or Browse to locate your Notes ID.
6. (Optional) Copy your Notes ID file to your data directory. (It is always good to have a backup copy of your ID file.)
7. Your DAMO profile will be created.

For information regarding the differences between using Notes and Microsoft Outlook, and known issues, see these related release notes:

- Domino Access for Microsoft Outlook issues
- Recurring meetings

See also the topic "Working with Domino Access for Microsoft Outlook" in the Domino Access for Microsoft Outlook help.

Domino Server, Domino for i5/OS

### Installing Domino 7 for i5/OS

#### Installing Lotus Domino 7 for i5/OS

If you have previously installed a Domino 7 beta release, you must first remove the beta software (DLTLICPGM 5733LD7), and then install Domino 7 for i5/OS.

Refer to the following sources of information for more details regarding the Installation of Domino 7 for i5/OS:

- the readme file that accompanies the electronic download (readme.txt)
- *Domino 7 for i5/OS HELP* (i400help.nsf)
- *Installing and Managing Domino 7 for i5/OS* (i400help.pdf).

### Upgrading from Domino R5

If you are planning to upgrade from Domino Release 5 to Domino Release 7, you must first upgrade your system from OS/400 V5R2 to i5/OS V5R3, and then install Domino 7. Domino R5 is not supported to run on i5/OS V5R3, but for the purpose of upgrading from Domino R5 to Domino 7, Domino R5 can reside on V5R3 after an OS upgrade and prior to the Domino 7 install. Once you install Domino 7, any existing Domino R5 servers will be automatically upgraded. Only upgrades from Domino 5.0.13 are supported.

### Installing on OS/400 V5R2 or i5/OS V5R3 with Domino Release 6

If you are planning to upgrade from Domino Release 6 on OS/400 V5R2 to Domino Release 7, you must first upgrade your system from OS/400 V5R2 to i5/OS V5R3, and then install Domino 7. Domino 7 for i5/OS may be installed on i5/OS V5R3 with Domino R6 already installed.

If your Domino release is 6.0, 6.0.1, or 6.0.2, then any existing Domino servers will automatically be upgraded when you install Domino 7. If your Domino release is 6.0.3 or 6.5.0 or later, then Domino 7 will be installed as a multi-version capable release and any existing Domino servers must be upgraded manually using the UPDDOMSVR CL command.

For more information about Multi-version capable Domino, refer to Chapter 12 Using Domino for i5/OS multi-version capabilities in the *Domino 7 for i5/OS HELP* (i400help.nsf) or *Installing and Managing Domino 7 for i5/OS* (i400help.pdf).

Domino for i5/OS

### CD batch installation

Domino 7 does not support the batch installation feature using the LODRUN command with physical media. The OS400/INTLENG/BATCH directory files were removed from the CD when the Domino product grew to require a second CD for installation.

Domino Server

### Display issue with server's Japanese license agreement dialog

If you are using the Japanese locale on Windows 2000, and are having problems viewing the license agreement, changing your default language to also be Japanese should correct the issue. This is not an issue on Windows 2003.

Domino Server

### DOLS install on Linux Mozilla

For this release of Domino 7, the download and installation of Domino Offline Services (DOLS) may take several minutes to complete.

Domino Administrator Client, Notes Client, Domino Designer

### For verification of a silent install, add "+" to the command

To display a prompt when the installation is complete, or when it fails, use the (+) parameter at the end of the command. Here is an example:

```
setup.exe /s /v"/qn+"
```

Domino Administrator Client, Domino Server, Domino for z/OS

### New default install directory for Domino on UNIX

On UNIX platforms, the default installation directory for Domino 7 is /opt/ibm/lotus. If an installation directory is detected during an upgrade to Domino 7, the existing installation directory is used. For previous versions of Domino, the default directory on UNIX platforms was /opt/lotus.

**Note** As in previous releases, the default Domino installation directory can be modified to support any third-party applications which may rely on a particular directory path.

Notes Client, Domino Designer, Domino Server

### Notes.jar and other Java archives moved

In previous releases, Notes.jar and many of the other Notes archives were being installed into the Notes or Domino program directory. Now, most of the Notes Java archives are being installed in a new location to take advantage of Java's Extension Class Loading mechanism.

Notes.jar will now be installed in the Notes or Domino program directory under the `jvm\lib\ext` (Windows) or `jvm/lib/ext` (UNIX) directories. This is Java's Extension directory, and archives copied there will be automatically added to the classpath.

This is also the suggested way of adding external application code so it can be used by Notes or Domino java applications.

Also starting with the 7.0 release, Notes.jar contains all the classes necessary to support access to the Domino back-end classes through the local interface, and through the CORBA-remoted interface. Or, stated another way, the contents of NCSO.jar have been included in Notes.jar, and if your application needs to use either style it only needs access to Notes.jar.

NCSO.jar still ships with the 7.0 release, and it provides only the CORBA-remoted interface to the back-end classes.

Domino for i5/OS

### Remove any Beta versions before installing

Before installing Domino 7 software, you must remove any beta or pre-release versions. To remove the beta or pre-release version, make sure that all Domino servers are stopped and no users are running any Domino CL commands (i.e., WRKDOMSVR). Enter the following command to remove any beta or pre-release version of Domino 7:

```
DLTLICPGM LICPGM(5733LD7)
```

Domino Administrator Client, Notes Client, Domino Designer

### Renaming desktop icons will have to be manually deleted

After installing the Client, new desktop shortcuts will be created for the Notes, Designer, and Administrator Clients. If you rename these desktop icons to customize them, you will need to manually delete them after uninstalling the Client. If you are upgrading an existing install that currently has desktop shortcuts that have been renamed, the old shortcuts will no longer work. Simply remove them from your desktop and use the newly created shortcuts.

Domino Administrator Client, Notes Client, Domino Designer

### Scriptable Client Setup & the 'AdditionalServices' variable

The Scriptable Client Setup feature provides the **AdditionalServices** variable to enable/disable appearance of the 'Additional Services' dialog during a new Client Setup. This variable works in conjunction with the variables for features that are configured via the Additional Services dialog. As a result, this variable is tied to use of the related variables (Internet Mail account, NNTP account, LDAP account, Proxy servers, and Replication).

Specifically, here are some examples of how the AdditionalServices variable works in a configuration file:

- **AdditionalServices=1** --> the Additional Services dialog will always display during a new Client Setup, regardless of other variables in the configuration file. If the configuration file contains some or all of the related variables, the fields will display the configuration file's data value in each field. If a certain variable is missing from the configuration file, the field will be blank. In all cases, the user can either leave the field value intact or change the field value.
- **AdditionalServices=-1** --> Setting a value of AdditionalServices = -1 (minus 1) in the config file will suppress the additional services dialog, regardless of other variables in the configuration file.
- **AdditionalServices=0** --> the AdditionalServices dialog will not display as long as sufficient configuration information is supplied for one or more of the related variables.

Sufficient configuration information:

Internet mail-

- First check to see if there are entries for Incoming Server and Outgoing Server. [mail.incoming.server & mail.outgoing.server]
- on the InternetProtocolPane check for a POPServerName entry. [takes the same name as above]
- on the InternetMailLoginPane check for a username. [mail.incoming.username]
- on the InternetAddressPane check for IEmailAddress [mail.outgoing.address] and the SMTPServerName.

NNTP or LDAP- must have server

Proxy - must have HTTP proxy

Reply - must have enable OR threshold

Here are some examples:

- If the configuration file contains all of the variables for all possible accounts/settings, then the Additional Services dialog will not display during a new Client Setup
- If the configuration file contains all of the variables for the referenced accounts/settings, then the Additional Services dialog will not display during a new Client Setup
- If the configuration file does not contain any of the related variables, the Additional Services dialog will display during a new Client Setup
- If the configuration file contains variables to set up an internet Mail account, but is missing a sufficient information to configure the account (ex. the **Mail.Incoming.Server** variable), the Additional Services dialog will display during a new Client Setup.

Domino Administrator Client, Notes Client, Domino Designer

### Scriptable Client Setup: 'File cannot be created' error

When performing a new Client Setup using the Scriptable Client Setup feature, you may receive this error: **File cannot be created**. This occurs if the **KeyFileName** variable in the configuration file is pointing to a drive that is not accessible on this machine. For example, if the user id file is located on a network drive and the user does not have access to the drive, this error will result. To work around this, either correct the drive access problem for the user or move the user's id file to another location & update the configuration file to reflect the new path.

Domino Administrator Client, Notes Client, Domino Designer

### Scriptable Client: Setup for Roaming Users

Some special factors should be taken into consideration when using the Scriptable Client Setup feature for Roaming Users. Because the Roaming User is configured to store many settings in their roaming databases, some Scriptable Client Setup variables may not be ideal for use in combination with Roaming Users. Below are some examples:

- It is recommended that the **KeyFileName** variable not be used for Roaming User Client Setups. This variable is used to point to a specific user's ID file. Since the Roaming User's ID file is stored in their roaming address book, the id file will be automatically pulled from this roaming database during a Client Setup. As a result, this variable is irrelevant for Roaming User Client Setups.
- There are unique issues for Roaming Users who have an NNTP or IMAP Internet Account, as described in the "**Roaming Users with NNTP or IMAP Internet Accounts**" release note. Please reference this release note for specific details before including these account types in a Script that will be used for Roaming Users.
- If the network dialup account information differs on each user's machine, use of the **NetworkDial.\*** variables should be well thought out to assure the values will work on *all machines* for the user. Specifically, if the user has a Windows Client & a Macintosh Client, network dialup for the Internet Accounts will not work on both machines for this user (network dialup is not supported on Macintosh). In addition, if the dialup phonebook name is not identical on all machines, dialup may fail because it cannot locate the phonebook entry.
- If you fail to set the **Replication.Schedule** variable to 1 for a *first time* Roaming User Client Setup, replication will not be enabled for this roaming user. As a result, the user's local files will not automatically replicate to the server on launch & exit of the Notes Client. To work around this, the user can edit their location document(s), enable replication, & enable the 'Replicate when Notes starts' and 'Prompt to replicate when Notes shuts down' options.

Domino Administrator Client, Notes Client, Domino Designer

### Scriptable Client: Setup & deployment to multiple users

Some special factors should be taken into consideration when using the Scriptable Client Setup feature. Because this feature can be used to roll out a standard configuration to multiple users, care should be taken when using certain variables. Below are some examples:

- It is recommended that the **KeyFileName** variable not be used unless the configuration file is intended for one specific user. This variable is used to point to a specific user's ID file. As a result, if the configuration file is used to standardize Client Setup for many users, this variable does not apply.
- It is recommended that the **Mail.Incoming.Username** and **Mail.Incoming.Password** variables not be used unless the configuration file is intended for one specific user. These variables are unique to each user. As a result, if the configuration file is used to standardize Client Setup for many users, these variables do not apply.
- It is recommended that the **NetworkDial.EntryName**, **NetworkDial.Username** and **NetworkDial.Password** variables not be used unless the configuration file is intended for one specific user. The **NetworkDial.EntryName** must be exact to the phonebook entry on the users' machines. If the dialup phonebook name is not identical on all users' machines, dialup may fail for some users because it cannot locate the phonebook entry. The **NetworkDial.Username** and **NetworkDial.Password** are unique to each user. As a result, if the configuration file is used to standardize Client Setup for many users, these variables do not apply.

Domino Administrator Client, Notes Client, Domino Designer

### Select Migrations Tools to "run from network" for shared install

If you are selecting to install the Migrations Tools when doing an end user installation from an admin image (shared network installation), select one of the "run from network" options:

This feature will be installed to run from network.

This feature, and all subfeatures, will be installed to run from the network.

If you select one of the "installed on local hard drive" options you may not be able to successfully uninstall the shared client receiving an error similar to:

Error 1315. Unable to write to the specified folder  
<path to network share>\Program Files\Lotus\Notes\.

Domino Administrator Client

### Shared uninstall fails w/ Admin Migrations Tools installed

If you are selecting to install the Admin Migrations Tools when doing an end user installation from an admin image (shared network installation), you will not be able to successfully uninstall the shared client receiving an error similar to:

Error 1315. Unable to write to the specified folder  
<path to network share>\Program Files\Lotus\Notes\.

It is suggested that administrators use a transform to hide this install option.

### Workaround

If a user is in this situation the following can be done to all the end user to successfully uninstall the end user installation:

1. Make a backup copy of the network share
2. Temporarily grant the end user full control of the read-only network share
  - This will allow the uninstall to successfully complete as it's failing on the removal of a few shared network files
3. End user completes a successful uninstall
4. Remove the temporary access
5. Restore the backup copy of the network share

Domino Administrator Client, Notes Client, Domino Designer

### Single logon: Admin rights restart after install/upgrade/repair

You need to have Administrator rights on your operating machine in order to install the "Single Logon" feature. If you have selected the "Single Logon" feature during a Notes Client installation, simply restart your computer to enable the "Single Logon" feature. You will no longer be prompted to enter a password when launching the Notes Client.

If you upgrade or repair a Notes Client, you also need restart your computer to enable the "Single Logon" feature again.

Domino Administrator Client, Notes Client, Domino Designer

### Single Logon: Feature upgrade and disable

If you currently have an existing Single Logon Notes install you'd like to upgrade, it is advised that you enable Client Single Logon again during the upgrade.

If you no longer would like this feature enabled on your operating machine, please uninstall the Single Logon feature (Modify or upgrade).

Domino Server

### Specify the Server Controller as an NT service at installation

If you wish to change the parameters of the Server controller, you can then use the SC tool (Sc.exe) included in the Resource Kit. See Microsoft Knowledge Base Article - Q251192 at <http://support.microsoft.com/default.aspx?scid=kb;en-us;Q251192>

To add the -jc to a standalone server installed as a service you would do:

```
sc config "Lotus Domino Server (lotusdominodata)" binPath= "c:\lotus\domino\nservice.exe  
=c:\lotus\domino\notes.ini -jc"
```

This is of the form: sc <server> [command] [service name] <option1> <option2> . . .

Domino Administrator Client, Notes Client, Domino Designer

### To enable Progress Bar during silent Client install

If you'd like to see a progress bar display on your screen during a silent install of the Lotus Notes Client, use the switch **/qb** in the command line.

Domino Administrator Client, Notes Client, Domino Designer

### Upgrading Lotus Notes must be to the same directory

There can be only one registered Lotus Notes client in your registry, per operating system. Lotus does not support having multiple Lotus Notes installs on the same operating system. If you currently have an install on your operating system, and attempt to install a newer version, you must install the newer version to the same program and data path (upgrading the existing install), otherwise, you will need to uninstall the older version of Lotus Notes before installing the newer one.

Domino for i5/OS

### Wire protocol drivers installed with Domino

Lotus Branded DataDirect Connect for ODBC consists of a number of database drivers that are compliant with the Open Database Connectivity (ODBC) specification. The drivers enable you to connect to a variety of relational databases.

The user is no longer required to download and install the drivers.

Starting with Domino 7 and Domino 6.5.3, the Lotus Branded DataDirect Connect for ODBC wire protocol drivers are installed by the Domino installation program to the directory `/QIBM/ProdData/Lotus/DOMINOxxx/EITODBC/`, where `DOMINOxxx` is the directory corresponding to the release of Domino (for example, `DOMINO700` for Domino 7.0).

## Migration notes

Domino Access for Outlook

### Internet Access and the Outlook Express Migration tool

The Outlook Express migration tool uses short names to connect to the server. In order to use this tool, you must make sure of the proper internet access settings in the Server Document, under the Security tab.

In the Internet Access section, select: **Internet authentication: More name variations with lower security**

This will allow Outlook Express users to use the Migration tool and connect to the Notes Mail Server.

Domino Access for Outlook

### Migrating from Exchange to Domino

Use the following step-by-step instructions to migrate users and their mail files from Microsoft Exchange to Lotus Domino using the Domino Migration Tool.

#### Prerequisites and requirements

- You must have an admin.id and a cert.id for the Domino server.
- You must set up an Administrator profile in Outlook for the Exchange server.
- Microsoft Exchange must be installed as a Foreign Directory Source (part of the Administrator install).
- You must use the Extended Mail Template (Mail6ex.ntf) for all migrated Domino mail files.

#### Migration tips

When migrating very long distribution lists (i.e., several hundred users) in the address fields (such as the To, CC or bcc fields), the distribution list may be truncated or missing altogether when viewed in the Notes or DAMO client. The distribution list truncates after 768K, and depending on the amount of system memory available, the distribution list may be empty. The latter issue is an Exchange restriction, and is intermittent.

Make sure users have not renamed the standard Outlook folders in their Exchange mail file prior to migrating from Exchange to Domino. If a user renames a standard Outlook folder, the data in that folder may not migrate correctly. The standard Outlook folders are: Calendar, Contacts, Drafts, Inbox, Journal, Notes, Outbox, Sent Items, and Tasks. For example, if a user renamed the Outlook folder Inbox to "MyFavoriteInbox," the messages in the "MyFavoriteInbox" folder would not display and function properly after migration.

Contacts migrated from an Exchange mail file to Domino will appear in the Contacts view, but will not be migrated to a separate .nsf file as in previous releases. A document with the subject "Exchange contacts have been migrated to Domino" will appear in the All Documents view instructing the user how to replicate the Contacts to a local Personal Name and Address book.

If the body of an Outlook message in RTF format has been corrupted, the body is converted as text only when the mail file is migrated from Exchange to Domino. In this case, some attachments present in the Outlook message may not be present after migration, when viewed through the Notes or Domino Access for Microsoft Outlook client.

#### Installation

Start the Domino Administrator Client, then follow these steps to migrate users and their associated mail stores from Exchange to Domino.

1. From the Domino Administrator client, select the People and Groups tab.
2. From the Tools pane, click People, and then click Register - Migrate People.
3. When the Migrate People dialog opens, select Microsoft Exchange Users from the Foreign Directory Source.
4. When prompted, enter the profile of the administrator for the Exchange server from which you are migrating.
5. From the drop-down list of Exchange users, select all users to migrate and add to the People and Groups to Migrate list, then select Migrate button. Note that you can modify the migration options (for example, you can elect not to have a password created), or simply use the default settings.
6. Click Done. The entire list is added to the registration queue in the Register Person dialog.
7. In the Register Person dialog, click Register All. When you do this, all users are added to the Domino Directory (public Name & Address Book) and their mail files migrated.

### **Convert Microsoft Exchange addresses to Domino addresses**

After migrating all users, ensure that all addresses are converted from Exchange to Notes canonical format (such as CN=John Smith/OU=Sales/O=Acme), using the Mail Convert tool. Note that this tool only converts the addresses of Microsoft Exchange users who exist in the Domino Directory. If you continue to migrate smaller groups, run this tool each time a group is migrated.

Complete the following steps to convert Microsoft Exchange addresses to valid Domino addresses:

1. For the address conversion process to work correctly, the cache for NAB entries on the Domino Server which is used for Exchange Mail to Domino migration **must** be current. Perform the following task on the Domino Server Console to make sure the cache is updated and current:

```
tell router q
load updall <Domino Address Book> (e.g., 'load updall names.nsf')
load router
```

2. To perform the address conversion on all migrated mail files on the Domino Server (in the \mail subdirectory), type the following on the Domino Server Console:

```
load convert -w mail\*.nsf
```

#### **Other available commands**

##### **load convert -w <specific mail file path>**

Use this command to run the Address Fix on a specified migrated mail file. For example: `load convert -w mail\chair.nsf`

##### **load convert -w -l <text list file path>**

##### **load convert -w -l c:\tmp\mailfilelist.txt**

Use the first command to generate a text list file with all migrated primary mail file paths on the server, excluding any replica mail databases. You can then run the Address Fix by using the second command with that text file.

##### **load convert -w -f <text list file path>**

Use this command to run the Address Fix on all migrated mail files listed in the specified text file. For example: `load convert -w -f c:\tmp\mailfilelist.txt`

For troubleshooting information on migrating from Exchange to Domino, see the release note "Troubleshooting the Exchange to Domino Migration." For a complete list of Domino Access for Microsoft Outlook issues, including migration issues, see the release note "Domino Access for Microsoft Outlook issues."

## **Upgrade notes**

Domino Administrator Client, Notes Client, Domino Server

### **Flat names and ID files are not supported in Domino and Notes 7**

Notes 7 and Domino 7 do not support flat name and flat ID usage, renewal, or registration. As you upgrade to 7.0, you should convert all flat names to hierarchical names. IBM Lotus will continue to support flat names in Release 6 at the level at which they are currently supported. However, there are no plans to extend existing functionality that requires hierarchical names to flat names, and new features continue to be added that depend solely on hierarchical naming. Furthermore, future functional releases of Notes and Domino will have limited interoperability with users and server with flat names and ID files.

Continuing to use flat names prevents you from using many of the new features in Lotus Notes and Lotus Domino 6 and 7, including the Domino Administration Process, which simplifies many administrative tasks. Using flat names makes it difficult to exchange information securely with users and servers in a different organization. With flat names, each user or server in one organization must be individually certified by the certifier ID in the other organization. Organizations that use flat names often use several certifier IDs and each user ID and server ID can include a separate certificate generated by each flat certifier ID.

For more information on converting flat names, see the topic "Converting flat names to hierarchical names" in the Domino Administrator 7 Help.

Domino Administrator Client, Notes Client, Domino Designer

### Online Help after upgrade of Notes, Admin Client, and Designer

If you have upgraded to the Gold version of Lotus Notes 7, Domino Designer 7 or Domino Administrator Client 7, and you have not removed a previous beta build of Notes/Domino 7, you should take the following actions to ensure your local help databases will be full-text indexed properly:

Take these actions from the Application UI:

1. Open Help.
2. Select the File menu, Properties
3. On the Database Properties dialog, click the Full Text tab (magnifying glass)
4. Click the Delete button.
5. If there was a full-text index from a older Notes/Domino 7 help file, it will be deleted.
6. If there was no full-text index, you will be notified with a message dialog (no harm done).
7. Close the Database Properties dialog
8. Recreate your Help file Index from the Help application, if desired.

Or, take these actions from Windows Explorer:

1. Navigate to your Data folder
2. Open the Help folder within the Data folder
3. If present, delete the folder with the same name as your Help database, with an extension of ".ft."  
This folder contains the files for the full text index of your Help database.
4. Recreate your Help file Index from the Help application, if desired.

The Help (User Assistance) databases are named per the software release version (e.g., for Notes/Domino 7, the name of the Notes Client help database is help7\_client.nsf). If you are upgrading from a previous version of Notes, Domino Administrator Client, or Domino Designer, your new Help database will not be full-text indexed until you take this action.

Domino for i5/OS

### Sametime customization saved to STLINKS.SAV on upgrade

The Domino server's data directory `<data dir>/domino/html/sametime/stlinks` was added in releases 6.0.5/6.5.4 and also exists in Domino 7.0. This directory did not exist in 6.5.3 and prior releases. This directory contains files that enable Sametime integration with Domino Web Access (DWA) and files in this directory may be customized to support tunneling.

When a Domino server is upgraded to release 7.0, any files in the existing `<data dir>/domino/html/sametime/stlinks` directory are copied to a backup directory called `<data dir>/domino/html/sametime/stlinks/stlinks.sav` in order to save any potentially customized settings.

The server upgrade process occurs:

- during install for servers that are not multi-version capable (Domino 6.0.2 and earlier)
- after install when the UPDDOMSVR command is run for a multi-version capable server (Domino 6.0.3/6.5.0 and later)

Files will only be copied to the `stlinks.sav` subdirectory during upgrade if the `stlinks.sav` directory is empty or does not exist. That is, if an install/upgrade occurs more than once for the same server the copy of the files to `stlinks.sav` will only occur during the first install/upgrade.

If you make additional customizations to the files in `stlinks`, be sure to either copy the new customizations to `stlinks.sav` or remove all files from `stlinks.sav` so that a subsequent install/upgrade will copy the latest files to the backup directory.

Notes Client, Domino Server

### SmartUpgrade Web kits command line options

To accommodate customers who require access to the install kits that are bundled into the self-extracting executable files that make up the Web kits, we have modified the default behavior of extracting the executable files from the Web kits. The Web kits now prompt you for a temporary location in which to store the extracted files. This change may have a negative impact on existing automated install methods, for example, it may cause SmartUpgrade to fail.

You can prevent this change to the install kits from impacting your current install methods by preventing the Web kits from issuing the prompt for a temporary location.

From the Domino command line, use the command line option:

`-px` or `/px`

For example enter

`setup.exe -px`

Or

`setup.exe /px`

When the install finishes, the Web kits no longer automatically delete the extracted files from the temporary directory. To remove extracted files, from the Domino command line, use the command line option

`-d` or `/d` to

For example

`setup.exe /d /px`

For more information, see this Web site:

[http://helpnet.installshield.com/robo/projects/pftw/Passing\\_command\\_line\\_options\\_to\\_the\\_package.htm](http://helpnet.installshield.com/robo/projects/pftw/Passing_command_line_options_to_the_package.htm)

## Configuration notes

Notes Client

### Autosave - Clean up autosave.nsf from pre-release installation

If you have an existing Autosave.nsf on your system which was installed for Beta use or a pre-release install, please delete it, then restart Notes. A corrupted autosave.nsf can be cleaned up by simply deleting it and letting the Notes client re-create it.

Domino for i5/OS

### Choose the format of HTTP log files.

HTTP log files are written in EBCDIC format by default on the i5/OS platform. You can change the format of these files to ASCII by setting the following in the Notes.ini file. The setting will take effect the next time the server starts or when HTTP starts again (for example, "tell http quit" then "load http").

```
HTTPLogFormatAscii=1
```

If HTTPLogFormatAscii is not present in the Notes.ini file or if the setting is HTTPLogFormatAscii=0 then the HTTP log files will revert to their default EBCDIC format.

Domino Server

**Console logging default state is "On"**

"The default setting for console logging is now "ON", with a minimum 1K log file size. If the user later specifies the CONSOLE\_LOG\_ENABLED Notes.INI setting, or enables logging via the server console command, then the default console log size is changed to unlimited, unless the Notes.INI command CONSOLE\_LOG\_MAX\_KBYTES is also set.

The user can disable console logging entirely by specifying "CONSOLE\_LOG\_ENABLED=0".

Domino Server

**Domino for AIX configuration**

Recommended that /etc/security/limits be modified for each Domino Server Partition userid (domsrv in this example) to the following values:

domsrv:

```

fsize = -1
core = -1
data = -1
rss = -1
stack = -1
nofiles = -1

```

Make these be "unlimited" for the userid and Domino Server programs.

Domino Server

**Domino for Linux on x86 configuration****Increasing the per-process filehandle limit**

By default, the Linux kernel limits the number of file descriptors that any one process can open; the default is 1024. This limit includes socket file descriptors that are opened during basic client/server communications, therefore is too restrictive for the Domino process. Do not assume that having fewer than 1024 databases (or files) in the Domino data directory is an indicator of the maximum number of open file descriptors that Domino will require. In order to scale above "tens" of client connections, this default must be overridden by the Linux administrator.

The mechanism for overriding the default varies depending on how the Domino server is started. There are 2 basic scenarios:

**1. Domino is started from a login session**

For this case, the default must be overridden by modifying the file **/etc/security/limits.conf** AND insuring it is respected by the login. Edit **/etc/security/limits.conf** using root and add or modify the lines:

```

domsrvr soft nofile 20000
domsrvr hard nofile 49152

```

where "domsrvr" is an example of the user id that will run the Domino server. Specify the UNIX user name in the first column that is the owner of the notesdata directory specified during Domino installation. If more than one Domino partition exists on the same Linux for zSeries platform, repeat these lines for each user id. The "soft" value specifies the new default file descriptor limit (ulimit -n), and the "hard" value specifies the maximum file descriptor limit that may be set by the user.

In order for these limits to be respected following logon, insure the following line is in the appropriate **pam.d** login file:

```

session    required    /lib/security/pam_limits.so

```

For example, if **ssh** login is used, this line must appear in **/etc/pam.d/ssh**

If **telnet** is used, this line must appear in **/etc/pam.d/login**

If **rlogin** is used, this line must appear in **/etc/pam.d/rlogin**

The user id must login after the above changes are made and saved.

## 2. Domino is automatically started through /etc/init.d

Starting a Domino server automatically when Linux is booted is typically accomplished by executing a script which resides in the /etc/init.d directory (in a "runlevel"). It is worth noting, however, that **/etc/security/limits.conf** settings are NOT respected when Domino is automatically started by a **/etc/init.d** script. Therefore, a line such as the following **MUST** appear in the "start" section of such a script:

```
ulimit -n 20000
```

**Warning:** Always make **/etc/security/limits.conf** change ( 1. above) in addition to modification of the "start" script. Otherwise, on the occasion that Domino is started from a login session, the file descriptor limit will be inadequate.

### **Kernel values modified by Domino**

In addition to the above, other Linux kernel value changes are needed for large scale Domino environments. Unlike the per-process filehandle limit, which must be modified before logon of the Domino user id, these values can be modified by Domino itself. At startup, a program named "tunekrnl" runs with root authority and sets these values in the /proc filesystem. Once set, these /proc values will not change until Linux is (re)booted, at which time they revert to their default values. The exception to this is "mapped\_base", which is a process-local setting made at each Domino startup. The "tunekrnl" log of /proc filesystem changes tends to vary from many (following a Linux boot) to few (subsequent Domino startups). The kernel values modified by "tunekrnl" are:

kernel parameter	default value	tunekrnl value	description
/proc/sys/fs/file-max	(as low as 8192)	131072	maximum number of system-wide file descriptors
/proc/sys/kernel/sem	250 32000 32 128	250 256000 32 1024	shared semaphore allocation sizes and limits
/proc/sys/kernel/shmmax	32 M	256 M	maximum shared-memory segment size
/proc/sys/net/ipv4/tcp_fin_timeout	60	15	retransmission timer for a FIN (socket close) in seconds
/proc/sys/net/ipv4/tcp_max_syn_backlog	1024	16384	maximum value of the listen() connection backlog
/proc/sys/net/ipv4/tcp_tw_reuse	0	1	1 enables "time-wait assassination" allowing for rapid re-use of sockets
/proc/sys/net/ipv4/ip_local_port_range	32768 61000	1024 65535	increases the range of port values available for connect()
/proc/<pid>/mapped_base	1 Gigabyte	16 Megabytes	"floor" address value above which memory allocations may occur on SLES

Domino Server

### **Domino for Linux on zSeries configuration**

A detailed reference for the planning, installation, and configuration of Domino for Linux on zSeries can be found in the Redbook **"IBM Lotus Domino 6.5 for Linux on zSeries Implementation"** found here:

<http://www.redbooks.ibm.com/abstracts/sg247021.html>

While written for an earlier Domino release, the planning considerations and task descriptions still apply to this release.

### **Increasing the per-process filehandle limit**

By default, the Linux kernel limits the number of file descriptors that any one process can open; the default is 1024. This limit includes socket file descriptors that are opened during basic client/server communications, therefore is too restrictive for the Domino process. Do not assume that having fewer than 1024 databases (or files) in the Domino data directory is an indicator of the maximum number of open file descriptors that Domino will require. In order to scale above "tens" of client connections, this default must be overridden by the Linux administrator.

The mechanism for overriding the default varies depending on how the Domino server is started. There are 2 basic scenarios:

### 1. Domino is started from a login session

For this case, the default must be overridden by modifying the file `/etc/security/limits.conf` AND insuring it is respected by the login. Edit `/etc/security/limits.conf` using root and add or modify the lines:

```
domsrvr soft nofile 20000
domsrvr hard nofile 49152
```

where "domsrvr" is an example of the user id that will run the Domino server. Specify the UNIX user name in the first column that is the owner of the notesdata directory specified during Domino installation. If more than one Domino partition exists on the same Linux for zSeries platform, repeat these lines for each user id. The "soft" value specifies the new default file descriptor limit (ulimit -n), and the "hard" value specifies the maximum file descriptor limit that may be set by the user.

In order for these limits to be respected following logon, insure the following line is in the appropriate `pam.d` login file:

```
session      required      /lib/security/pam_limits.so
```

For example, if `ssh` login is used, this line must appear in `/etc/pam.d/sshd`

If `telnet` is used, this line must appear in `/etc/pam.d/login`

If `rlogin` is used, this line must appear in `/etc/pam.d/rlogin`

The user id must login after the above changes are made and saved.

### 2. Domino is automatically started through `/etc/init.d`

The redbook "**IBM Lotus Domino 6.5 for Linux on zSeries Implementation**" discusses this procedure in detail (Chapter 9, Section "Automating Domino startup and shutdown"). It is worth noting, however, that `/etc/security/limits.conf` settings are NOT respected when Domino is automatically started by a `/etc/init.d` script. Therefore, a line such as the following MUST appear in the "start" section of such a script:

```
ulimit -n 20000
```

**Warning:** Always make `/etc/security/limits.conf` change ( **1.** above) in addition to modification of the "start" script. Otherwise, on the occasion that Domino is started from a login session, the file descriptor limit will be inadequate.

### Kernel values modified by Domino

In addition to the above, other Linux kernel value changes are needed for large scale Domino environments. Unlike the per-process filehandle limit, which must be modified before logon of the Domino user id, these values can be modified by Domino itself. At startup, a program named "tunekrnl" runs with root authority and sets these values in the `/proc` filesystem. Once set, these `/proc` values will not change until Linux is (re)booted, at which time they revert to their default values. The exception to this is "mapped\_base", which is a process-local setting made at each Domino startup. The "tunekrnl" log of `/proc` filesystem changes tends to vary from many (following a Linux boot) to few (subsequent Domino startups).

The kernel values modified by "tunekrnl" are:

kernel parameter	default value	tunekrnl value	description
/proc/sys/fs/file-max	(as low as 8192)	131072	maximum number of system-wide file descriptors
/proc/sys/kernel/sem	250 32000 32 128	250 256000 32 1024	shared semaphore allocation sizes and limits
/proc/sys/kernel/shmmax	32 M	256 M	maximum shared-memory segment size
/proc/sys/net/ipv4/tcp_fin_timeout	60	15	retransmission timer for a FIN (socket close) in seconds
/proc/sys/net/ipv4/tcp_max_syn_backlog	1024	16384	maximum value of the listen() connection backlog
/proc/sys/net/ipv4/tcp_tw_reuse	0	1	1 enables "time-wait assassination" allowing for rapid re-use of sockets
/proc/sys/net/ipv4/ip_local_port_range	32768 61000	1024 65535	increases the range of port values available for connect()
/proc/<pid>/mapped_base	1 Gigabyte	16 Megabytes	"floor" address value above which memory allocations may occur on SLES

### Swap configuration for Linux on zSeries

SLES8 (31-bit) supports up to 2 Gigabytes of memory; a Domino server supporting thousands of users will typically require more than 2 Gigabytes of memory, causing swapping to occur in this environment. At least 1 Gigabyte should be allocated as a swap "disk", however actually swapping to disk (DASD) hinders performance. One mechanism to keep swapping within system memory is XPRAM. The following general steps are an example of the configuration of 1 Gigabyte of XPRAM for Linux on zSeries in a native environment:

1. Configure at least 1 Gigabyte extended memory from the hardware console. Linux on zSeries will automatic detect that.
2. Configure the xpram driver.
3. The following Linux commands set swap space 1G from a 3G partition that was made into a file system and mounted off of the xpram\_fs directory:

```
insmod xpram devs=1 sizes=2000000
mkswap /dev/slram0
swapon /dev/slram
```

4. Make sure the xpram swap has higher priority than other disk swap.
5. Note that these settings will disappear on a reboot. To keep them active, place these commands into **/etc/init.d/boot.local**

64-bit native environments, such as SLES9 (64-bit), should be configured with more than 2 Gigabytes of real memory rather than dedicating the memory resource to XPRAM. In these environments, Linux swap should still be configured, however routine swapping is not expected and using disk for the swap region is acceptable.

Domino Server

### Domino for Solaris configuration

/tmp must be configured as TMPFS (this is the default configuration for Solaris 9). In addition, the following line must be added (or modified if already set) to the **/etc/system** file:

```
set rlim_fd_max=65536
```

This is the minimum required value - higher values are supported. As root, make the change as specified above, and then reboot the system.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

### Domino memory pre-allocation configuration

There is now code in Domino which, when enabled, will instruct Domino to pre-allocate shared memory at startup, thus preventing the possibility of the server "crashing" with an error of the type "Error attaching to shared memory" or "Error on mapping memory" during extended Domino server operation. This is due to the fact that at Domino startup, we will immediately allocate/map in our maximum amount of useable shared memory and never again create any more shared memory, thus preventing the possibility of a later process allocating shared memory that other processes cannot map into their address space. The downside of this is that we will always automatically use up this amount of virtual memory for shared memory and thus will be capped on available local memory based on the addressable memory available to Domino on the operating system.

For example, with this code enabled, on Windows we will pre-allocate 1.5 GB of shared memory (default setting for Constrained Shared memory, changeable via ConstrainedSHMSizeMB notes.ini setting) and with an addressable memory of 2 GB (default value for Windows to match default setting of OS, changeable via MEM\_AddressableMemSizeMB notes.ini setting and OS configuration) that only leaves 512mb for local memory. The upside is that running out of memory either in shared or local will not crash the server (or should not), whereas the inability to map shared memory always will.

This new code is off by default and must be enabled by setting MEM\_EnablePreAlloc=1 in notes.ini.

In order for this new code to work, we had to enable the sub-allocation of shared memory when pre-allocation is turned on (can be manually enabled if desired and do not wish to pre-allocate by setting MEM\_EnableSubAlloc=1 in notes.ini; Sub-allocation is only on by default on AIX). With sub-allocation, we create shared memory as large "segments" and then sub-allocate our memory pools out of them. For example, on Windows the size for a "segment" is ~200MB (default setting for sub-allocate Shared Memory segment size, changeable via MEM\_SHMSubAllocSize (in bytes) notes.ini setting) and we will then create our memory allocations out of it based on our shared dpool size of 4MB (default setting on Windows, changeable via SHARED\_DPOOLSIZE (in bytes) notes.ini setting). This does limit the maximum single allocation size to the size of a "segment" - in this case ~200MB - but internally Domino makes no memory requests of this size, nor should any API program; an allocation request over this size will fail.

There are also some changes/additions to our memory variables which are set in the notes.ini file:

1. As stated previously, the variable "MEM\_EnableSubAlloc=1" will enable sub-allocation of shared memory.
2. As stated previously, the variable "MEM\_SHMSubAllocSize=VALUE" can be used to override our default setting for the size of a sub-allocated "segment" of shared memory (where VALUE is in bytes, and the default varies by platform).
3. As stated previously, the variable "MEM\_EnablePreAlloc=1" will enable pre-allocation of shared memory and will also enable sub-allocation as well. (Setting this variable enables ConstrainedSHM and MEM\_AddressableMem as well).
4. The variable "ConstrainedSHM=1" will now enable the constraining of shared memory only - it will not directly inhibit "addressable" memory as before but will enable MEM\_AddressableMem.
5. The variable "ConstrainedSHMSizeMB=VALUE" can still be used to override our default setting for constrained shared memory (where VALUE is in megabytes, and the default varies by platform).
6. The variable "MEM\_AddressableMem=1" will enable code to limit the amount of memory we see as "addressable". Without this set there is still a default limit in place of 4GB and with the setting enabled more realistic values are used.
7. The variable "MEM\_AddressableMemSizeMB=VALUE" can be used to override our default setting for the amount of memory Domino will see as "addressable" memory (where VALUE is in megabytes, and the default varies by platform).
8. There is now a variable on UNIX to enable using "mmap" for shared memory - "MEM\_EnableMmap=1". This is on by default on Solaris only and is not presently supported on any other platform (minimal testing has been done on Linux x86).
9. There is now a variable to specify the location for where Domino will place "mmap" shared memory files - "MEM\_Mmap\_Location=FOO" where FOO is the absolute path to the new location. This variable is only valid for platforms running with "mmap" shared memory.

Domino Administrator Client, Domino Server

### Domino Server Controller configuration

For Domino 7, the server controller TCP/IP address and the port number should be specified in the server's NAB.

Once the server has been set up, open the server record in the NAB. In the server document, look for the tab "Server Controller" under Ports -> Internet Ports. There, you can edit the TCP/IP address and the TCP/IP port number for the server controller of your server.

If you don't edit these fields, the TCP/IP address defaults to be the same as the server's TCP/IP address, and the TCP/IP port number defaults to 2050. Save, and then restart the server one time without the server controller, so that it will create the admindata.xml file for this server in the data directory.

Now you can bring down the server and start the server under the Server Controller as you normally do.

Notes Client

### Enabling additional printer fonts

Beginning in Notes 7, the Notes client does not add a printer's additional fonts (if any) to the list of fonts.

When Notes users would like to use a printer's additional fonts in the Notes client, add the following line to the Notes.ini file before running the Notes client program:

```
EnablePrinterFonts=1
```

Domino for i5/OS

### Hardware Cryptography Support

This release note describes how to set up and use hardware cryptography (System SSL) with Domino for i5/OS. This SSL can only be used with Domino HTTP at this time.

#### System Requirements

- 5722-SS1 Option 34, Digital Certificate Manager
- 5722-DG1, IBM HTTP Server for iSeries
- 5722-AC2, Crypto Access Provider 56-bit for AS/400 or 5722-AC3, Crypto Access Provider 128-bit for AS/400

#### Hardware Setup

In order to use hardware cryptography (via System SSL) for i5/OS, you must have the hardware cryptography cards correctly installed and configured. At the writing of this document, Domino for i5/OS supports the 4758 Cryptographic Coprocessor and 2058 Cryptographic Accelerator hardware. The latest Cryptographic Hardware documentation can be found in the IBM eServer iSeries Information Center (<http://publib.boulder.ibm.com/html/as400/infocenter.html>) under Networking->Networking Security.

A white paper is available with step-by-step instructions on configuring System SSL for Domino HTTP. The white paper is considered an extension of this release note and is highly recommended. This also covers basic setup of the 2058 Cryptographic Accelerator. The white paper is available on the Web at <ftp://ftp.software.ibm.com/as400/web/domino/pdf/crypto.pdf>.

Further information on configuring the 4758 Cryptographic Coprocessor can be found in the Redbook "iNotes Web Access on the IBM eServer iSeries Server" (<http://www.redbooks.ibm.com/redbooks/pdfs/sg246553.pdf>). See sections 3.2.4 to 3.2.6.

Further information about System SSL and hardware cryptography in general are available in the Redbook "IBM eServer iSeries Wired Network Security: OS/400 V5R1 DCM and Cryptography Enhancements" (<http://www.redbooks.ibm.com/redbooks/pdfs/sg246168.pdf>).

#### Create or Obtain a Certificate for Domino

A certificate to be used by SSL is usually purchased from a trusted Certificate Authority (CA). Optionally you can create your own certificate for testing purposes by creating your own local CA on the server. Certificate configuration is done with the HTTP \*ADMIN server, using the DCM section. Please refer to the DCM redbook for these procedures.

**Assign an Application ID for Domino**

Domino for i5/OS uses an 'Application ID' (AID) to access the certificate created using the DCM. Refer to the white paper or redbook for creating a new AID. Domino servers on the same system can use the same AID or their own AID. Use the following for the "Add Application" screen:

**Application ID:** It is recommend to use DOMINO or the name of your Domino server (ex: MYSERVER). This name will need to be added to Notes.ini in a later step, so write it down.

**Application User Profile:** Enter QNOTES. You can choose to enable the CA Trust List and authentication options in the same table if needed. This will give Domino access to the SSL keys.

**Application Description:** Choose this option instead of Message File, and enter your own description, such as "Domino Server MYSERVER."

Leave the Exit Program and Message File/ID sections blank and decide which authentication options are needed.

**Domino Setup****Notes.INI Variables**

The following are the Notes.INI variables that can be set for using System SSL. The variables that have 'Y' under the REQ? column must be set in order to use System SSL.

<i>NOTES.INI VARIABLE NAME</i>	<i>REQ?</i>	<i>DESCRIPTION</i>
SYSTEM_SSL_HTTP=1	Y	Tells Domino to use the System SSL API instead of SSLPlus for HTTP
SYSTEM_SSL_APPLICATION_ID=MYSERVER	Y	The Application ID created in DCM for this Domino server
SYSTEM_SSL_TIMEOUT=30000	N	The number of seconds until the SSL V3.0 session identifier expires. The range is 0-86400 (1 day) seconds. System SSL will remember SSL V3.0 session identifiers for up to this amount of time. By remembering these SSL V3.0 session identifiers, the amount of data exchanged during the SSL handshake can be reduced for peer applications where a complete initial handshake has already been performed. The default is 30000 seconds (8 hours)

**Domino SSL Setup**

Now you can set up SSL on the Domino server just as you normally would following the instructions in the Domino Help database. There is nothing specific to System SSL that you need to do. Once you set up SSL on Domino, you should have a Domino key file and stash file.

**Note** The Domino key and stash SSL files, used by protocols other than HTTP, are different from the i5/OS system key files used in the example above. Whenever Domino asks for a key file or stash file name, always provide the Domino key or stash file names.

**Additional Notes**

- The System SSL API does not support the thread pool model. System SSL can only be enabled for HTTP. Therefore, all other Internet protocols (such as POP3, IMAP) will use the software SSL library, SSLPlus, as they always have.
- The System SSL API has limited CRL support. Domino has it's own CRL storage process, and since System SSL only supports Tivoli PKI Trust Authority, CRLs cannot be used at this time.
- System SSL and SSLPlus only support SSL V3. SSLPlus (the current SSL package) only supports V2 on z/OS for Domino 7. Likewise, System SSL only uses the SSL V3 protocol.

Domino for i5/OS

### Java JVM property settings on a per Domino server basis

A new property in the NOTES.INI file can be used to specify JVM Properties for the Domino server. This new property, JavaUserOptionsFile, specifies a text file which contains the properties to add to the JVM. This text file can be either ASCII or EBCDIC and have up to 256 properties specified. Each entry must be in the form of "property=value" and be on a separate line.

Any property that can be set with the -D Java option is valid. Domino already provides a way of adjusting the stack sizes, etc.

If Domino specifies a property, and that property is also specified in the JavaUserOptionsFile, the JavaUserOptionsFile value is used. For example, if Domino specifies the property "Foo=1", and the JavaUserOptionsFile specifies "Foo=2", the JVM is created with "Foo=2".

Note There are currently 2 exceptions to this: java.class.path and java.library.path. Domino will link the values specified in the JavaUserOptionsFile to what Domino is already setting for these two properties.

Multiple Domino servers can share the same options file.

One use of this feature is easier enablement of Java applications that have native methods. In order for the System.load() or System.loadLibrary() to find the service program, that service program must be in the current path. In this case, the administrator would have to know what directories the Domino for iSeries code uses. With this change, the administrator can set the JavaUserOptionsFile in the NOTES.INI and in the referenced file specify "java.library.path=/QSYS.LIB/PGMAPP.LIB" where PGMAPP.LIB is the library containing the service program loaded by the java application.

For example:

In the server's NOTES.INI the following line is added:

```
JavaUserOptionsFile=/PGMApp/JvmOptions.properties
```

The file "/PGMApp/JvmOptions.properties" could have the following:

```
java.library.path=/QSYS.LIB/PGMAPP.LIB
java.class.path=/PGMApp/bin/PGMApp.jar
PGMApp.debug=0
PGMApp.serverName=Server1
```

Notes Client

### Notes' Sametime client identifier has been updated

When the Notes client logs into a Sametime server it sends an ID value that identifies the client type. As of the current milestone build, the identifier that the Notes client sends has been updated from 0x1200 to 0x1210. This will allow Sametime administrators to more accurately track client usage and to enable/disable various clients, if desired.

Domino Administrator Client, Domino Server

### Previous Domino Domain Monitor database needs to be deleted

If you already have a Domino Domain Monitor database (DDM.NSF) from a previous Domino 7 beta release, before you upgrade to Domino 7 (non-beta), delete the beta copy of DDM.NSF and allow the current release of Domino 7 to create a new Domino Domain Monitor database on all of your servers. You should also delete all Probe configuration documents before you upgrade from a beta release of Domino 7.

Domino Administrator Client, Domino Server

### Rooms & Resource databases require Administrator configuration

With the new Rooms & Resources Manager (RnRMgr) and the Rooms & Resource system design for Domino 7, it is now possible to have replicas of a Rooms & Resource (R&R) database on multiple servers. In order for R&R requests to be properly processed in a clustered environment, the Administrator must update the R&R database to indicate to the template the "Home Server" for that database. This is done by using the Administration Server setting for the database.

After creation, or after upgrading a pre-existing R&R database to use the Domino 7 template, the Administrator must set the Administration Server setting for the database to be the server where all administrative actions are to be performed. This includes defining new Sites, new rooms or resources or renaming a room or resource. Without this setting, the Administrator will be prohibited from performing R&R administration in the database that could cause RnRMgr or the background Agents to have processing problems later on.

To set the Administration server, this the Administrator simply opens the database using the Notes client and selects File / Database / Access Control from the menus. Then select the Advanced tab on the dialog that appears. The first item on that tab is Administration server. Simply set that to the name of the server where the database exists and click OK.

Domino for i5/OS

### Setup Wizard supports selection of server release to configure

The Domino Server Setup Wizard now detects if you have multiple versions of Domino installed on your system, and will prompt you to select which release of the server to configure.

Domino Server, Domino for z/OS

### z/OS Configuration Settings

Most install problems can be fixed by verifying that the recommended values in the *Domino 7 for z/OS Install Guide* are being used and that you have all of the required service applied. Run the latest version of the PTF Checker tool from the WEB. You should check the WEB page often for updates. The values specified in the Install Guide must be set before setting up the Domino server. Some changes may not become effective until an IPL is done. Read the appropriate z/OS publication to verify which parameters require an IPL. The following is a list of the most common install problem areas:

#### Problem areas

- **IEASYSxx.** For optimal Domino performance it is extremely important that ESQA and ECSA settings be kept to a minimum. Keeping ESQA and ECSA to a minimum will provide maximum virtual addresses in all Domino address spaces. A good general starting point for Domino is to set both ECSA and ESQA to 65 MB and no larger than 100MB.

For each server with a different program directory, plan for an additional 10 megabytes of ESQA. Both Domino memory mapped files and user shared library (SHRLIBMAXPAGES) consume ESQA storage.

We recommend you monitor the ECSA and ESQA size before and after you have installed the latest level of the Domino code for any additional tuning. Based on your own configuration, you will probably have to tune this value for your own environment. As with all other applications that run on z/OS, you should monitor your CSA, ECSA, SQA, and ESQA usage on a regular basis. You can do this by reviewing your RMF reports.

See the *z/OS MVS Initialization and Tuning Reference*, SA22-7592, for additional information on the CSA and SQA parameters in your SYS1.PARMLIB IEASYS member.

- **BPXPRMxx values.** BPXPRMxx values must be set exactly as specified in the *Domino 7 for z/OS Install Guide* unless a formula is given. These values must be set before setting up the Domino server.

If you use the SETOMVS command to set parameters, they only remain at that value until the next IPL. To set a parameter permanently, update the BPXPRMxx member used during IPL, or have the SET command run after each IPL. This can be done by putting it in as a command in COMMNDxx PARMLIB member. Some changes may not become effective until an IPL is done. Read the appropriate z/OS publication to verify which parameters require an IPL.

To verify you have the correct settings, Issue the following UNIX System Services command to verify BPXPRMxx values:

```
dom_verify_os
```

To display the current BPXPARM settings and high water mark usage issue the following commands:

```
D OMVS,0
D OMVS,LIMITS
```

- **COMMNDxx**  
Ensure you have the following command in your parmlib member and is set prior to running the Server

```
COM='SETPROG LPA,ADD,DSNAME=high-level-qualifier.SCEERUN2,MODNAME=CELHV003'
```

- If you are unable to run the dom\_verify\_os or Domino Server Setup, verify the following:

Ensure *high-level-qualifier*.SCEERUN2 is cataloged and available on your driving System.

Ensure *high-level-qualifier*.SCEERUN2 is in your PROGxx or LNKLSTxx concatenation

Verify successful execution of the following command:

```
SETPROG LPA,ADD,DSN=high-level-qualifier.SCEERUN2,MOD=CELHV003'
```

- **The install process requires your Language to be set to C.**

The install should be run with the system Language set to use the default C language. If it is not, unpredictable results may occur.

To verify the Language, issue the following: **echo \$LANG**

The response should be: **C**

If the value is not C, remember the value displayed and change the language by issuing the following: **export LANG=C.**

Prior to starting the server, set the LANG variable back to its original value by issuing the following:

```
export LANG=<original value>
```

- **Auxilliary Storage and Shared Library Support**

If running out of auxilliary storage or experiencing a negative performance change after installing a new libnotes DLL or a new Domino server program directory, then you should check both the libnotes DLL extended attributes and SYS1.PARMLIB(BXPARMxx) SHRLIBRGNSIZE value.

Each additional server program directory requires that the SHRLIBRGNSIZE value be increased. See the *Domino 6.5.2 for z/OS Install Guide*.

To verify the libnotes extended attribute for system shared library is set, issue the following command:

```
ls -E libnotes
```

You will see the following display:

```
-rwxr-xr-x  --s1  1  INSTALL NOTES      50556928 Sep  20 23:12 libnotes
```

Note that 1 in --s1 above indicates that the shared library extended attribute is on.

If the shared library extended attribute is not on for libnotes, you will need to turn it on with a userid authorized to the BPX.FILEATTR.SHARELIB RACF Facility Class. Use the following command to turn on the system shared library extended attribute (note that +1 is lower case L):

```
extattr +l  libnotes
```

Domino Server, Domino for z/OS

### **z/OS IEFUSI User Exit**

If you are currently using an IEFUSI user exit, you must review APAR OW38477 and review the *z/OS Unix System Services Planning* manual (GA22-7800) for IEFUSI considerations.

## **Security**

Domino Administrator Client, Notes Client

### **Rename of user through User Security panel, via mail**

Users who request a rename through the User Security panel via mail should make sure that the administrator uses adminp to process the request. If the administrator does not, and the user is a roaming user, the roaming users' files will not be able to replicate back to the server after accepting the name change. Thus any changes incurred locally will not be pushed and pulled to other machines the user roams to/from.

If the administrator does not use the adminp process, then they should update the ACLs on the roaming users' files as well as the users' mail file to avoid this situation.

Domino Administrator Client, Notes Client

### **Users should locally encrypt databases on multi-user machine**

We advise users on a multi-user machine to locally encrypt databases for added security.

## **Domino Web Access**

Domino Web Access

### **Domino Web Access in Portal Views**

To reduce the space occupied at the top of the portal views, the branding has been removed. The date navigator has been moved to the collapsible left panel area. The Trash can has also been removed from the left panel area to conserve space.

Also in portal views, for the "About Domino Web Access" information, open the Preferences and click the About button.

Domino Web Access

### **Sametime Integration does not work with JRE 1.4.1\_05**

Sametime integration with Domino Web Access does not work with JRE 1.4.1\_05.

Domino Web Access

### **Using Lotus Instant Messaging and Web Conferencing with UNIX**

After you have replicated stauths.nsf from your IBM Lotus Instant Messaging and Web Conferencing server to your Domino server, open the Replication Settings dialog box for the database, click Other, and check the "Temporarily disable replication for this replica" box. This will prevent another version of the database from a Windows system from overwriting your name change for the UNIX server.

## **Uninstallation information**

Domino Server

### **Uninstall 7.0 server before downgrading to pre-7.0 builds**

After installing 7.0 server or later builds, if you plan to downgrade to a pre-7.0 build you must uninstall the server before re-installing the older build to that same location.



## Chapter 3 - Known limitations, problems, and workarounds

### Limitations

#### Applet issues

Domino Administrator Client, Domino Server

##### **Java Debugger can't attach to JVM for "Preview . . ." applets**

There is an issue using the Java Debugger that you cannot attach to the JVM for a Java applet that is running via "Preview in Web Browser".

#### Calendar and scheduling issues

Notes Client

##### **'Print calendar to a document' causes different line indenting**

When using the "Print calendar to a document" option, due to differences in monitor and printer resolutions, the first line indentation of a Subject will be offset from the rest of the calendar notice information.

When using the "weekly style" calendar option, the second and subsequent lines of data will be displayed to the left side of the entry. A workaround for this situation is to print the calendar to a document, and use the "calendar list" - calendar style to set the correct date range to receive the same weekly data as using the weekly style. The steps to accomplish this are below:

1. Select File -> Print
2. Under 'What to Print' select "Print calendar to a document"
3. Under Calendar style select "Calendar List"
4. Under Print Range select the correct from and to dates that correspond to your week.
5. Choose Preview button

This will give you the same data as choosing the Weekly list calendar option.

Notes Client

##### **'Propose New Time' feature not working between Outlook and Notes**

The "Propose New Time" feature does not function properly on iCalendar between Notes and non-Notes application such as Microsoft Outlook (XP and 2003). When sending meeting invitations to non-Notes application Invitees, Notes users are advised to enable "Prevent Counter" or "Prevent Delegation" to avoid breaking workflow between the two clients.

Notes Client

### **Calendar cleanup will crash with some types of archive policies**

If you are using archive policies in the current release, do not use the Tools -> Calendar Cleanup action before you've read and understood this release note.

In mail files for which an archive policy is in place, if that policy includes enabled criteria, the client may crash on attempt to perform a Tools -> Calendar Cleanup. Additionally, it is possible to crash the server on which the mailfile is located.

Note that Calendar Cleanup will not crash in a mail file that uses local archive criteria -- the problem only occurs with criteria that come from an archive policy. Archive policies that don't include enabled criteria -- e.g., an archive policy that sets the new maximum retention limit -- will not interfere with calendar cleanup.

Notes Client

### **Filtered Private entries**

Private entries do not appear in the Calendar View for Calendar Managers/Mail Delegation users if the View is Filtered by any option, and the filtered results contain entries that have been marked private.

Notes Client

### **Icons for Recipient in the To/cc: field are on Delegated Meeting**

There are several issues with Delegated Meetings in regards to the Icons for Recipients in the "To/cc:" field. It is possible to receive a half-solid circle on the delegated meeting when it should display a solid circle. Also, the delegatee's name does not appear in the "To" field by design, so this may be changed to not include delegated meetings at all.

Notes Client

### **Icons for Recipient in the To/cc: field are on responses**

When a response comes back to the meeting Chair from the Invitee on a Meeting/To Do, the Invitee is in the "To" field so there should not be an icon; the Chair's name is in the Chair field.

Notes Client

### **IPv6: Meeting Threads not showing name by design**

If the client is set to use the IPv6 protocol, the new Meeting Threads view does not show the name of the invitee on the responded notice, by design.

Notes Client

### **Managed Client opens C&S entry in Workplace preview window**

When using the IBM Workplace Managed Client, and you have Lotus Notes installed with the Calendaring and Scheduling Alarms enabled, you may see a situation when the perspective is set to another IBM Workplace application (like Messaging), and the Lotus Notes Alarms dialog displays.

Opening the C&S entry from the Alarm dialog will display the entry in the preview frame of the Messaging perspective.

Notes Client

### **Repeating meetings not automatically accepted on Domino 6 router**

If a user is on a Domino 6 server, but has a Notes 7 client and template, the new option "Automatically accept even if time is not available" will not work correctly; it will, more than likely, decline the repeating meeting. This is a case of forward incompatibility and is not recommended. Users must be on an Domino 7 router (server) in order for this feature to work correctly.

Notes Client

**Using Go To options shows the Meetings tabs when it should not**

When a User opens their mailfile and then their Inbox, the User can then select View/Go To . . . options. If the User selects any of the new Meetings View or All Calendar Entries Views (i.e., Calendar Entries By Start Date, Accepted Meetings, Calendar Entries By Category, Calendar Entries By Entry Type, Calendar Entries By Start Month, Calendar Entries By Status), the tabs to the views do not display and should not display. The problem is that, when the user closes this view and then reopens any other view (Inbox, Drafts, Sent, etc.), the tabs will display and should not.

Notes Client

**Workplace not restored when opening C&S notice from Alarm dialog**

When using IBM Workplace and the Notes client with Calendaring/Scheduling Alarms enabled, the IBM Workplace application is not restored from the minimize state when you receive an Alarm dialog and attempt to open the calendar entry from the dialog.

**Client issues**

Domino Administrator Client, Notes Client, Domino Designer

**Client Reconfiguration Wizard and location document**

As noted in the on-line documentation, it is important to switch to the correct location document before using the Client Reconfiguration Wizard to configure a new connection, internet account, proxy server, or replication schedule. The Wizard applies new settings/changes to the current location document only.

Notes Client

**Database open fails if query view is set to default**

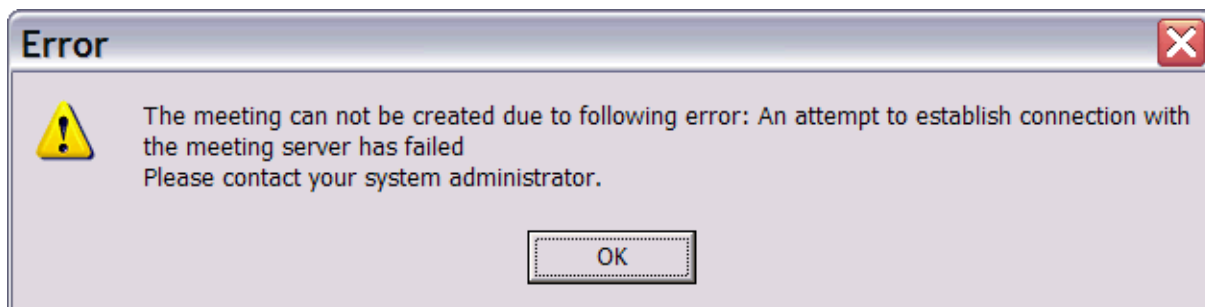
When "Default when database is first opened" is set for query view, attempting to open the local copy of the database fails.

Notes Client

**Limitations using Sametime Server with IMLU**

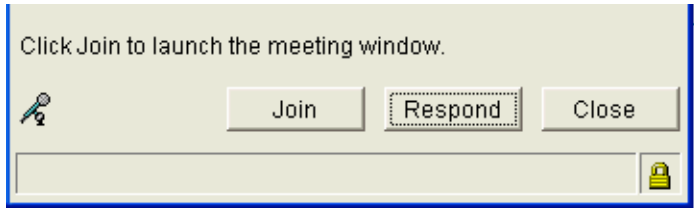
If your Sametime Server is running the IBM Lotus Instant Messaging Limited Use (IMLU) configuration, you are restricted to Instant Messaging capabilities only. The Instant Messaging Web Conferencing options are invalid. You will experience these limitations:

1. If you attempt to create any of the Instant Meetings options (audio, video, shared and or collaboration) within Notes, the following error message displays :



2. Since Web Conferencing is not enabled on your Sametime server, when an invitation to a Sametime meeting is sent to you\*, you will not be able to join. Instead, you should choose the Respond button from the dialog box and notify the Initiator that you don't have the Web Conferencing capabilities.

\* A person connected to a fully enabled Web Conferencing Sametime Server has the ability to include you on their Sametime meeting invitation.



Domino Administrator Client, Notes Client

### Limitations with Mozilla

When using webadmin.nsf with Mozilla 1.7.3 (open as <http://yourserver.com/webadmin.nsf>), due to a third-party software limitation with Mozilla, all "Close" buttons in many documents don't work at all.

Notes Client, Domino Web Access

### New Autoprocess feature not in Webmail for current release

The new Autoprocess feature: "Automatically accept even if time is not available" is not included in Webmail for the current release of Notes and Domino 7.

Notes Client, Domino Designer

### QV fails to return expected error in pre-r7 or non-DB2 server

There is a case that the expected error message fails to be returned when query view is opened in older version of Notes client or non-DB2 server.

1. Database is on DB2-enabled server
2. Query view shows only selected docs, e.g. "Select \* from db.dav where field='value'". Also view selection formula shows a different set of docs - I used default "Select @All"
3. Using older version of client, a copy or replica of the database is created on a non-DB2 enabled N/D 7 server.
4. Query view is opened in older version of client

Instead of returning the error message, the query view is opened in older version of Notes. The query does not execute, instead the view shows docs based on the view selection formula. Same problem occurs if the db is copied locally and opened with older version of client.

Notes Client

### Sametime Meetings require Internet Explorer or Netscape (< 6)

Sametime Instant Meetings that use the audio, video, screen sharing, or whiteboard functionality require the system default browser to be Microsoft Internet Explorer or Netscape (a version less than 6).

## DB2 issues

Notes Client

### Archive and calendar cleanup can't be used on DB2-enabled mail

This issue is related to the "Compact -a and -A will not work on DB2 enabled servers" document in these release notes.

Please note that archiving and calendar cleanup use compact. Neither will work on DB2-enabled Domino servers, and servers may crash when compact is called through an archiving or calendar cleanup function.

Domino Administrator Client, Domino Server

### Domino and DB2: Compact -B delays Domino server shutdown

When Compact -B is used in a Domino and DB2 environment, DB2 begins reorganizing tables while attempting to reduce tablespace size. This can prevent the Domino server from shutting down cleanly. The Domino server does not shut down while a DB2 table reorganization is running.

Domino Administrator Client, Domino Server

### LNDFR.NSF not supported as DB2-enabled Notes database

The Domino Administrator 7 documentation contains the topic "Databases not supported as DB2 enabled Notes databases." The Fault Reports database, LNDFR.NSF, is not supported as a DB2 enabled Notes database and is created as a Notes database (NSF) on DB2 enabled Domino servers. The Fault Reports database should be added to the second table in the topic.

Database	Usage	Description	From template
LNDFR.NSF	Domino server and clients	The Lotus Notes/Domino Fault Reports database stores data that is collected at the time of a server crash. Data is collected from both the client and the server and can then be used to measure client reliability and determine the areas where problems exist.	Created by default at first server setup in the domain. Subsequent Fault Report databases can be created using the Open Fault Reports Tool in the Domino Administrator. The template is LNDFR.NTF.

Domino Administrator Client, Domino Server

### Query views cannot be used with Depositor-level access

Users with Depositor access to a DB2-enabled Notes database cannot see any records (including Notes records and federated data records) in a query view, even though they can see the same Notes records in other Notes views. This is because query views always perform full rebuilds when the view is opened, and Depositors do not have permission to perform this action.

Domino Designer

### Refreshing a query view in Designer doesn't show correct data

After customizing a query view in Designer, if you hit 'F9', or click on the Refresh icon, you will see incorrect or, sometimes, no data.

## Designer issues

Domino Designer

### **@DB2Schema syntax not working**

In the current release, the following DB2Schema syntax does not work correctly:

```
@DB2Schema("";@ReplicaID)
@DB2Schema("";"nsfname")
```

You can, however, use the following syntax:

```
@DB2Schema("Server"; @Replica)
@DB2Schema(@DBName)
```

## Directory issues

Domino Server

### **LDAP Domino Upgrade Service group migration limited to 500**

Group entries in the LDAP Domino Upgrade Service are created when you select a group to migrate. Based on the options that you choose in the Group object classes section of the Advanced LDAP Migration Options dialog box, the members contained in those groups may also be migrated. Currently, the limit of group members that will be migrated into a Domino Directory for each group is 500.

Refer to the "Migrating Group Entries" chapter in the 'Mail and Directory Migration' section of the Lotus Domino Administrator 6 Help documentation for more information on how to create new group object classes, and to add member attributes.

Domino Administrator Client, Domino Server

### **LDAP Domino Upgrade Service group migration limited to 500**

Group entries in the LDAP Domino Upgrade Service are created when you select a group to migrate. Based on the options that you choose in the Group object classes section of the Advanced LDAP Migration Options dialog box, the members contained in those groups may also be migrated. Currently, the limit of group members that will be migrated into a Domino Directory for each group is 500.

Refer to the "Migrating Group Entries" chapter in the 'Mail and Directory Migration' section of the Lotus Domino Administrator 6 Help documentation for more information on how to create new group object classes, and to add member attributes.

Domino Server

### **LDAP will not honor abandon operations over SSL connections**

The LDAP server will ignore abandon requests sent over SSL connections. LDAP will detect and honor the loss of the connection, which may be used as a workaround to terminate long-running search requests over SSL.

Domino Administrator Client, Domino Server

### **LDAP will not honor abandon operations over SSL connections**

The LDAP server will ignore abandon requests sent over SSL connections. LDAP will detect and honor the loss of the connection, which may be used as a workaround to terminate long-running search requests over SSL.

Domino Administrator Client, Domino Server

### **IPv6 addresses in Directory Assistance**

IPv6 addresses should not be configured in Directory Assistance unless all servers that are configured for DA are Domino 7.0, with the required IPv6 network support.

For more information about using IPv6 addresses in Directory Assistance, see the topic "Creating a Directory Assistance document for a remote LDAP directory" in the Domino 7 Administration Help.

## **DOLS issues**

Notes Client, Domino Offline Services (DOLS)

### **Dircat not being deleted when shared subscription is deleted**

When a subscription containing shared subscription data and a directory catalog is deleted, the catalog remains in the user's Domino Web Access directory. This is true even if the shared data is not actually being shared by another subscription.

The dircat will not delete if it has been accessed offline in the current Domino Web Access session, even if you close the browser before deleting the subscription. Attempts to delete the dircat manually (in this state) from the user directory in Windows Explorer, yield a "Sharing Violation."

There is currently no workaround.

Notes Client, Domino Offline Services (DOLS)

### **Win2K - Sync Details box opens behind Sync Manager**

On Windows 2000 Professional operating systems the Sync Details dialog opens behind the Sync Manager.

Domino Web Access

### **DOLS does not support hyperthreading**

DOLS does not support the BIOS setting of hyperthreading.

Domino Web Access, Domino Offline Services (DOLS)

### **DOLS does not support Simplified Chinese GB18030 Unicode**

DOLS does not support Simplified Chinese GB18030 Unicode. Subscriptions using these characters will not install properly.

## Domino Access for MS Outlook issues

Domino Access for Outlook

### Domino Access for Microsoft Outlook issues

The following is a list of differences between the Notes client and the Microsoft Outlook client, as well as known limitations and problems.

#### Differences between Notes client and Microsoft Outlook client

- Outlook's "Active Appointments" view does not accurately reflect the number of occurrences in a recurring meeting; however, the calendar accurately reflects the meetings.
- If a Notes invitee requests information in response to a meeting invitation, the Outlook chair will receive an email with their comments.
- Embedded messages can be read only by Outlook recipients. Use Forward or Reply to send existing message content to all users.
- Outlook does not support the creation of a new line in the Subject and Location fields on Calendar items. New lines entered in Notes in the Subject or Location field are converted to a semicolon (;) followed by a space in Outlook. Domino Access for Microsoft Outlook users can enter a semicolon and space so that a new line is added in Notes.
- Meeting updates to recurring meetings (not reschedules) are sent as individual items, if a change is made to the series a number of updates will be sent. It is recommended that changes are made to single instances to avoid multiple updates being sent.
- Domino does not support recurring daily meetings every weekday. Instead, use the option to select the days of the week.
- In Outlook, there is no new mail notification on start up, even when there are unread messages in the Inbox. New mail notification does not occur until a new message arrives.

#### Address Book

Distribution lists created in Notes that contain other distribution lists (nested distribution lists) cannot be resolved within Outlook. Nested distribution lists created in Notes are resolved in the Domino server and can be used to send messages. Nested distribution lists created in the Outlook Contact folders are resolved within Outlook and can be used to deliver messages.

#### Group To Dos/Tasks

- In Outlook, when forwarding a task that includes an attachment to another Outlook user, the attachment is not forwarded.

#### Mail

*Sending e-mail*

- To ensure full directory access, all directories you want to select must reside in your domain. This release does not provide access to directories that require additional certificates to access, such as directories in different domains. If you cannot access a directory, talk to your administrator.
- It is recommended that complex documents be placed as attachments in e-mail. Microsoft Word is supported as the primary editor and is recommended where available.
- The preferred format for e-mail should be set to Rich Text format in Outlook for best results.
- Table formatting in some cases may be lost when sending from Outlook; use attachments for complex documents.
- Messages removed from Domino Access for Microsoft Outlook using "shift-delete" are not removed from the server replica. Users should simply delete messages and empty them from their "Deleted Items" folder to ensure proper synchronization of deletes from Domino Access for Microsoft Outlook.
- Mail notification of briefly changing the mouse cursor does not work in this release.

*Outlook features not supported*

- Most of Outlook's publishing and authoring components, such as footnotes, bookmarks, captions, cross references, page column formatting, edit change, and revision marks and tracking.
- In Outlook 2002, sending e-mail that has an assigned category is not supported by Domino;
- **Follow Up flags are not sent to e-mail recipients if mail is in html format.**
- Pictures other than clip art and images from files. Charts, diagrams, and embedded objects. Use attachments for these objects.
- In some cases, active URLs in Notes do not replicate as active links in Outlook.
- Once a message has been sent, Domino does not support the ability to expire or retract the message.
- The tracking option "Process receipts on arrival" is not supported in Domino.
- Outlook Rules that are applied to new items currently work only with the "Run Now" option, not as items are added to the Inbox.

*Other*

- There is currently no way to represent LotusScript buttons with Outlook.

**Calendar & Scheduling***Recurring meetings*

- Deleting recurring meetings, may result in some occurrences remaining on the Calendar.
- In Notes, you can create a monthly meeting that happens on the first Tuesday and third Thursday of each month. However Outlook does not support this as a repeat. These meetings will be distributed to multiple dates when replicated to Outlook.
- Recurring meetings that are subsequently changed to be "Private" cannot be accepted by the invitee. This can be resolved by changing the end time by 1 minute and then setting the "Private" option.
- If there is a mixture of acceptances and declines, the accept/decline status of invitees and rooms for specific instances of recurring meetings may be incorrect. The original accept/decline notices for the users received by the chair are correct.
- In some cases, invitees added to recurring meetings, where a number of updates are applied, may receive a "Request Out of Date" message when processing updates. It is recommended that the user verify that the changes have been applied to the existing calendar entry, as in some cases they may not be.

*Autoprocessing*

- When using "Autoprocess," the Chair does not receive an acceptance notice from the invitee, but the meeting is added to the invitee's calendar.
- On the Autoprocess tab, if you enable automatic responses to meeting invitations from specified users, you have the option of choosing a name from the address book. however, you must remove the "@<domain>" portion of the address for this feature to work.

*Outlook features not supported*

- The fields "Show Time As" and "Categories" are not sent to invitees.
- When you create a meeting invitation and save it as draft in Notes/Domino, the addresses are not available when viewed in Outlook.
- If you set an alarm for a specific meeting in Notes, the alarm is not set in Outlook for the same entry.
- If a meeting invitation created in Notes is delegated to an Outlook user, the Outlook user cannot take action on the meeting. However, the meeting may be added to the delegate's calendar.
- The Outlook XP feature creating "Group Schedules" does not operate correctly. It will not save the members of the group when initially created; subsequent edits will be saved and operate correctly.
- The "cc" field is not supported when sending a response to meeting requests, add any additional recipients to the "From" field.
- The Notes/Domino invitee cannot delegate meetings created with an Outlook chair in this release.
- Comments sent by a Notes/Domino Chair or Notes/Domino delegator are not supported when sent to Outlook Chair.

*Other*

- Occasionally when accepting/declining multiple updates for a meeting, Outlook may report the error "The messaging Interface has reported an unknown error. If problem persists restart Outlook." Close the entry, and reopen it and accept/decline again. The error should not reappear.
- Addresses selected from the personal contacts and LDAP directories will not show the tracking status of attendees, when creating meeting invitations. They will correctly receive the meeting invitations, and updates and responses will be received.
- If a delegate tries to change the date in an appointment, reminder or all day event that was created by the owner of the mail file, the delegate will get a message that the entry has been changed by another user. The delegate will be prompted "Do you want to make a copy in the default folder for the item?" **Workaround:** Delegate should click yes, and then close the calendar entry. Reopen the calendar and make the necessary changes.

**Rich Text Formatting**

Some of the rich text formatting (RTF) available in Outlook is not supported in Domino and will be lost or replaced by similar formatting supported in Domino.

*General*

The following general areas of Outlook formatting are not supported:

- Publishing and authoring features -- This includes manuscript revision marks and edit change tracking and annotations, footnotes, captions, page headers and footers, bookmarks, indexes and tables of contents, and cross references. It also includes creating columns and sections, and using "drop cap" paragraph formatting.
- Drawing and artwork features -- This includes creating new a drawing in the document, autoshapes, word-art, charts, and diagrams. **Note:** Clip art and images inserted from files are supported.
- Special text fields and form fields --This includes inserting auto text, text fields, and form fields. Examples are current date or time, author name, creation date, calculated fields (such as sales tax), text boxes, checkboxes, and dropdown fields.
- Frames and sections, document variables, master documents, and subdocuments.

*Text and Paragraphs*

The following text or paragraph formatting are not supported:

- Multi-level bullet and numbered lists -- only single-level lists are supported. **Note:** Supported list types are solid circle bullet, decimal numbering, lower- and uppercase alpha, and lower- and uppercase Roman numbering.
- Shading and borders for text, shading for paragraphs, positioned paragraphs, automatic hyphenation and paragraph styles.
- Combining shadow, emboss or engrave formatting with superscript or subscript -- if more than one is specified, superscript or subscript take precedence.
- Underline styles -- only the solid underlining style is supported; all other styles will be converted to solid.
- Special tab alignment -- only left aligned tabs with no leader are supported.

*Tables*

In the following cases, Domino will convert table formatting to a style that is supported:

- Tables created using "AutoFit to contents" tables and the "Fit text" to cell feature.
- Varying column widths between rows; varying the number of cells between rows.
- Varying text alignment and inner margins between cells -- all cells will have the same values. In a cell, the top and bottom margins will always be equal and the same is true for left and right margins.
- Varying cell border style and color between cells -- all cells will have the same cell border style and color, and the table's outer border will be of a single style and color.
- Shading -- only solid style of cell and table fill (shading) is supported -- Other styles (such as hash marks) are converted to solid.
- Table and cell border styles -- Domino supports eight styles; all others will be converted to the closest match.
- The merge cells feature.
- Number of columns and levels of nested tables are limited to 63 and 7, respectively.

**Domino Formatting not Supported in Outlook**

If you use both Notes and Domino Access for Microsoft Outlook, some formatting created in Notes is not supported in Outlook. This formatting will either be lost in the conversion or will be replaced by something similar.

*General*

- Drop-shadow borders on tables and pictures
- Some list styles, such as circle, square and checkmark

*Tables*

- Fit to Window style tables.
- Cell image and gradient fill (shading).
- Mixture of fixed and variable cell widths in a table.
- Tabbed, captioned, and animated tables. These will be converted to normal tables in Outlook.

For migration issues, see the release note "Exchange to Domino Migration Issues."

*Domino Access for Outlook***Use Domino Access for Microsoft Outlook 6.5.4**

Due to an intermittent problem with Domino Access for Microsoft Outlook 7, it is recommended that you deploy the 6.5.4 version that is available on the Web at [www.lotus.com/ldd](http://www.lotus.com/ldd).

**Domino Domain Monitoring issues***Domino for i5/OS***DDM memory probe on i5/OS reports 2x usage for Java agent**

Due to platform differences, a Java agent on i5/OS will be reported as using about 2x the CPU as on other platforms.

*Domino Administrator Client, Notes Client***General Domino Domain Monitoring (DDM) information**

Following is general information regarding the new Domino Domain Monitoring (DDM) feature:

- DDM is an IBM Lotus Notes and Domino 7 feature only. Prior releases of Notes/Domino do not support DDM functionality. All DDM Probe, Filter, and Server Collection Hierarchy configuration should be performed using a Notes 7 Client and use of the Domino Domain Monitor database is only supported using a Notes 7 Client.
- The Domino Domain Monitor database (ddm.nsf) is not supported for use via browsers for the Notes/Domino 7 release. This database must be viewed & used via the Notes Client, Domino Administrator Client, or Domino Designer Client.
- If upgrading from an earlier beta release of Domino 7, here is the recommended procedure for updating DDM Configuration in your domain:
  - before upgrading your domain, it is very important to *delete* all existing DDM Probe documents, DDM Filter documents, and Server Collection Hierarchies in the Monitoring Configuration database. These documents are highly likely to be stale and could result in DDM functionality problems in your domain. Allow time for the deletion of these documents to replicate throughout your domain before proceeding.
  - when upgrading servers to Domino 7, be sure to *delete* the Domino Domain Monitor database (ddm.nsf) on all servers. This database will be automatically re-created upon launching each Domino 7 server.
  - replace design of both the Monitoring Configuration (events4.nsf) and Domino Domain Monitor (ddm.nsf) databases, so that they include the most current template code
  - create/configure new DDM Probe documents, DDM Filter documents, and Server Collection Hierarchies in the Monitoring Configuration database
  - the Domino Domain Monitoring database will quickly populate with results, based on your newly created configuration

Domino Server, Domino for z/OS

### **z/OS DDM Limitations**

Following are the limitations using the DDM feature on Domino for z/OS:

- The Network and Disk Utilization DDM probes are currently not supported on z/OS.

## **Domino Web Access issues**

Domino Web Access

### **Attachment icon does not display with S/MIME encryption**

If an S/MIME encrypted message includes an attachment, the attachment icon does not display in the user's Inbox.

Domino Web Access

### **Cannot change Internet password when authenticating via LDAP**

Domino Web Access users who authenticate using an LDAP server cannot change their Internet password using Domino Web Access Security preferences.

Domino Web Access

### **Cannot clear browser history from the logout screen**

In Microsoft Internet Explorer, the browser history is not deleted even though you check "Clear History" when logging out of Domino Web Access using the "Logout" or "Logout for Shared PCs or Kiosk Users" options on the logout screen.

Domino Web Access

### **Don't use Adobe Distiller to create PDF files**

Do not use Adobe Distiller to generate a PDF file from a DWA document. If you do, the file includes garbage characters that are not visible in the paper output, which may cause the printed documents to be unusually large.

Domino Web Access

### **In clusters, replicator deletes message when it is sent to self**

If you send a message from a replica of your mail database (not on your home mail server), and you have set a preference to save a copy of sent messages in your Sent view, the Replicator deletes one copy of the message. It does not save one copy in your Sent view and one in your Inbox. Instead, only one message is saved and it appears in both your Inbox and your Sent folder. The one message has the characteristics of a saved copy (in your Sent view). For example, the message does not have a delivered date and does not display a yellow envelope icon in the mail file views.

Domino Web Access

### **In Mozilla browsers, spellcheck does not check Subject line**

In Mozilla browsers only, the spellcheck program does not check the spelling of words entered in the Subject line.

Domino Web Access

### **Interoperability issue with delegates**

If a meeting is scheduled by a Chair using an iNotes5 server, delegates who are using iNotes6 or DWA7 will receive a warning when responding to an invitation.

Domino Web Access

### **Mail rule that filters by high delivery priority may not work**

If you have a mail rule that includes the condition of a high delivery priority, you should be aware of these issues:

- In Domino Web Access, a mail rule that filters mail with a high delivery priority does not correctly filter messages sent from a Notes client.
- In Domino Web Access, when creating a mail rule that includes Delivery priority or Importance, use the IS operator instead of CONTAINS.

Domino Web Access

### **Offline not available on Linux Mozilla**

For the current release of Domino Web Access 7.0, users cannot go offline when using a Linux Mozilla client with a non-Windows OS server, for example, UNIX, Linux Mozilla, AIX, Solaris.

Domino Web Access

### **Secure mail issue with offline subscriptions on same system**

Two users who have offline subscriptions installed on the same system cannot send encrypted mail to each other while offline. Also, signed mail sent between the two users while offline may contain an S/MIME signature, when it should contain a Notes signature.

Domino Web Access

### **Update calendar notice not generated for repeat meetings**

In the following instances, when you open an update notice to a repeat meeting that you have accepted, no reminder displays informing you to update your calendar:

- Meeting cancellation
- Meeting reschedule
- You are removed from an instance of the repeat meeting

Domino Web Access

### **Upload control does not load**

On a Windows NT system running Internet Explorer 6.0, you cannot download the Domino Web Access 7 Control (DWA7.CAB) file because the shell32.dll file needs to be updated.

#### **Workaround**

Users can obtain a newer version of shell32.dll from:

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=6AE02498-07E9-48F1-A5D6-DBFA18D37E0F>

## **Installation issues**

Domino Server

### **Blank service description issue on Windows 2003**

If you install the Domino server on Windows 2003 as a service, the service description section in the Windows service control is blank. This is not an issue on Windows 2000; it has a brief description of "Allows Domino to run as a service".

Domino Administrator Client, Notes Client, Domino Designer

### Multiple User Client Installation information

Following are key points about Multiple User Client installations:

- A Multiple User Install must be performed by someone with Administrative rights to the machine.
- When installing a Multiple User Install, you will need to launch Notes Minder from the program directory. The shortcut for Notes Minder that appears in the Start Menu currently isn't working.
- You can now upgrade an existing 4.x and 5.x Single Client Notes install to a Multiple User install if you have Administrative rights to the machine. Be aware that this just preserves and renames the Notes.INI, and leaves behind your old data directory. You will need to run through setup again and manually move any old data you wish to reuse. For an existing Lotus Notes 7 Client, you can also perform this procedure for Windows XP and Windows 2000 platforms only.
- The Multiple User Installation option applies *only* to the Notes Client and is therefore only found in the Notes kit. The Designer and Administrator Clients aren't supported with a Multiple User Install (not even during upgrade scenarios).
- Installing a Shared install and selecting a Multiple User Installation through a transform isn't supported. This is also documented in the Install documentation.

Domino Administrator Client, Notes Client, Domino Designer

### Notes Single Logon and Windows Terminal Server/Client

The Notes Client Single Password Logon feature is not currently supported for use with the Windows Terminal Server/Client feature.

Domino Administrator Client, Notes Client, Domino Server

### Notes Single logon restrictions

This release note explains the Notes Single Logon restrictions for the following:

- Machine name cannot equal OS login name with Notes single logon
- Operating system (OS) and Domino password policies
- Location of the NOTES.INI file and Notes user ID file

#### Machine name cannot equal OS login name with Notes single logon

Domino/Notes Client Single Logon feature does not work when the OS login name is identical to the machine name, and you are logging on using the OS name. If Client Single Logon is not working properly on your system, change your OS login user name or your machine name.

For information on how to change either name, refer to your Microsoft Windows documentation, or see your Network Administrator.

**Note** This release note applies to all Domino/Notes releases that support Client Single Logon.

#### Operating system (OS) and Domino password policies

During OS password changes, the Notes Network Provider must be able to change the Notes ID to the new password provided by the OS. Notes is notified of the new OS password only after the OS password has been changed. If the new OS password does not meet the Notes password quality and history requirements, the Notes password change will fail.

During Notes password changes, the Notes Client must be able to change the OS password to the new Notes password. If the new Notes password does not meet the OS password quality and history requirements, the OS password change will fail.

OS and Domino password policies must be aligned as closely as possible to allow password synchronization to work.

Location of the NOTES.INI file and Notes user ID file

For bidirectional password synchronization, the Notes Network Provider must be able to access a user's NOTES.INI file and Notes ID file. The table below shows the required location for the NOTES.INI file:

Install Type	Location
Single User	The NOTES.INI file must exist in the Notes directory as specified in the HKEY_LOCAL_MACHINE registry key.
Multi-user	The NOTES.INI file must be specified in the HKEY_USERS registry key: (" <code>&lt;sid&gt;\SOFTWARE\Lotus\Notes\6.0\NotesIniPath</code> ")

Operating system (OS) password changes, that is, password changes that are initiated outside of IBM Lotus Notes, occur in the system access control environment; therefore, the NOTES.INI file and the Notes ID file must reside on a local drive.

Domino Administrator Client, Notes Client, Domino Designer

**Time Range cannot span midnight for Client Setup**

During Notes Client Setup, there is a dialog that allows users to configure a Replication schedule. There is a known problem when a time range that spans midnight is entered on this dialog. Doing so will result in the time range being **reversed**. For example, if the user enters 11:00 PM - 03:00 AM in the Replication schedule dialog during Client Setup, the time range will be reversed to read 03:00 AM - 11:00 PM.

The user may not notice this time change in the dialog, but it can be easily corrected by opening the local Address Book, going to the Advanced -> Locations view, and manually editing the time range in the relevant location document(s).

Domino Administrator Client, Notes Client, Domino Designer

**Uninstall Designer/Administrator via Modify leaves icons behind**

When modifying an existing install to de-select (i.e., remove) the Designer or Administrator Client, the desktop and Start Menu icons will remain for the Designer and Administrator Clients. Clicking on these desktop icons will reinstall the specified Clients.

Simply delete the icons from the desktop and Start Menu if you wish to no longer be able to reinstall the Designer or Administrator Clients.

**Internet issues**

Domino Administrator Client, Domino Server

**Java Console will not accept IPv6 addresses**

The Java console for the Domino 7 server does not support IPv6 addresses, because of the current JVM.

Domino Administrator Client, Notes Client, Domino Designer

**Not all mapped network drives appear when browsing**

There is an intermittent problem when browsing network drives on **some** Windows machines through the installer. Not all mapped drives will appear in the drop down list. To install to a drive that isn't available in the "Look in" drop down list, simply type the full path in the "folder name" field.

Domino Administrator Client, Domino Server

### **On Linux, request log filenames do not link to HTTP thread IDs**

If you enable HTTP thread logging on a Domino 7 server, the corresponding request log files are stored in the \data\IBM\_TECHNICAL\_SUPPORT directory. On Linux, in the NSF log file of a crashing stack, the filenames of the request logs do not appear to link correctly to the Thread IDs of the HTTP threads.

#### **Workaround**

To locate suspect URLs, manually open the request logs and search for incomplete requests, or use a tool such as reqsorter.

## **Mail issues**

Notes Client, Domino Server

### **New archive criteria type won't work if db is on earlier server**

In Domino 7, when users create archive criteria, they can opt to select documents "older than" (i.e., by create date) some number of days/months/years. This option is only available to Domino 7 clients; clients earlier than Domino 7 will allow selection only by modified/accessed date, expiration date, or selected by user.

However, criteria of this selection type also require that the database to be archived from is on a Domino 7 system (locally on a Domino 7 client, or on a Domino 7 server). In cases where this is not true, any criteria based on "older than" will not execute. Any/all other enabled criteria will continue to run.

Because of the large number of paths that archiving can take (e.g., processing done on client vs. server, on a client or server schedule vs. manually initiated, out of current replica vs. out of named source, etc.), users will not receive any errors if an "older than" criteria fails.

Therefore, "older than" should not be used as an archive selection type in an environment where users may have database replicas on servers earlier than Domino 7.

Notes Client

### **Reply to All will not work on Collapsed Personal Groups**

There is a new feature to allow the user to not expand personal groups. This option is available in the Delivery Options for a new Memo. If the recipient does a Reply to All action, the personal group name will be placed in the memo but, since the group was created locally by the sender, the recipient will not be able to use this group name and get a No match dialog (a delivery failure in R4).

This is a software limitation. The user should remove the group name from the reply.

## **Policy issues**

Domino Administrator Client, Notes Client, Domino Designer

### **Custom Welcome Page for Client Setup via modem**

It's possible a custom Welcome Page deployed via Desktop Settings will not display on the Notes Client if the user has performed a new Client Setup over a modem. This can be caused by slow connection speeds, network interruptions, etc.. This problem is specific to dialup connections.

Domino Administrator Client, Notes Client, Domino Designer

### General Setup and Desktop Policies information

Below is some general information regarding Setup Settings & Desktop Settings that are deployed via Policies:

- An R5.0x Notes Client does not support any Policy functionality, even if the mail server is running Domino 7.
- When upgrading to the latest Domino 7 release, please replace the design of the Domino Directory so that it includes the most current template code.
- If the error: **Document not signed** displays, the likely cause is an unsigned Settings or Policy document. To resolve this, open the Domino Directory and edit, then re-save each Settings and Policy document. Another alternative is to delete all Settings and Policies documents and create new ones.
- To add links (folder, database, document, URL, etc.) to the "Bookmarks to merge with users' bookmarks" outline in a Desktop Settings document, simply drag and drop items from the title bar onto the bookmark outline. If you are rolling out a more complex bookmark hierarchy, including the use of folders, you may find it easiest to create the bookmark hierarchy in the Notes Client and then populate the Desktop Settings document using the bookmarks created in the Notes Client.

Notes Client, Domino Server

### Proxy Server settings not always being pushed down to the client

Information configured in the Proxies tab in a Desktop setting document intermittently get pushed down to the Notes' client location document. If an Administrator locks the proxy information some of the fields will not lock down.

Domino Administrator Client, Notes Client, Domino Designer

### Setup & Desktop Policies on a shared Notes Client

Because Setup & Desktop Settings are applied to the user's Personal Address Book, Bookmarks, and notes.ini file (user preference settings), several users who share one Notes Client (& data directory) will be unable to have policies applied correctly. This occurs because these local databases can only contain one set of Policies data. If users with different Policies assigned share the same Notes Client, they will have problems receiving the correct Policy settings when they switch id's to use the Client.

One workaround for this would be to consider using the new Notes Multiple User Client feature. This allows users to share the Notes program files, but have their own personal data directories - all on one machine. The feature is limited to the Notes-only Client license. But, it is a great way to allow for the sharing of one machine/one Notes Client, but also allow users to have their own personal Notes files.

## Printing issues

Notes Client

### Print previewing text in color shows up as black and white

Using metafiles, if the printer you are using to preview with does not support color printing, then font colors will not be honored and will display as black and white. If you pick a printer that does support color, the font colors will be displayed correctly.

## Programming issues

Domino Designer, Domino Server

### Java applets need same JVM used to create Domino Objects

Standalone Java applets which use the Domino Objects (back-end classes) must be run under the same JVM version as was used to create the back-end class library (lsxbe).

Domino 6 uses JVM 1.3.1. Any standalone Java applets using lsxbe.so from Domino version 6 must be run under JVM 1.3.1.

Domino 7 uses JVM 1.4.2. Any standalone Java applets using lsxbe.so from Domino version 7 must be run under JVM 1.4.2.

Using any other configuration is not supported.

Domino Server

### NotesDatabase.GetModifiedDocuments

The NotesDatabase.GetModifiedDocuments method doesn't work in Java on UNIX. The Java CORBA version of this method also doesn't work.

Domino Server, Domino for z/OS

### z/OS LS:DO in codepage IBM-939 or 5039 not supported

On z/OS, Japanese DB2 using code page 943 or 5039 as the Mixed ASCII CCSID is not supported by LS:DO. Even if the ASCII table is not used, DB2 with this CCSID causes a problem in LS:DO.

## Roaming User issues

Domino Administrator Client, Notes Client, Domino Designer

### Roaming User upgrade not supported via Passthru server

Roaming User upgrade is not supported on a Client that is configured to access the Roaming server via a passthru server. If a user with this configuration has initiated a Roaming upgrade, they will receive a prompt to upgrade to Roaming on that Notes Client. They should decline the upgrade on this machine to prevent configuration problems. The user can successfully upgrade on other Notes Clients that access the Roaming server directly.

## Search issues

Domino Administrator Client, Domino Server

### Restricted field names in full-text indexing

Some field names are not supported in full-text indexing. Do not use these field names when creating forms in databases because these fields are not searched in full-text indexing:

- \$Revisions
- RouteTimes
- \$Hops
- UserCertificate
- Certificate

## Security issues

Domino Administrator Client, Domino Server

### LDAP SSL SASL bind ignores Allow and Deny Server Access lists

When using Access Server or Not Access Server lists (Server Document, Security Tab) in conjunction with 'Enforce Server Access Settings' set in the servers document (Ports -> Internet Ports -> Directory), Secure (SSL) LDAP SASL binds from the Notes Client with Internet Client Certificates will ignore such lists.

Domino Administrator Client, Domino Server

### LDAP using SASL authentication doesn't fail-over to Anonymous

Normally, Internet Client Certificate authentication from the Notes Client does fail over to Anonymous, over SSL, when the authentication settings are set to "Client Certificate: Yes", "Name & Password: No", "Anonymous: Yes" in the server document Ports -> Internet Ports -> Directory, or LDAP internet site document.

However, when the Notes Client uses SASL settings, the Notes Client tells the server that it would like to use Client Certificate authentication; when this is the case and no Internet Client Certificate is present in the notes.id file, the server is unable to authenticate the user, and will not allow them to search the directory anonymously either.

Domino Server

### Misleading error message re: validating agent execution access

For Domino 7, server access as defined in the "Access server" lists on the Security tab of the Server document applies to the signer of server-based agents. This is a change from R5.

Domino Administrator Client, Notes Client, Domino Server

### Importing Certificates from Smartcards

Domino 7 has the ability to import preloaded X.509 certificates from smart cards or tokens without first smartcard-enabling the ID file. This allows users to use keys that were pre-loaded onto read-only tokens and therefore cannot currently be used to lock the Notes ID file. As long as the PKCS#11 library is correctly configured and a token is present in the reader, then the "Import Internet Certificates from a Smartcard" menu option will be available as described in the "Importing Certificates from Smartcards" release note.

However, there are limitations to this mode of operation in the current release.

- Background processes, such as Just-In-Time encryption, are currently unable to prompt for the PIN, and so will only be able to use keys on the token if the token supports a protected authentication path and will therefore be able to prompt for the PIN itself.
- If an ID file utilizing this feature is subsequently locked with a second smartcard, it may become impossible to use any keys on the initial token on a single-slot system, since removing the smartcard that locks the ID file from the reader to insert the initial token will log the user out of Notes.
- Some older versions of Notes/Domino will be unable to use the key stored on the token.

Domino Administrator Client, Domino Server, Domino Web Access

### Key rollover for DWA users not supported

Key rollover is a Domino 7 feature that allows Notes 7 users and Domino 7 servers to obtain the larger Notes encryption and signing keys supported by this release. Key rollover is not supported for users of Domino Web Access and Domino Access for Microsoft Outlook users.

For more information on key rollover, see the topic "User and server key rollover" in the Domino Administration Help.

Domino Administrator Client, Domino Server

### **LDAP SSL SASL bind ignores Allow and Deny Server Access lists**

When using Access Server or Not Access Server lists (Server Document, Security Tab) in conjunction with 'Enforce Server Access Settings' set in the servers document (Ports -> Internet Ports -> Directory), Secure (SSL) LDAP SASL binds from the Notes Client with Internet Client Certificates will ignore such lists.

Domino Administrator Client, Domino Server

### **LDAP using SASL authentication doesn't fail-over to Anonymous**

Normally, Internet Client Certificate authentication from the Notes Client does fail over to Anonymous, over SSL, when the authentication settings are set to "Client Certificate: Yes", "Name & Password: No", "Anonymous: Yes" in the server document Ports -> Internet Ports -> Directory, or LDAP internet site document.

However, when the Notes Client uses SASL settings, the Notes Client tells the server that it would like to use Client Certificate authentication; when this is the case and no Internet Client Certificate is present in the notes.id file, the server is unable to authenticate the user, and will not allow them to search the directory anonymously either.

Domino Server

### **Running LDAP over SSL crashes MS Outlook Express**

Due to a third-party software limitation, running LDAP over SSL may crash some old versions of Microsoft Outlook Express.

## **Server issues**

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

### **Compact -a and -A will not work on DB2 enabled servers**

Compact -a and -A are not working on DB2 enabled servers; archiving will not work. When attempting to run, you will get this error:

```
Error compacting mail\jdb2.nsf: This feature not yet implemented for DB2 based .nsf(s)
```

Domino for i5/OS

### **Domino 7 for i5/OS Java Console Limitations**

Following are the Java Console limitations for Domino 7 for i5/OS:

#### **Ending a server from the Java Console**

To End the Domino server from the Java console issue either of the following commands:

- QUIT
- RESTART SERVER

The following Java Console options are not supported to end i5/OS Domino server:

- Menu: File->Stop Server
- con kill domino
- con restart domino

If you issue any of these commands, the WRKDOMSVR panel will show that the server is in an \*ENDING state, however the server does not end.

#### **Multiple Java Server Console Instances**

If you intend to use more than one instance of the Java Server Console on the system, the first Java Server controller that starts will bind to port 2050. Subsequent requests to start the Java Server controller for another Domino server will attempt to use that same port and will fail.

#### **Workaround**

To start more than one Java Server controller, manually create or edit the dcontroller.ini file in the Domino server's data directory and specify the IP address of the Domino server and a port number other than 2050.

Domino Server, Domino for i5/OS

### Domino for i5/OS Java Console limitations

To shut down the Domino server from the Java console, issue one of these commands:

```
QUIT
RESTART SERVER
```

The following Java Console options are not supported to shut down the i5/OS Domino server:

- The menu command: File - Stop Server
- The server console command: kill domino
- The server console command: restart domino

If you issue any of the above commands, the WRKDOMSVR panel indicates that the server is in an \*ENDING state, but the server does not shut down.

Domino Server

### Domino for Linux on zSeries jconsole program limitation

The following is a list of Domino Console restrictions for Linux for zSeries:

1. The **jconsole** command may be run from a Linux for zSeries system by setting the DISPLAY environment variable to point to a workstation running the XWindows server.

Domino Server

### Domino Profile Setup can't get system databases from filesystem

The Domino Server Setup program has an option for setting up an Additional Server that allows the user to obtain the server's system databases from the filesystem, including a CD, or a network drive, instead of replicating them from the Domain Server. This option can be selected on the panel entitled "Provide the system databases for this Domino Server", with a checkbox field called "Get system databases from CD or other media".

The Domino Server Setup program also has the ability to record a Server Setup Profile, which will record the information for a server configuration in a file that can be applied either locally or remotely, as well as with a -silent option. Applying this Server Setup Profile will configure the server specified using the configuration information that was recorded.

Currently, a problem exists with the Server Setup Profile recording process that makes it unable to retain the option "Get system databases from CD or other media" when it is selected. If a user selects this option while recording a Profile, it will not be applied when a server is setup using that Profile.

The workaround to this problem is to either allow the Server Profile Setup to obtain the system databases from the Domain Server (which requires that the Domain Server specified be running and reachable over the network), or to perform the Server Setup (locally or remotely) without the use of the Profile.

Domino for i5/OS

### Features not available in Domino 7 for i5/OS

The following features of Domino 7 are removed or not available with the i5/OS platform:

- Cluster Enabled Domino has been removed.
- xSP hosting has been removed. If the CFGDOMSVR or CHGDOMSVR commands specify XSP(\*YES), the setting is ignored.
- NSFDB2 is not available.
- IPV6 is not available.

Domino for i5/OS

## Limitations and Restrictions for i5/OS

### XSL Transforms Disabled

XSL Transforms are disabled with Domino 7 for i5/OS to eliminate the potential for data corruption.

#### Workaround

You can explicitly re-enable transforms by setting the notes.ini variable Enable\_iSeries\_XSL=1. It is recommended that transforms be offloaded to the client.

### Java Server Console

If you intend to use more than one instance of the Java Server Console on the system, the first Java Server controller that starts will bind to port 2050. Subsequent requests to start the Java Server controller for another Domino server will attempt to use that same port and will fail.

#### Workaround

To start more than one Java Server controller, manually create or edit the dcontroller.ini file in the Domino server's data directory and specify the IP address of the Domino server and a port number other than 2050.

Domino Server

### Live Mode Memcheck requires AIX 5.3 or greater

Running NSD causes memcheck, the Domino memory checker, to be invoked. If you are using AIX version 5.2 or earlier, and you invoke NSD while Domino is running, then memcheck will not be executed. This is due to a limitation in earlier versions of AIX. You will see the following message in the NSD log file:

```
Live Mode Memcheck requires AIX 5.3 or greater, memcheck terminating
```

Domino Server

### Message reporting on non-Windows machines

The message reporting feature of Domino creates bar charts in some of its reports. These bar charts are created using the Java Abstract Windowing Toolkit (AWT). AWT is the interface between Java and the windowing system native to the OS on which the server is running. On some platforms (i.e. Windows), the windowing system is always on and active; on other platforms (i.e., UNIX), this is not necessarily the case.

On those other platforms, a native windowing system, like X11, must be installed and running in order for the message reporting feature to work correctly.

Domino Administrator Client, Domino Server

### NSD does not capture domdsmc stack

If NSD is enabled in the Domino Directory on Lotus Notes 7 or the Domino 7 server, if the server or client crashes, NSF runs but it does not capture the domdsmc stack.

Domino Administrator Client, Domino Server

### Problem with memory leak tracing code

If a memory leak is detected when the Domino 7 server is running, the tracing code cannot store all of the reported handles. This is due to the 64K limit of AVL trees.

Domino Server

### Relative directories issue with ISMP installation

Please use the absolute directory when running an ISMP installation; the relative directory is not supported for Domino 7 Server installation with the ISMP installer.

Domino Server

### Remote server Setup from UNIX to W32 cannot be silent

When attempting to perform a Remote Server Setup, using a UNIX system as the Remote Setup client, the program will have problems setting up a Server on a W32 system (Windows 2000 or Windows NT4).

This only occurs when the user attempts to use the "Silent Setup" option. This would be invoked with the following command-line:

```
remotesetup <serverhost> -silent <path to Setup Profile> =<path to notes.ini on serverhost> -pb
```

The problems occurs this way because the Silent Setup option requires a path to the notes.ini file for the server being setup remotely. However, when the Remote Setup client is on a UNIX system, it is unable to interpret a W32 path, such as "C:\Lotus\Domino\Data\notes.ini". This causes the Setup program to write the following error message to the errorlog.txt file (where Silent Setup log output is written):

**Could not find 'notes.ini' as specified on command line**

The workaround to this problem is to use the Remote Setup client on UNIX system in GUI mode only. If a Profile is to be used, then the "-playback" option can be given to the remotesetup command as follows:

```
remotesetup <serverhost> -playback
```

or

```
remotesetup <serverhost> -pl
```

This will allow the user to manually select the serverhost to be setup, and then to proceed through the Profile in GUI mode on the remote UNIX client system.

Domino Administrator Client, Domino Server

### Spaces in directory names on UNIX causes nsd.sh to fail

When Domino 7 runs on Linux, spaces in directory names are not supported. If there are spaces in directory names, the nsd.sh script fails to run.

Domino Administrator Client, Domino Server

### STOP PORT console command may hang the server

The STOP PORT console command disables the specified port for Domino and all Internet services. It also signals all active sessions to be terminated. The RESTART PORT command performs a STOP PORT command followed by a START PORT command.

#### Problem for all Platforms:

If all sessions have not yet terminated and all listening services have not completely shut down and then the START PORT command is issued it is possible to hang the server or put the server in a state such that it will hang on shutdown.

As a result we discourage the use of the STOP PORT console command and RESTART PORT console command. If STOP PORT must be used, please wait a few minutes after issuing STOP PORT before the START PORT command is issued.

#### Problem for Windows Servers:

If Domino is running with any child processes (it almost always does), a known problem in Windows will cause the Domino server to become unresponsive following a RESTART PORT command or a STOP PORT / START PORT sequence. The problem is documented in Microsoft Article 177074. There is no known workaround at this time.

We recommend that STOP PORT and RESTART PORT not be used on Windows servers.

Domino Server, Domino for z/OS

### **z/OS Native Console Restriction**

The following is a list of Domino Console restrictions for z/OS:

1. The **jconsole** command may be run from a z/OS system by setting the DISPLAY environment variable to point to a workstation running the XWindows server.
2. If you are using zOS Console Support for Domino, be sure you use a unique user ID for each Domino server partition (DPAR).

Domino Server, Domino for z/OS

### **z/OS: zFS filesystem limitation**

On z/OS, we do not recommend using the z/FS aggregate dynamic GROW feature for Domino file systems. z/FS is based on a UNIX file system software product that can take minutes (15 minutes in some cases) to grow a z/FS file system in an aggregate. During the time the z/FS aggregate is grown, all file systems within an aggregate are quiesced, in order to format the expanded part of the file system. We feel this quiesce would be detrimental to Domino, as all disk I/O and client responses would cease during the aggregate GROW process.

We also recommend you continue to monitor the console log for the message "Warning: cannot merge full text index a/notes/data/mtdata/mtstore.ft due to insufficient disk space" and manually grow z/FS file systems as needed during off-peak hours.

Domino Administrator Client, Domino Server

### **"System" databases cannot be compacted**

In the current release, the events4.nsf and names.nsf system databases cannot be compacted.

## **Web Services issues**

Domino Server

### **Cannot deserialize multi-dimensional array in LotusScript**

Multi-dimensional arrays as input to a LotusScript Web Service are not supported in this release.

Domino Designer

### **Earlier Web Service design elements do not open**

LotusScript Web Service design elements created with early Domino 7 beta builds may not be able to be opened with the gold build. In this case, the following error message will be displayed:

```
"Unexpected error initializing the Web Service design element: Unexpected: no  
err message"
```

Domino Designer

### **LotusScript runtime deserialization into empty dynamic arrays**

User-defined classes may contain dynamic arrays. As input parameters to some operation in a LotusScript Web service, these must be initialized in order to be dereferenced by service code without abending on an "uninitialized dynamic array" error.

The LotusScript Web service runtime re-dimensions such arrays to a length of one empty element, as-needed i.e., during deserialization, when no array elements are present in the incoming SOAP request.

Domino Server

### **LS Web Services do not yet support SOAP multireference encoding**

LotusScript Web Services do not yet support client requests that use SOAP multireference encoding (i.e., href/id attributes for "reusing" common values)

Domino Designer

### **Multi-byte characters in WSDL documents**

WSDL documents are Unicode-based XML documents, and as such, may contain characters which are multi-byte in local operating system character sets. Because of file-system dependencies, WSDL import does not yet succeed with WSDL documents containing such characters.

Domino Designer

### **XML schema mechanisms "include" and "import" are not supported**

The XML schema mechanisms "include" and "import" are not supported. That is, any XML schema defined in an imported WSDL document must not refer to any external XML schema documents.

## **Known problems and workarounds**

### **Application Development issues**

Notes Client

#### **Java Debugger needs file copied into Notes binaries directory**

In order to use the Java Debugger, the file `dt_socket.dll` must be in the Notes binaries directory; it is currently installed in the `jvm/bin` directory in the Notes binaries directory.

If you try to use the Java Debugger without `dt_socket.dll` in the Notes binaries directory, Notes will crash. Simply copy `dt_socket.dll` from `jvm/bin` to the Notes binaries directory to work around this problem.

### **Calendar and scheduling issues**

Notes Client

#### **2nd-level delegator in iCalendar receives unexpected reschedule**

On an iCalendar repeating meeting with two levels of delegation, the 2nd-level Delegator receives a reschedule unexpectedly.

#### **Workaround**

Since the user has already delegated the meeting, they cannot accept the reschedule. The user can delete it manually out of their mail file.

Notes Client

### **Calendar Managers always go to the Week View tab**

When a Calendar Manager selects the All Calendar Entries tab (any option under it) and then try to return to the Day or Month Calendar Views, it will always return them to the Week View. Once on the Week View, the Calendar Manager can change to the Day or Month View.

Notes Client

### **Error responding delegated repeating invitation in meeting views**

Users receive "You must select an instance document to perform these actions" while responding to a delegated repeating invitation from the meeting views

#### **Workaround**

Open up the delegated invitation, and respond from it.

Notes Client

### **iCal: responses from Outlook Invitee comes as winmail.dat**

When Outlook invitee responds (Accept/Decline/Tentatively) to a meeting sent by Notes Chair, the responded notice comes over as a win.dat mail attachment.

#### **Workaround**

When the Outlook Invitee is replying, choose Respond with Comments. Before mailing, double click on the recipient's (chair's) name and uncheck "Always Send To This Recipient In Microsoft Exchange Rich-Text Format". The Notes chair will receive a Notes C&S workflow reply.

Notes Client

### **Invitations via SMTP can now transmit images**

When you send a meeting invitation over SMTP and include an image file in the Description field, the recipient now receives the image. You can also include images in the comment window when you respond to a meeting with comments.

Notes Client

### **Online Meeting Password and Restricted Options**

In Notes/Domino 7, meeting Chairs now have the option to send an Online Meeting with a password and/or to restrict the Online Meeting to only the invitees of that meeting. Invitees of the meeting will only receive these options if they are currently using a Domino 6.5.4 or higher template and server.

#### **Workaround**

For invitees who are not using Domino 6.5.4 or higher, have the invitee look in document properties at the "Meeting Password" field, or send a request to the Chair to have them include the password in the body of the meeting.

Notes Client

### **Renamed users can not transfer direct-booked R&R reservations**

If a user has direct-booked reservations in the Rooms and Resources database, and the user is renamed, they will not be able to transfer these reservations.

In this case, the administrator has the option to transfer the reservation back to the user under their new name; then, the renamed user will be able to transfer the reservation.

Notes Client

### **Reschedule to non-Notes should apply to "Just this instance"**

Many non-Notes applications, like MS Outlook, do not support rescheduling to "This and all future instances" nor "This and all previous instances". For this reason, when sending a reschedule of an iCalendar event to a non-Notes application, Notes users should select "Just this instance".

## Client issues

Notes Client

### **Autosave - Enabling option in User Preferences doesn't roam**

In User Preferences, on the Basic tab, the "x minutes for Autosave" option does roam; however, the checkbox does not roam.

Notes Client

### **Autosave - Garbage characters may show up when server is down**

Users may observe error messages that contain garbage characters while an Autosave document is being recovered, or the user's Autosave database contains some documents waiting for recovery, while the server of that database is down, or in the process of failing over to another server.

Notes Client, Domino Designer

### **Autosave - May cause errors to printing**

Autosave may cause errors to printing for the following scenario:

1. There is at least one document in the Autosave database.
2. Open a mail file.
3. Click on an e-mail.
4. Choose "Ctrl+P" to print, click the OK button to print the document.

The user receives an error message which says "You cannot quit Notes because a dialog is active. Switch to Notes first, close the dialog and then exit Notes", followed by a dialog asking them if they want to recover autosaved documents. A new instance of Notes also appears in the taskbar. Printing works from the mail view, but the user may get numerous dialog boxes and new instances of Notes.

Notes Client

### **Autosave - Recovered mail always get appended with a signature**

If a user with the option to always include their signature on emails recovers an email message then their signature is added to this recovered message. Deleting the appended signature is suggested for a workaround.

Notes Client

### **Autosave - Response created in 6.x or prior cannot be recovered**

In the following scenario, a Response document cannot be recovered by Autosave:

1. Using a 6.x client, create a test database on 6.x server.
2. Create a new Main Topic and Response documents using the 6.x client; save them.
3. Using a 7.0 client, enable Autosave for those forms (Main Topic and Response).
4. Using a 7.0 client, modify the Response document until Autosave kicks in.
5. After Autosave kicks in, crash Notes.
6. Restart Notes.
7. In the Recover AutoSaved Documents dialog box, select the Response document, then Recover.

The Response document opens automatically, but it contains original content only. The modified content has not been saved.

Notes Client

### **Black Toolbar icons**

The small (18 pixels) toolbar icons sometimes appear black (just the mask). This occurs most often in low memory situations.

There are several workarounds:

1. Switch the default toolbar icon size to large (24 pixels) by right clicking on the toolbar and selecting Toolbar Preferences, then changing Button size from small to large.
2. View the Windows display settings by right-clicking on the Desktop and selecting Properties, then clicking the Settings tab. If the Color Quality setting is set to True Color (32-bit), changing the display settings to 16-bit, or 256 Colors; it usually fixes the icons.

Domino Administrator Client, Notes Client, Domino Designer

### **Buddy list doesn't get populated with "Show online people only"**

When "Show online people only" is enabled, sometimes the buddy list doesn't get populated automatically. It may partially be populated. The workaround is to toggle the option in right-mouse-click menu or User Preferences > Instant Messaging.

Notes Client

### **Compacting a desktop with private views**

When you wish to compact the Desktop file, please be sure to close all private views first. Attempting to compact the desktop while a private view is open will result in a Notes Client crash.

Notes Client, Domino Server

### **Delivered message has no Sender on Notes Client UI**

Once a recipient has received a message, the "Who" field is left blank when viewing with a Notes client. When opening with an Internet client, the field is correct.

Notes Client

### **Hovertext for embedded contact lists not working**

The extended status text that pops up when 'hovering' the mouseover name displaying IBM Lotus Instant Messaging and Web Conferencing awareness does not currently work for embedded contact lists.

Notes Client


### **iCalendar: All Day events are not converted properly**

The iCal's "All Day events" are not converted properly into Notes' "All Day events".

Domino Administrator Client, Notes Client, Domino Designer

### **Invite at least two persons to Instant Chat Meetings**

You can start an Instant Chat Meeting from the menu or from the Button bar.

- From the menu, choose Create - Instant Meeting - Start Instant Chat Meeting or File - Instant Messaging - Start Instant Chat Meeting.
- From the Button bar, click the Instant Chat Meeting button: 

Which ever method you use, you should invite at least two persons to the meeting. If you invite a single person, Instant Chat Meeting will work on every other attempt. Try to use "Chat" instead of "Instant Chat Meeting" when you want to talk to a single person.

Notes Client

### **Known issues with IM Meetings if POP-UP blocker is turned on**

Known issues attempting to connect to Instant Messaging Meetings within Notes if POP-UP blocker is turned on.

If you experience an issue with the Browser window failing to launch Instant Messaging Meetings when Running Windows XP Service Pack 2 or if you receive a message "Dummy Window to open URL" and are unable to connect when running Mozilla 1.7 as your browser, check to see that Pop-Up blocker is turned off.

Please see Tech Note 1176141 for other possible workarounds.

Notes Client

### **Notes crashes if Admin Client is opened from Tools menu twice**

Notes crashes if you attempt to open the Administrator Client from the Tools menu more than once. The first time, the Admin Client will open and work fine. If you close the Admin client and then reopen it, Notes will crash. Be sure to save all your work before doing this.

Notes Client, Domino Designer

### **Opening Preferences of a Notes Mail Database Results in Error**

Opening the Preferences of a mail database results in the following error: "Soft delete expire time must be less than 65535" followed by a second error: "Notes Error - field didn't pass validation formula."

This issue occurs when the Soft Delete expire time has been set to a value greater than 65535 using either LotusScript (UndeleteExpireTime property of the NotesDatabase class), or manually on the Advanced tab of the Database Properties.

#### **Workaround**

After the error occurs reset the expire time to a value below 65535.

Notes Client, Domino Designer

### **TweakUI and Notes**

TweakUI is Microsoft PowerToys tool, and is not supported by Microsoft or Lotus. There are known problems:

1. Notes client is auto-raised when the option is not selected.
2. Notes client may crash or hang at various operations - starting up, opening db, etc.

#### **Workaround**

Completely uninstall TweakUI via the Control Panel. If the uninstall is unsuccessful, or if you still have problems running Notes, the Windows OS needs to have the registries cleaned. Please consult Microsoft when uninstalling TweakUI.

**Note:** It is strongly recommended that you do not install any unsupported tools on your system.

Notes Client

### **"Formula must evaluate to text" error on Welcome page**

When opening the My Work Welcome page (formerly called "Workplace") you may receive a "Formula must evaluate to text" error.

#### **Workaround**

- Open your bookmark.nsf in Domino Designer
- Go to 'Views'
- Click on the view called "(Downloads)" and click 'Design - Preview In Notes'

You will most likely see two \$branding documents there. If you do, see the "Multiple \$branding documents" section below.

If instead you see two documents with the **exact** title of "\$branding4AA10721D4DE2AFF85256D4F003B84B4", see the "Multiple \$branding+UNID documents" section below.

#### Multiple \$branding documents

- Look at the far-right column for the UNID's of the \$branding documents.
- Select the \$branding document that does NOT have a UNID that starts with "3493F249..."
- Press DEL (ignore error message)
- Press F9 key so that the \$branding document is permanently deleted from the database
- Close the view
- Close Notes and reopen

The "Formula must evaluate to text" error should not appear.

#### Multiple \$branding+UNID documents

If you see two documents with the exact title of "\$branding4AA10721D4DE2AFF85256D4F003B84B4"

- Look at the far-right column for the UNID's of these documents
- Select the document that does **not** have a UNID of "3887F989A309670F85256F97004F"
- Press DEL (ignore the error message)
- Press the 'F9' key so that the \$branding document is permanently deleted from the database
- Close the view
- Close Notes and reopen

The "Formula must evaluate to text" error should not appear.

Domino Server

#### "Searchresults No Documents Found" searching via browser

When searching a database such as the Domino Directory from a web browser (either directly browsing to names.nsf or through webamin.nsf) the "Search" button (red below) may appear not to be working.



When you enter a value in the field for which you expect results to be returned, and you receive the following:

**Searchresults** No Documents Found

it may be an indication that the database is not full-text indexed.

The "Start with" button (the other button shown above) will work without the database being full-text indexed.

## DB2 issues

Domino Designer

#### Actions run on federated data in query views may cause errors

When a user executes an action (an agent visible in the Actions menu) from within a query view containing federated data, they may immediately receive an "invalid or nonexistent document" error. This occurs because the client attempts to open the first note on which the cursor is positioned. If this note contains federated data, the client cannot open it, and the action fails to execute.

#### Workaround

Execute the action from a different view.

Domino Designer, Domino Server

### Date ranges are not being utilized with DAVs

In Notes, a Date/Time field can be both a multi-value field and a range field. So a field could have values like:

06/06/2004 (single value)  
 07/07/2004;07/09/2004 (multi-value)  
 08/08/2004 - 10/10/2004 (range)  
 07/07/2004; 07/09/2004; 08/08/2004-10/10/2004 (range and multi-value)

Currently, if you create a form with a multi-value date field with records that contain the above data, and then create a DAV with a multi-value date field (delimited, etc) and populate it, you will see all the above data displayed as simply multi-value. The former range values are changed to multi-value. The examples above would look like:

06/06/2004 (single value)  
 07/07/2004;07/09/2004 (multi-value)  
 08/08/2004;10/10/2004 (was a range, now multi-value)  
 07/07/2004;07/09/2004;08/08/2004;10/10/2004 (was range, is now multi-value and multi-value)

If you then try to insert from SQL, specifying a multi-value data set works fine but specifying a range does not. So the command:

```
insert into xx.md (multy_date)
values('2008-06-06-00.00.00.000000-2009-06-08-00.00.00.000000')
```

would return '06/06/2008' in the Notes record. It actually drops the second value because it doesn't understand the '-' indicating a range.

Domino Administrator Client

### DB2 databases may appear as NSF in the Files list

If DB2 services are unavailable, NSFDB2s created using an earlier beta build will appear as NSFs in the Files list, not as NSFDB2s (NSF icon).

Domino Designer

### Document locking introduces problems with DAVs

If you are using DB2 Access Views (DAVs), you cannot use the Notes database document-locking option.

Domino Administrator Client, Domino Server

### DOMCHANGE.NSF database should not be DB2-enabled

The database DOMCHANGE.NSF is used by the Activity Trends administration tool. Activity Trends is not DB2-enabled; therefore, DOMCHANGE.NSF must not be created as a DB2-enabled Notes database. If you set up Activity Trends on a DB2 enabled Domino server, complete this procedure.

**Note** If Activity Trends was set up before you enabled the Domino server to communicate with DB2, no changes are necessary.

- Using the database template DOMCHANGE.NTF, create the database DOMCHANGE.NSF.
- Open the Server document, and then locate the Administrators field and the Full Access Administrators fields.
- Create an ACL entry for each item in those fields, using these settings:
  - Manager access
  - Change Admin, System Admin, Plan Reader, Plan Creator roles
- Create an ACL entry for the server, using its canonical name, and then assign these settings:
  - Server user type
  - Manager access
  - Make the server the administration server of the database

5. Sign all documents in the database with the server's ID by completing these steps:
  1. Move the DOMCHANGE.NSF database to the data directory of the Notes client.
  2. Start the Domino Administrator.
  3. Switch to the server's user ID using the File - Security - Switch ID menu items.
  4. In the Domino Administrator, click Files, and then right-click on the database name DOMCHANGE.NSF.
  5. Select sign, and then choose "Active User's ID" as the ID you want to use.
  6. Choose "All data documents" in the field "What do you want to sign?"
  7. Copy the database to the DB2-enabled Domino server's data directory.

Domino Designer, Domino Server

### Inserts during DAV population

If a user attempts to insert a record, using the Notes client, into a DAV while the DAV is being populated, there is a likelihood that the new document will not be added to the DAV.

#### Workaround

Avoid client-side inserts while the associated DAV (to which the user expects the inserted documents to be added) is being populated.

Domino Administrator Client, Domino Server

### Moving a database to another DB2 group on AIX

The Move to Group command in the Domino Administrator client, accessed by clicking the File tab, and then choosing Tools - DB2 Groups - Move to Group is not case-sensitive. The Move to Group command from the Tools menu does not recognize database names composed of mixed-case characters, that is, both upper and lower case characters. If you attempt to move a database that is composed of mixed-case characters, an error is generated.

If you are moving a database that has a name composed of mixed case characters, use the server console command, DB2 group move. For example, at the server console command line, type

```
db2 group move MIXeD.nsf grp54
```

where:

- db2 group move is the server console command
- MIXeD.nsf is the database name composed of both upper and lower case characters
- grp54 is the name of the DB2 group to which you are moving the database

Domino Administrator Client, Domino Server

### Moving a DB2-enabled Notes database containing a DAV

Using the Domino Administrator client to move a DB2 enabled Notes database that contains a DAV, changes the NSFSCHEMA property of the DB2 enabled Notes database. This effectively changes the view name used when running queries against the DAV. For example, a DB2 enabled Notes database named myData.nsf may initially have an NSFSCHEMA named MYDATA. DAVs created for myData.nsf would be queried by accessing the view MYDATA.DAVNAME. Using the admin client to move myData.nsf to another DB2 group (for example., GRP1 to GRP8) results in the NSFSCHEMA being changed to something else. In this example, assuming no other DB2 enabled Notes databases were similarly named to myData.nsf, the NSFSCHEMA would most likely be changed from MYDATA to MYDATA2. Queries written against the DB2 view MYDATA.DAVNAME will need to be modified so that they now query MYDATA2.DAVNAME.

**Note:** Applications using the recommended @DB2Schema function will work without changes to the NSFSCHEMA property.

Domino Administrator Client, Domino Server

### Moving a DB2 container to another physical location

The DB2 Move Container feature is not available in the Limited Availability release of Domino 7 and DB2. The DB2 Move Container feature physically moves a tablespace container to another physical location. Use one of the two workarounds described below to move a DB2 container.

#### Workaround 1 -- For the DB2 administrator to perform

If it is necessary to physically move a tablespace container, that is, an x.DB2GRP file, to a new location, complete this procedure from the DB2 command line processor (CLP). In this example, the original location of tablespace container is C:\Lotus\Domino\Data\2.DB2GRP and the new location of tablespace container will be D:\newdir\2.DB2GRP.

1. Connect to the database.

**Note** In Steps 2, 3, and 4, <group> refers to the tablespace name not the tablespace container (file system) name and is case sensitive on IBM AIX systems. In the example, GRP2 is the tablespace name and would be entered in place of <group>; 2.DB2GRP is the tablespace container name. On IBM AIX systems, be sure to set up the appropriate ACL for the directory you are using.

2. Enter this query to determine the size of the original container:

```
db2 => SELECT TOTAL_PAGES FROM TABLE (sysproc.snapshot_tbs_cfg(' ', -1)) AS
t1 WHERE TABLESPACE_NAME = '<group>'
```

These messages display:

```
Total Pages 4032
1 record(s) selected.
```

3. Add a new container of the same size in the new location, by typing this command:

```
db2 => ALTER TABLESPACE <group> ADD (FILE 'D:\newdir\2.DB2GRP' 4032)
DB20000I The SQL command completed successfully.
```

4. Drop the original container by typing this command:

```
db2 => ALTER TABLESPACE <group> DROP (FILE 'C:\Lotus\Domino\Data\2.DB2GRP')
DB20000I The SQL command completed successfully.
```

**Note** For large tablespace containers, the command "ALTER TABLESPACE ... DROP" may fail with the error "SQL0258N Container operations cannot be performed while a rebalance of the table space is pending or in progress. SQLSTATE=55041". To resolve the error, when rebalancing is complete, re-enter the command

```
db2 => ALTER TABLESPACE <group> DROP (FILE 'C:\Lotus\Domino\Data\2.DB2GRP')
```

#### Workaround 2 -- For the Domino administrator to perform

Use this workaround to move a container indirectly by creating a new DB2 group on a different directory, and then moving files from an existing DB2 group to the new DB2 group.

1. On the DB2 server, create the directory in which you want to add the new DB2 data.
2. From the Domino Administrator, attach to the desired server.
3. From the Domino Administrator, click Configuration.
4. Choose Server -- Current Server Document, and then click Edit Server.
5. Click DB2 to open the DB2 tab.
6. In the Directory field, remove the existing directory and type the name and path of the directory in which you will store the DB2 data.
7. Save and close the Server document.
8. Wait for the server to process the change, or from the server console, type
 

```
Restart server
```
9. From the Domino server console, verify that the new directory information exists by typing
 

```
SHOW CONFIG DB2DIRECTORY
```

10. From the Domino Administrator, click the Files tab.
11. Select DB2 Groups from the tree, and then select the group that contains the DB2 enabled Notes database that you want to move.
12. Right Click on the selected file, and then select Move to Group. (Optionally, you can use Tools - DB2 Groups instead.)
13. Click the check box, Move to new group.  
**Note:** If there are no groups to move to, the check box is selected by default.
14. Click Move.
15. The DB2 data is added to the new directory.
16. To move additional files to the new DB2 group,
  - From the Files panel and the group database list, select the DB2 database that you want to move.
  - Repeat Step 11.
  - Select the new DB2 group that you just created, and then click Move.
17. If you no longer need the old container, lock the old groups.

Domino Designer

### **New copy of DB with QV causes 'Invalid or nonexistent document'**

On a DB2-enabled server, creating a query view in a database, and then copying that database, results in an error message opening that query view in the copied database, as in the following scenario:

1. In a database:
  - Create a form with a few fields that will be used to populate the database
  - Create a few documents using the form
  - Create and populate a DAV using the form & fields
  - Create a query view returning all fields from the DAV ("Select \* from dbname.davname"), and columns to show the fields
  - Open the query view in the client; verify the view opens correctly and documents can be opened from the query view
2. Make a copy of the database
3. In the copied database, open the query view
4. Open any of the documents
5. You will see the error 'Invalid or nonexistent document'

#### **Workaround**

Open the newly-copied database in Designer. Check the 'DAV - update as necessary' option. Check the Query View's SQL statement; modify it so that the database name and DAV name matches the newly-copied database names.

Domino Designer, Domino Server

### **Query view - updates return incorrect data**

If a query view built using a join of Notes data and DB2 data is updated by opening a record and updating a field in a Notes document, incorrect data is returned in the columns of the federated (non-Notes) data.

#### **Workaround**

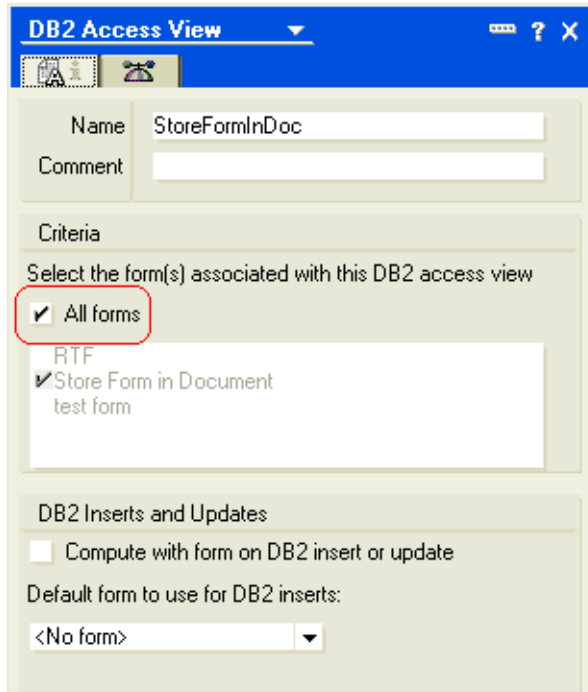
Press SHIFT + F9 to correct the view.

Notes Client, Domino Designer

### Query view does not show docs with stored form

When "Store form in document" is enabled in form property, query view based on the form doesn't show documents in view.

Workaround is to set "All" for DB2 Access View as below:



Domino Server

### Query views cannot view federated data external to DB2 table

Because of a current DB2 bug, query views cannot view federated data outside of the DB2 databases in which they reside.

Domino Designer, Domino Server

### Refreshing Query View returns incorrect data

If you refresh a Query View in Designer, it returns all documents, not the data specified in the Query View SQL statement.

Domino Administrator Client, Domino Server

### Views w/ both categories and responses in DB2-enabled Notes dbs

When complex views containing both backslash-created category values and responses are opened in a DB2-enabled Notes database, some documents may be missing from the view. Likewise, when the views are navigated by application code, view entries may be missing.

#### Workaround

Keep these databases in NSF format.

Domino Administrator Client, Domino Server

### **Web Admin database created as DB2-enabled Notes database**

When the default database type for new Domino databases is set to DB2 on a DB2-enabled server, and the Web Administrator database (webadmin.nsf) has not yet been created, running the http task on the server will result in the Web Administrator database being created as a DB2-enabled Notes database. The Web Administrator database in this form is unusable, so this should be avoided or the database deleted.

#### **Workaround**

Make the default database NSF and (re)create the Web Administrator database.

## **Designer issues**

Domino Designer

### **Crash copying form actions to view**

If you copy multiple Form actions to the clipboard (Ctrl + C) and attempt to paste to a View that has ZERO actions, Notes crashes.

#### **Workaround**

Copy only one action and paste it into the view the first time. After there is one action in the view, multiple Form actions can be pasted.

Domino Designer

### **Errors in agents imported by DXL not highlighted in Designer**

If you use the DXL Importer to create a LotusScript agent that contains LotusScript syntax errors, and then open the agent in Designer (having first signed the agent with the Administrator Client or programmatically), the Designer may not bring the syntax errors to your attention, and may allow you to add more incorrect lines of LotusScript code without receiving a warning. The Designer may also allow you to save the agent with the errors present, though note that the agent will not execute.

You can correct this problem by re-importing the agent with the LotusScript syntax errors corrected in the DXL.

Notes Client, Domino Designer

### **Query view & View Selection formula with specific Form selected**

When a Query View is created with a View Selection formula, make sure that any design elements specified in your formula also have an associated DAV field.

For example, if you created a query view with SQL "SELECT \* FROM NSF\_NAME.DAV\_NAME" and the view selection formula "SELECT form="form\_name" & @contains(field\_name; "sample"); your DAV should include "FORM" under source type "All".

In the above SQL example, a wildcard \* is used, but if you specify each field, you should include FORM specifically to get the correct result sets.

Domino Designer

### **Simple Actions cannot be used for new or changed view selections**

When creating a new view selection, do not use simple actions, as they will have no effect. Similarly, do not use simple actions when changing an existing view selection. Existing view selections employing simple actions should still work properly.

Using a formula with the same intended effects as the corresponding simple action can still be used for new and changing view selections. This can be used to work around the problem.

## Directory issues

Domino Administrator Client, Notes Client, Domino Server

### LDAP service clients using Microsoft Windows XP and SSL

Using LDAP with SSL on Microsoft Windows XP requires that a root certificate be present in the Microsoft client's certificate store. If the SSL server certificate for the LDAP server was not issued by one of the Certificate Authority roots built in to Internet Explorer, you must install a new root certificate.

1. Determine the name of the certificate authority that issued the SSL server certificate. Connect to the server, using SSL, with a Web browser. Do this by entering https:// when you enter the URL.
2. In the security alert dialog, click "View certificate" and see the name in the "Issued By" field. This is the common name of the issuing certificate authority.

**Note:** If you use https, and no security dialog is displayed, you may already have the required root or SSL server certificate installed.

3. Click Tools - Internet Options - Content - Certificates. You can view the SSL server certificate on the "Other People" tab, and see the "Issued By" name in this way. You can also check for installed roots on the "Trusted Root Certification Authorities" tab. If the issuing root for the SSL server in question is already present, no further action is required. If not, proceed to step 4.
4. Contact your administrator to locate the server running the Certificate Requests database for the issuing certificate authority identified in the previous procedure. The Certificate Requests database is commonly named "certreq.nsf". Open the database using the Internet Explorer Web browser (for example, [http://ca\\_server.com/certreq.nsf](http://ca_server.com/certreq.nsf)) and click "Accept this Authority in Your Browser." This installs the root certificate.

Domino Administrator Client, Domino Server

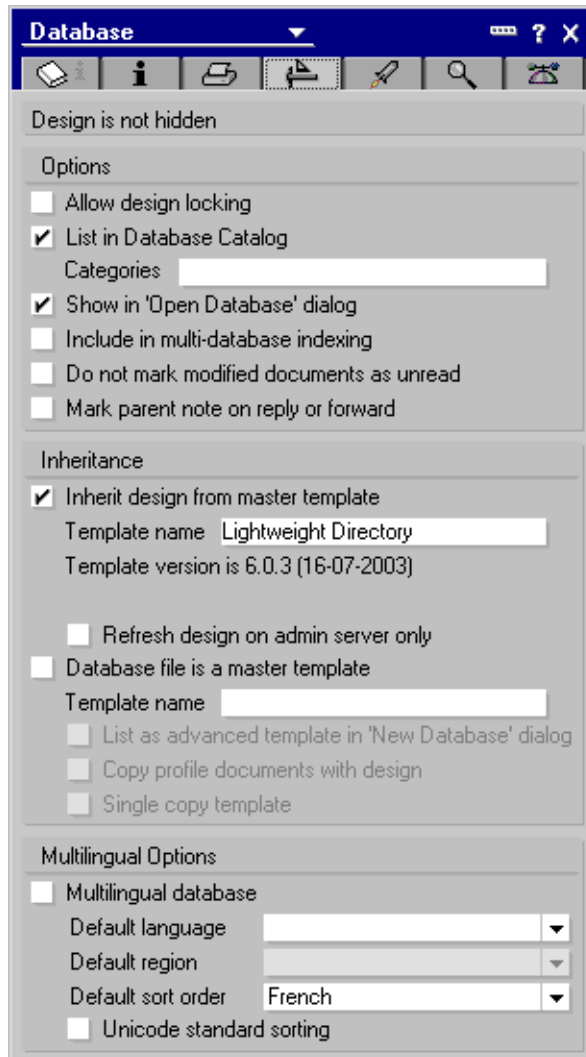
### Directory catalog sort ordering

When multiple documents from Domino directories are combined into single documents in a condensed directory catalog (CDC), they are stored in a particular ordering. When this intra-document order does not match the inter-document (that is, view sort) order, not all the expected lookup results may be returned. These ordering inconsistencies may result from differences between the Dircat aggregation server's locale and the locales of Notes clients using the CDC.

To create correct CDC(s), the administrator should perform the following three steps:

- Create **separate copies of CDC databases** (not replicas) for each distinct locale desired. For example, French and Danish users may each require a CDC sorted specifically to their respective language locale. It may be useful to include the locale in the file names e.g., `cdc-fr.nsf` and `cdc-dk.nsf`. If your international users don't mind using the same sort order, you then only need one CDC.

- Set each CDC's **"Default sort order"** in File - Database - Properties - Design to the desired value. For example, English users may want Latin1. Select "Unicode standard sorting" if a server is using the CDC, otherwise you may de-select this option so that all documents are collated according to the default sort order you just set:



- Perform a **full rebuild** of your CDC(s) using the "load dircat" Domino console command combined with the "-r" option.

Domino Administrator Client, Domino Server

### Enabling SSO for foreign LDAP directory entries with @ signs

This release note describes a workaround for foreign LDAP directory entries that contain an "@" sign in the relative distinguished name (RDN). In order for these users to use single sign-on to access a Domino server, Domino administrators need to do the following:

- Enter the LDAP DN in the "Shortname/User ID" of the Person document for each LDAP user that requires SSO access. The LDAP DN should be formatted in the Notes style, using slashes instead of commas.

- On the Internet Access section of the Security tab of the Server document, enable "More name variations with lower security."

For example, if the LDAP DN is:

```
cn=jane_doe@acme.com,ou=acme,o=acme,c=us
```

Then you would enter the following in the "Shortname/UserID" field:

```
cn=jane_doe@acme.com/ou=acme/o=acme/c=us
```

Domino Administrator Client, Domino Server

### **Problem with enabling anonymous queries through LDAP**

If you follow the procedure to allow anonymous queries through LDAP, as described in the help topic "Converting the default anonymous access settings to database ACL and extended ACL settings," a problem arises if there are any publicly available servers that run HTTP in the Domino domain.

The Domino Directory is now publicly available with Read access to all person documents. Since xACLs require consistent ACLs, there is no way to disable Anonymous access to the Domino Directory on servers that are running HTTP. This is not secure for customers with publicly available servers that provide Web site hosting for their applications.

#### **Workaround**

Disable Anonymous access on the HTTP port.

## **DOLS issues**

Notes Client, Domino Offline Services (DOLS)

### **Problems installing subscriptions with IE 5**

If users attempt to install a subscription using Internet Explorer 5.01, they may receive the following error: "Error 500 attempting to request offline configuration data" dialog appears, followed by "Error requesting offline configuration from the server."

#### **Workaround**

Users should install a later version of IE.

**Note:** If user attempts to install a subscription using Internet Explorer 5.0 with 128 bit encryption, they may receive the following error: "DOLS DSAPI error: user must be logged in in order to go offline." There is currently no workaround.

Domino Administrator Client, Domino Designer, Domino Server, Domino Offline Services (DOLS)

### **Limit subscription names to fewer than 30 characters/bytes**

Some subscription titles with international characters (double-byte or multi-byte) are truncated when the subscription is downloaded. The workaround is to use a title that contains fewer than 30 characters or bytes (if multi-byte).

Notes Client, Domino Offline Services (DOLS)

### Multiple directory catalogs may be confusing

Each Web Mail subscription installed on a Client can have its own directory catalog. This includes iNotes Web Access (R5), Domino Web Access (6) and Extended Mail (R6) databases, or any other customized DOLS enabled database that includes the directory catalog. If several subscriptions with directory catalogs are downloaded to the same machine, several issues may arise:

- Any user with a subscription on that machine can read all of the installed directory catalogs, since they will all be listed in the address selection dialog.
- All the directory catalogs with the same name will appear in the address selection dialog of any Web Mail subscription on that machine.
- Despite having the same name, directory catalogs can contain different information, if they have different replication schedules. If the user can't tell which one is most up to date, they may be using an outdated catalog.

#### Workaround

Make sure that all directory catalogs on the same Client have the same replication schedule.

Domino Administrator Client, Domino Designer, Domino Server, Domino Offline Services (DOLS)

### Problem viewing "Out of Service" databases on a clustered server

When a user installs a subscription offline, then an Administrator or Designer marks the online version "Out of Service," the user can still synchronize with a replica on another server in the cluster.

But when the user then tries to use the Web Control or Domino Sync Manager to view the database online, they get an error.

Domino Administrator Client, Notes Client, Domino Server, Domino Offline Services (DOLS)

### Internet password not synchronizing

If a user downloads a subscription, then changes their Internet Password in the Person document on the server, they get an "Access denied" error if they try to use the new password to open the subscription **offline**. This is because the password does not synchronize from the server to the offline Domino Directory (DOLNAMES.NSF).

#### Workaround

After deleting the subscription, and reinstalling, the user will be prompted for the sync password which is now different from the internet password. After synching, go offline, and you will now be able to enter the new internet password to access the db.

Domino Administrator Client, Domino Designer, Domino Offline Services (DOLS)

### Subscription desktop icons may not appear

A subscription icon may not appear on the desktop if the subscription:

- Has Unicode in the title, or
- Has a character in the title which the OS does not allow for a filename. For example, "/" is not allowed in a Windows filename; subscriptions with "/" in the title (first tab of the Offline Config Doc) will not have an icon on the desktop.

#### Workaround

To launch the subscription after the download you must launch it from the Lotus Domino Sync Manager.

Notes Client, Domino Offline Services (DOLS)

### Sync gets stuck with multiple subscriptions set at 1 minute

If you have multiple subscriptions installed, and all are set to synchronize every minute, one of the subscriptions may hang during synchronization at 100%. This shouldn't interfere with other subscriptions synchronizing. Close and reopen the Sync manager.

Domino Administrator Client, Domino Designer, Domino Offline Services (DOLS)

### **Users must be Reader or higher to install DOLS database**

Users must have at least Reader access in the Access Control List (ACL) of a DOLS-enabled database in order to install the database offline. A user with Depositor access or No Access trying to install a subscription will get an error.

#### **Workaround**

Upgrade the user's access in the database ACL.

Notes Client, Domino Server, Domino Offline Services (DOLS)

### **When browser prompts to "Work Offline?" choose 'No'**

If your browser prompts you to "Work Offline?" choose "No."

If you choose "Work Offline," there will be no live connection with a server, and you will not be able to synchronize.

Domino Administrator Client, Domino Designer, Domino Offline Services (DOLS)

### **Be consistent when encrypting subscriptions with shared files**

Make all subscriptions either encrypted or not encrypted, if you know your users will share a file among them.

A shared file will be encrypted or not based on whether the subscription it was first installed with was encrypted or not. Subscriptions which are installed after the first subscription may have a problem sharing that file if it was installed encrypted.

Domino Administrator Client, Notes Client, Domino Designer, Domino Offline Services (DOLS)

### **DOLS on a Domino Configuration Directory server**

When there are DOLS subscriptions on an additional Domino server configured as a "Configuration Directory" server, make sure the Security Policy is either "Prompt for ID" or "Auto Generate."

If the user tries to install a DOLS subscription from an additional Domino Configuration Directory server with a Security Policy of "Lookup in Domino Directory" they will get an Error 500, and the message "DOLS DSAPI error: No person record found in names.nsf for user <username>."

Domino Administrator Client, Domino Server, Domino Offline Services (DOLS)

### **Moving extended mail files from one server to another**

When you move an extended mail file from one DOLS-enabled Domino 5.0.5 or later server to another using AdminP, the move will not be completed.

This happens because the last step in moving these mail files is for the user to access the original file using Notes. When they do this, it updates the Notes Dialup Connection and Location documents in the Personal Address Book with the new mail file and new mail server information. Then a "Push changes to new mail server" request is created and the old mail file is deleted.

If a user accesses the original file with their browser using DOLS (or via replication) instead of Notes, this last step is not initiated.

The Administrator must use LotusScript to create an agent in the Administrator Request Database that will create the "push changes" request. The LotusScript can be downloaded from the Iris Sandbox on Notes.net. You can get the download from the following URL:

[http://www.notes.net/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/c425421e4e419540852568630079bb8c?OpenDocument&ExpandSection=1&Highlight=0,admin4.nsf#\\_Section1](http://www.notes.net/sandbox.nsf/ecc552f1ab6e46e4852568a90055c4cd/c425421e4e419540852568630079bb8c?OpenDocument&ExpandSection=1&Highlight=0,admin4.nsf#_Section1)

Notes Client, Domino Offline Services (DOLS)

### **Cancelling sync after wrong password causes security problem**

If Sync begins and then fails, the password may become corrupt. Uninstall and then reinstall the subscription.

Notes Client, Domino Offline Services (DOLS)

### **Desktop icon not changing when customized**

When users install a subscription offline, then add their own icons to the Customize subform, the Sync Manager shows the new icon, but the desktop icon does not change.

#### **Workaround**

Refresh the desktop or restart the operating system.

Notes Client, Domino Offline Services (DOLS)

### **Dircat path not removed from notes.ini when subscription removed**

If you create a mail file using the extended mail template (mail6ex.ntf), and DOLS enable it with a directory catalog, but do not select the option for shared files (on the Rules tab), when you download the subscription, the Names parameter in the Notes.INI file in the iNotes directory should look like this:

```
Names=dolnames.nsf,dols\Web user1 Mattel
US\9A55CD7D0D12BA385256A7100720089\dircat.nsf,dols\Web User2 Mattel
US\2EFE0803CB6E457285256A8C00746884\dircat.nsf
```

If you delete one of the subscriptions, the Notes.INI file Names parameter is not changed, and the subscription directory still appears in the drop down but you cannot access the directory.

Notes Client, Domino Offline Services (DOLS)

### **Error during sync about public key not matching the Address Book**

During synchronization, the user gets the error "Your public key does not match the one stored in the Address Book" in the synchronization status, which is then set to idle.

#### **Workaround**

Open the security section of the server document and disable the option "Compare Notes public keys against those stored in Directory."

Notes Client, Domino Designer, Domino Offline Services (DOLS)

### **If configuration document deleted, users must re-install**

If, for some reason, it is necessary to delete a subscription's Offline Subscription Configuration profile document, users who have the subscription installed must delete it and re-install the subscription with its new configuration document.

Notes Client, Domino Offline Services (DOLS)

### **Multi-user subscriptions are deleted by Notes "clean up"**

DOLS multi-user subscriptions are deleted when the user selects the Notes client "clean up" option in the following scenario. You install Lotus Notes with the Multi-User Option, and you install a DOLS-enabled database that has "Use Multi-User Data Directory" turned on in the subscription profile document. After you work in Notes, you are prompted "Want to clean up your personal files?" Do not select OK. If you do, the next attempt to sync with the Domino Sync Manager will fail because the DOLS multi-user data directory will be deleted when the Notes client shuts down.

Domino Administrator Client, Notes Client, Domino Offline Services (DOLS)

### **Users can't access encrypted subscription if ID overwritten**

If the user has installed an encrypted subscription, then for any reason their ID changes, they will not be able to open the encrypted subscription offline. This is because the offline subscription was encrypted using a key which matches the ID. When the ID changes, the key no longer matches the ID and the subscription won't open. The user must delete the encrypted subscription, re-install and re-encrypt it.

The "Overwrite existing user ID" setting should not be turned on in an enterprise that uses encrypted subscriptions. Users whose IDs are overwritten will not be able to open an offline subscription encrypted with a key from the previous ID. The only way to apply new IDs to encrypted subscriptions, is to delete the encrypted database and reinstall.

Notes Client, Domino Offline Services (DOLS)

### **Disabled subscriptions synchronize during upgrade**

If you disable all 5.0x subscriptions on a client system, then upgrade the server, when you upgrade one of the subscriptions on the client, all of the subscriptions synchronize even though they are not enabled.

Notes Client, Domino Server, Domino Offline Services (DOLS)

### **Need proper format to use wildcard for Optional files**

When using the \* (wildcard) in the Optional files field of the Offline Subscription Configuration document (for example, \*.nsf), you must add a \ before it, or you can get an error synchronizing offline.

#### **Workaround**

Use \\*nsf instead of just \*.nsf

Domino Administrator Client, Domino Offline Services (DOLS)

### **Password lost when Offline Security doc is changed after upgrade**

If your Offline Security Policy is set to autogen and you upgrade your server from 5.0x to 6.x, making a change to the choices in the Offline Security Policy will result in a loss of the password for the certifier.

For example, this problem would likely occur if a particular domain contains encrypted subscriptions and you want to turn on the new "Overwrite existing id" feature in the domain's security policy on the upgraded server.

#### **Workaround**

Go to the tab with the certifier id, reenter the password and save the security policy.

Notes Client, Domino Offline Services (DOLS)

### **Problems with DOLS SSO "Enter application Password" dialog**

With SSO enabled, a user can inadvertently assign an offline subscription a different dolsuser.id/notes.id password than the one that is used online for the same subscription. This will happen if the user enters and confirms a different password in the Offline "Enter application Password" when downloading the subscription. The user can not easily change this offline password.

Users may change the password in the Properties -> Security tab for the subscription to the online password. They will then be able to open the subscription offline using the online internet password, however when they try to sync the subscription, the incorrect synchronization password will be opened.

The user must enter the password that was entered in the "Enter application Password" dialog so that synchronization of the subscription can occur. (This is the behavior when Notes and Internet password are different)

Domino Web Access

### **Can't use alternate organization unit to login offline**

On Linux Mozilla, you cannot log in offline using the alternate organization unit as part of the login. For example, you cannot use AlternateName/AlternateOrgUnit/AlternateLanguage.

If the user is created without an alternate organization unit, such as AlternateName/AlternateLanguage, you can login offline using that ID.

Domino Administrator Client, Notes Client, Domino Offline Services (DOLS)

### **Cannot log into offline subscription with user short name**

User cannot log into an offline subscription with their short name when the Internet Access/ Internet authentication section of the subscription's security policy document is set to "Fewer name variations with higher security." This is working as expected. Offline internet security needs to be at the highest level. As result, short name authentication is not supported. All username aliases can be used instead.

Domino Administrator Client, Domino Server, Domino Offline Services (DOLS)

### **Subscription doesn't failover when outside a company's DNS**

DOLS does not support cluster failover during synchronization. However, you can set a backup server (or secondary TCPIP address) in the Offline Subscription Configuration Profile document, in the Network settings.

Domino Web Access, Domino Offline Services (DOLS)

### **Upgrading the iNotes Sync Manager to the Domino Sync Manager**

If you upgrade from the iNotes Sync Manger to the Domino Sync Manager, the desktop icons and menu items are not automatically removed so you will have two sets of icons and menu items for the Sync Manager. You must remove the iNotes Sync Manager icons and menu items manually.

Domino Administrator Client, Domino Server, Domino Offline Services (DOLS)

### **Using an alternate name to go offline**

To go offline with an alternate name, the name must be in the database ACL. You cannot go offline if the alternate name is in a group name, and only the group name is in the database ACL.

Domino Administrator Client, Domino Server, Domino Offline Services (DOLS)

### **With IIS, delay before install path dialog is displayed**

In an environment with an IIS front end server and a Domino with DOLS backend server, when the user installs a subscription there is a roughly 1.5 minute delay before the install dialog is displayed. This only occurs on first install, not on reinstall.

## **Domino Access for MS Outlook issues**

Domino Access for Outlook

### **Cannot edit MAPI profile**

You cannot edit your MAPI profile via the Control Panel (Control Panel - Mail). If you need to connect to a different server, you must create a new profile via the Start menu (Start - Programs - IBM Lotus Domino Access for Microsoft Outlook - Create New MAPI Profile).

Domino Access for Outlook

### **Domino Access for Microsoft Outlook issues**

The following is a list of differences between the Notes client and the Microsoft Outlook client, as well as known limitations and problems.

#### **Differences between Notes client and Microsoft Outlook client**

- Outlook's "Active Appointments" view does not accurately reflect the number of occurrences in a recurring meeting; however, the calendar accurately reflects the meetings.
- If a Notes invitee requests information in response to a meeting invitation, the Outlook chair will receive an email with their comments.
- Embedded messages can be read only by Outlook recipients. Use Forward or Reply to send existing message content to all users.
- Outlook does not support the creation of a new line in the Subject and Location fields on Calendar items. New lines entered in Notes in the Subject or Location field are converted to a semicolon (;) followed by a space in Outlook. Domino Access for Microsoft Outlook users can enter a semicolon and space so that a new line is added in Notes.

- Meeting updates to recurring meetings (not reschedules) are sent as individual items, if a change is made to the series a number of updates will be sent. It is recommended that changes are made to single instances to avoid multiple updates being sent.
- Domino does not support recurring daily meetings every weekday. Instead, use the option to select the days of the week.
- In Outlook, there is no new mail notification on start up, even when there are unread messages in the Inbox. New mail notification does not occur until a new message arrives.

### Address Book

Distribution lists created in Notes that contain other distribution lists (nested distribution lists) cannot be resolved within Outlook. Nested distribution lists created in Notes are resolved in the Domino server and can be used to send messages. Nested distribution lists created in the Outlook Contact folders are resolved within Outlook and can be used to deliver messages.

### Group To Dos/Tasks

- In Outlook, when forwarding a task that includes an attachment to another Outlook user, the attachment is not forwarded.

### Mail

#### *Sending e-mail*

- To ensure full directory access, all directories you want to select must reside in your domain. This release does not provide access to directories that require additional certificates to access, such as directories in different domains. If you cannot access a directory, talk to your administrator.
- It is recommended that complex documents be placed as attachments in e-mail. Microsoft Word is supported as the primary editor and is recommended where available.
- The preferred format for e-mail should be set to Rich Text format in Outlook for best results.
- Table formatting in some cases may be lost when sending from Outlook; use attachments for complex documents.
- Messages removed from Domino Access for Microsoft Outlook using "shift-delete" are not removed from the server replica. Users should simply delete messages and empty them from their "Deleted Items" folder to ensure proper synchronization of deletes from Domino Access for Microsoft Outlook.
- Mail notification of briefly changing the mouse cursor does not work in this release.

#### *Outlook features not supported*

- Most of Outlook's publishing and authoring components, such as footnotes, bookmarks, captions, cross references, page column formatting, edit change, and revision marks and tracking.
- In Outlook 2002, sending e-mail that has an assigned category is not supported by Domino;
- **Follow Up flags are not sent to e-mail recipients if mail is in html format.**
- Pictures other than clip art and images from files. Charts, diagrams, and embedded objects. Use attachments for these objects.
- In some cases, active URLs in Notes do not replicate as active links in Outlook.
- Once a message has been sent, Domino does not support the ability to expire or retract the message.
- The tracking option "Process receipts on arrival" is not supported in Domino.
- Outlook Rules that are applied to new items currently work only with the "Run Now" option, not as items are added to the Inbox.

#### *Other*

- There is currently no way to represent LotusScript buttons with Outlook.

## Calendar & Scheduling

### *Recurring meetings*

- Deleting recurring meetings, may result in some occurrences remaining on the Calendar.
- In Notes, you can create a monthly meeting that happens on the first Tuesday and third Thursday of each month. However Outlook does not support this as a repeat. These meetings will be distributed to multiple dates when replicated to Outlook.
- Recurring meetings that are subsequently changed to be "Private" cannot be accepted by the invitee. This can be resolved by changing the end time by 1 minute and then setting the "Private" option.
- If there is a mixture of acceptances and declines, the accept/decline status of invitees and rooms for specific instances of recurring meetings may be incorrect. The original accept/decline notices for the users received by the chair are correct.
- In some cases, invitees added to recurring meetings, where a number of updates are applied, may receive a "Request Out of Date" message when processing updates. It is recommended that the user verify that the changes have been applied to the existing calendar entry, as in some cases they may not be.

### *Autoprocessing*

- When using "Autoprocess," the Chair does not receive an acceptance notice from the invitee, but the meeting is added to the invitee's calendar.
- On the Autoprocess tab, if you enable automatic responses to meeting invitations from specified users, you have the option of choosing a name from the address book. However, you must remove the "@<domain>" portion of the address for this feature to work.

### *Outlook features not supported*

- The fields "Show Time As" and "Categories" are not sent to invitees.
- When you create a meeting invitation and save it as draft in Notes/Domino, the addresses are not available when viewed in Outlook.
- If you set an alarm for a specific meeting in Notes, the alarm is not set in Outlook for the same entry.
- If a meeting invitation created in Notes is delegated to an Outlook user, the Outlook user cannot take action on the meeting. However, the meeting may be added to the delegate's calendar.
- The Outlook XP feature creating "Group Schedules" does not operate correctly. It will not save the members of the group when initially created; subsequent edits will be saved and operate correctly.
- The "cc" field is not supported when sending a response to meeting requests, add any additional recipients to the "From" field.
- The Notes/Domino invitee cannot delegate meetings created with an Outlook chair in this release.
- Comments sent by a Notes/Domino Chair or Notes/Domino delegator are not supported when sent to Outlook Chair.

### *Other*

- Occasionally when accepting/declining multiple updates for a meeting, Outlook may report the error "The messaging Interface has reported an unknown error. If problem persists restart Outlook." Close the entry, and reopen it and accept/decline again. The error should not reappear.
- Addresses selected from the personal contacts and LDAP directories will not show the tracking status of attendees, when creating meeting invitations. They will correctly receive the meeting invitations, and updates and responses will be received.
- If a delegate tries to change the date in an appointment, reminder or all day event that was created by the owner of the mail file, the delegate will get a message that the entry has been changed by another user. The delegate will be prompted "Do you want to make a copy in the default folder for the item?" **Workaround:** Delegate should click yes, and then close the calendar entry. Reopen the calendar and make the necessary changes.

### Rich Text Formatting

Some of the rich text formatting (RTF) available in Outlook is not supported in Domino and will be lost or replaced by similar formatting supported in Domino.

#### General

The following general areas of Outlook formatting are not supported:

- Publishing and authoring features -- This includes manuscript revision marks and edit change tracking and annotations, footnotes, captions, page headers and footers, bookmarks, indexes and tables of contents, and cross references. It also includes creating columns and sections, and using "drop cap" paragraph formatting.
- Drawing and artwork features -- This includes creating new a drawing in the document, autosshapes, word-art, charts, and diagrams. **Note:** Clip art and images inserted from files are supported.
- Special text fields and form fields --This includes inserting auto text, text fields, and form fields. Examples are current date or time, author name, creation date, calculated fields (such as sales tax), text boxes, checkboxes, and dropdown fields.
- Frames and sections, document variables, master documents, and subdocuments.

#### Text and Paragraphs

The following text or paragraph formatting are not supported:

- Multi-level bullet and numbered lists -- only single-level lists are supported. **Note:** Supported list types are solid circle bullet, decimal numbering, lower- and uppercase alpha, and lower- and uppercase Roman numbering.
- Shading and borders for text, shading for paragraphs, positioned paragraphs, automatic hyphenation and paragraph styles.
- Combining shadow, emboss or engrave formatting with superscript or subscript -- if more than one is specified, superscript or subscript take precedence.
- Underline styles -- only the solid underlining style is supported; all other styles will be converted to solid.
- Special tab alignment -- only left aligned tabs with no leader are supported.

#### Tables

In the following cases, Domino will convert table formatting to a style that is supported:

- Tables created using "AutoFit to contents" tables and the "Fit text" to cell feature.
- Varying column widths between rows; varying the number of cells between rows.
- Varying text alignment and inner margins between cells -- all cells will have the same values. In a cell, the top and bottom margins will always be equal and the same is true for left and right margins.
- Varying cell border style and color between cells -- all cells will have the same cell border style and color, and the table's outer border will be of a single style and color.
- Shading -- only solid style of cell and table fill (shading) is supported -- Other styles (such as hash marks) are converted to solid.
- Table and cell border styles -- Domino supports eight styles; all others will be converted to the closest match.
- The merge cells feature.
- Number of columns and levels of nested tables are limited to 63 and 7, respectively.

### Domino Formatting not Supported in Outlook

If you use both Notes and Domino Access for Microsoft Outlook, some formatting created in Notes is not supported in Outlook. This formatting will either be lost in the conversion or will be replaced by something similar.

#### General

- Drop-shadow borders on tables and pictures
- Some list styles, such as circle, square and checkmark

### Tables

- Fit to Window style tables.
- Cell image and gradient fill (shading).
- Mixture of fixed and variable cell widths in a table.
- Tabbed, captioned, and animated tables. These will be converted to normal tables in Outlook.

For migration issues, see the release note "Exchange to Domino Migration Issues."

### Domino Access for Outlook

#### Exchange to Domino Migration issues

When data is migrated from an Exchange server to a Domino server, most of the data migrates successfully, however there are some exceptions:

- Recurring Meetings have data migration issues in the following instances:
  - If Outlook users decline a recurring meeting invitation from a user before the data is migrated, they will not be able to accept partial updates to the recurring meeting after the meeting data has been migrated.
  - Outlook users should verify recurring meeting schedules and invitee status after migration, in cases where some instances have been declined or rescheduled.
  - If successive instances of a recurring meeting are cancelled or rescheduled, the updates to the schedule data may not migrate correctly.
- Invitees should accept the initial invitation for recurring meetings before migration, otherwise subsequent updates may not be correct. In the case of single meetings, migration can easily handle subsequent updates, and only in very specific cases will there be a problem with updates to recurring meetings.
- When a migrated task includes a .JPG attachment, there may be problems opening the file.
- When a Notes user replies with history to a migrated memo that includes an attachment, it may appear that there are two attachments: the original attachment and an image of a file document.
- If migrated Exchange users have similar names (such as John Yankowski and John Yankowsky), the mail file could be overwritten during Notes registration. When registering Notes users, the Domino Administrator truncates long names to eight letters (the first initial of the first name and the first seven letters of the last name).

**Workaround:** During registration, make sure you manually extend the name or you will be prompted to overwrite the first instance of the truncated name.

See also the release note "Domino Access for Microsoft Outlook" for a full list of problems and limitations.

Domino Access for Outlook

**Troubleshooting the Exchange to Domino migration**

There are a few situations you may encounter during the migration process that require some simple troubleshooting. Here are a few tips to help you perform a successful migration.

Problem	Explanation and Workaround
Microsoft Exchange isn't available as a Foreign Directory Source in the People and Groups Migration dialog	Microsoft Exchange must be configured as a Foreign Directory Source during the installation of the Administrator Client. <b>Workaround:</b> If Microsoft Exchange isn't available as an option, you must reinstall the Domino Administrator Client and make sure Microsoft Exchange is configured as a Foreign Directory Source during the installation process.
You need to migrate a user more than once	The Domino Migration Tool is designed as a "run once" utility, which registers users and creates their associated mail files on the Domino server. You can migrate a user more than once, but remember that if you migrate to the same Domino mail file, the existing data is not replaced, it is just appended. <b>Workaround:</b> If you need to "re-migrate" a user, delete the existing Domino mail file from the Domino server, and then perform the migration for that user again. You will be informed that the user is already registered on the Domino server, and prompted to update the existing user. Do this, and complete the migration. A new mail file will be created for the migrated user on the Domino server.
The address conversion for a user's mail file fails	While running the address conversion utility, you may see the message, "Address conversion failed for this user." <b>Workaround:</b> It is crucial that the server name and address book be up to date before running the address conversion. Update the name and address book following the instructions previously outlined, then perform the address conversion again.
After migration, a user's mail file displays addresses (such as in the 'Chair' item or 'From' item) in Exchange format	If addresses are displaying in Exchange format, you may have forgotten to perform the address conversion on this mail file. <b>Workaround:</b> To be on the safe side, perform the address conversion (following the steps previously outlined) on all the migrated mail files on the Domino server. Also, it is possible that you have not yet migrated the user whose address is displaying in Exchange format. Once that user has been registered on the Domino server and the associated mail file migrated, run the address conversion utility again.
The Domino Migration Tool fails during the process of migrating users	If the migration process fails, which can happen if the server connection is lost, it is best to start the process again, beginning with the user in transit during migration. <b>Workaround:</b> If the migration process fails while migrating a user, that user and any others in the Registration Queue will be saved in preparation for registration and migration. Because the user in transit when the failure occurred may be partially migrated, it is best to delete that user's mail file from the server once the server connection is restored. Then resume the migration process by selecting "Register All" in the Register Person dialog.

**Domino Domain Monitoring issues**

Domino Administrator Client, Notes Client

**'Open Monitoring...' opens new instance each time**

When you click the **Open Monitoring...** outline entry in the Monitoring Configuration database (events4.nsf), the Domino Domain Monitor database (ddm.nsf) will be opened on the corresponding server. If you click this outline entry multiple times, a new instance of the Domino Domain Monitor database will be opened for each time the outline entry is clicked.

If this occurs, close all instances of the Domino Domain Monitor database and the Monitoring Configuration database. Re-open one instance of the database and the problem should no longer occur.

Domino Administrator Client, Notes Client

### **'View Unread' button presents mixed results in Collapsed views**

The Domino Domain Monitor database (ddm.nsf) has a **View Unread** button in all of the views and tabs.

The purpose of this button is to help manage large volumes of data that might be reported in this database. Using this button will allow users to display only documents that are marked unread. This will allow Administrators to view new documents that require attention and temporarily remove documents that have already been reviewed (read). The button serves as a 'toggle' - when viewing the Unread documents, the button now reads 'View All'. Click the button and it will now display all documents for this view.

There are some minor problems when using this button in a view that is set to 'Collapse All'. After clicking the 'View Unread' button in a view that is fully collapsed, the category counts will continue to reflect the *total* docs in that category, not the *unread* docs in that category. In addition, if you click the category, the category will disappear, leaving only the unread documents for that category. This occurs for each category in the view. If you click each category, eventually, you will have a view of unread, uncategorized documents.

To avoid this, simply make sure the view is not set to 'Collapse All' before using the 'View Unread' button. The view should display correctly for this scenario.

Domino Administrator Client, Notes Client

### **DDM 'Restore Default Probes' action**

The DDM 'Restore Default Probes' action in the Monitoring Configuration database fails with this error: **The specified agent does not exist.** There is no workaround for this problem.

Domino Administrator Client, Notes Client

### **Domino Domain Monitor best viewed w/bookmarks unpinned**

The Domino Domain Monitor database (ddm.nsf) is best viewed with bookmarks unpinned and/or a screen resolution of 1024 by 768 pixels, or more. If bookmarks are pinned or the screen resolution is too large, the tabs in this database may overlap each other, making it difficult to navigate. Simply unpin the bookmarks pane or adjust the screen resolution and the database will have enough room to fully display.

Domino Administrator Client, Notes Client

### **IBM Lotus Instant Messaging in Domino Domain Monitor**

Double clicking on an Administrator listed in the IBM Lotus Instant Messaging pane ('Show/Hide Administrators') will *not* initiate an Instant Messaging dialog with the Administrator. Simply right-click on the desired Administrator's name and choose "Chat with . . .".

Domino Administrator Client, Domino Server

### **Log Filter configuration documents**

Introduced in Domino 6, Log Filters can be defined in events4.nsf; these filters specify which events get displayed on the server console or added to the server log file. Events are filtered according to severity level and type. Please see documents in the view named 'Filters / Log Filters' for more details. The severity and type of any event is defined in the events4.nsf message documents. See documents in the view named 'Advanced / Event Messages by Task' for more details.

In Domino 7, some of the message document Type values have been changed to more accurately describe events defined by these documents. For example, some messages that had been defined with a type of 'Database' have been changed to have a type of 'Security'. If you have defined Log Filters using Type, you may want to review their values.

Also in Domino 7, some of the message document Severity values have been changed to more accurately represent events defined by these documents. If you have defined Log Filters using Severity, you may want to review their values as well.

Domino Server

**Orphaned documents left in DDM.nsf**

In certain cases, documents have been found in a DDM.nsf that one wouldn't expect to be there based on the selective replication formula. One example of this can occur after the formula is changed (due to a hierarchy change.) When the last replication occurs with the former child server, any documents no longer contained on that server (let's say they were deleted) won't be removed in the current server. This means that they are stuck there until removed by an admin.

**Workaround**

Use Control-Shift View->Go To to go to the hidden the (\$vwAllEvents). Look at the first column which is OriginatingServer. Select all of the documents for those servers not in the selective replication formula and then delete them.

Domino Server

**Removing multiple copies of TCP and Mail probe documents**

When the event process detects that there is no events4.nsf, it creates it. It then sets up certain default monitors by creating documents in that database. One of those monitors is the probe documents for both TCP and Mail. Normally, this is okay, however, this can lead to the following situation:

Server A is the admin (first) server in the domain. There is also a Server B. Server B's events4.nsf is deleted. So it does the above steps. Events4.nsf then replicates with Server A and adds the new TCP and Mail probe document to Server A's events4.nsf which eventually replicates the old probe docs back as well. So now there are two copies of the TCP and Mail probe documents. Every time events4.nsf on Server B is blown away, this will happen and over time will create more documents.

The code was changed to only create those default monitors on the first server. So deleting events4.nsf on any other server won't result in new documents. However, since this problem may have occurred on your servers in the past action should be taken to removing these unnecessary documents. To do this:

1. Open events4.nsf on your server.
2. Navigate to Event Generators -> TCP Server
3. In the view, find those documents that are categorized as All Servers. If you have multiple ones, remove all but one of them.
4. Navigate to the view Event Generators -> Mail Routing and do the same.

Domino Server

**Router "complains" about messages that contain no recipients**

In the Beta releases, it was possible to create a DDM Mail probe configuration document without specifying a recipient. The template has been fixed so that is no longer possible. However, if old configuration documents are still present, they will cause the router to issue the following message:

```
Router: Message 00600F1C contains no recipients 0F85256EAB:00600F1C
```

To correct the issue, simply delete the probe (since it is based on an old form), and recreate it.

Domino Administrator Client, Notes Client

**Security Configuration probe cannot be enabled from view level**

The Security Configuration probe document cannot be enabled from the view level, using the 'Enable Probes' view action. When trying to do so, you may receive the error: **1 probe document could not be enabled due to one or more missing field values. Please edit it individually.** To work around this, simply open the Security Configuration probe document, review all fields to verify all fields are populated with valid values, and click 'Enable Probe' from within the document. This will enable the probe.

## Domino Web Access issues

Domino Administrator Client, Domino Web Access

### Add Sender to Contacts not working correctly

Users registered with a first, middle, and last name using the default Internet Address setting of "FirstName LastName", and "None" as the separator, do not get added to Contacts correctly. Instead of displaying in the First name, Middle, and Last name fields, the first and last names display in the "Last name" field of the Contacts entry, and the middle name does not display.

Domino Web Access

### Attachments larger than 10 MB require change to Server doc

Using file attachments larger than 10 MB will result in a "server not found" error.

#### Workaround

The following settings in the Server document default to 10000 KB. Increase these settings to accommodate the use of file attachments larger than 10 MB:

- On the Internet Protocols - HTTP tab : "Maximum Size of Request"
- On the Internet Protocols - Domino Web Engine tab: "Maximum POST data"

Domino Web Access

### Cannot insert multiple links in a table in a mail message

In the current release, if you are using Microsoft Internet Explorer as your browser, you cannot insert more than one link in a table that you have created in a mail message.

You can insert the link only in the last cell of the table. For example, if a table has 6 cells, you can insert the link only in the sixth cell.

Domino Web Access

### Cannot install a subscription after cancelling

If you begin installing a subscription, and then cancel, you must manually remove the subscription from the Lotus iNotes program directory. Then, right click and select "Go Offline" in order to re-install the subscription.

Domino Web Access

### Cannot install Offline subscription from full DWA portlet

You cannot install an Offline subscription from the full Domino Web Access portlet unless the "Functional Area" of the portlet is set to "All." Open the URL for the mail file directly (e.g., <http://myserver/mymailfile.nsf>) and then select "Go Offline."

Domino Web Access

### Cannot search in NamePicker hierarchy views in Domino Web Access

In the Select Addresses dialog box, you can search only in the List by name view.

Domino Web Access

### Cannot send a meeting invitation to a group in CDC from offline

In Domino Web Access 7, when working offline, you cannot send a meeting invitation to a group in a CDC (condensed directory catalog). You can, however, use the group to send mail. Also, this is not a problem if you are using the inotes6.ntf mail template.

#### Workaround:

Don't put the Group into the Dircat. Enter the Group name in the "To" field and then click send. Choose "Use Name Anyway" when prompted that the name is not found. Alternatively, you can create Groups locally in your contacts.

Domino Administrator Client, Domino Web Access

### Cannot use Web Admin to set default Welcome Page

Web Administrators cannot use the Configuration Settings document (Domino Web Access) tab to set the default Welcome Page. Domino Administrators can set the default Welcome Page and, if allowed, Domino Web Access users can set the default using the Edit Layout button on the Welcome Page.

Domino Web Access

### Changing your internet password in Domino Web Access

When you change your internet password, allow time for the server's AdminP process to run before the change takes effect. You may have to wait anywhere from 5 minutes to several hours depending on how often the AdminP process is set to run on the server.

When your Internet password is different from your Notes password:

- You may be prompted for a Synchronization Password the first time DOLS attempts to synchronize the offline mail file. When such a prompt occurs, you must set the Synchronization Password to your Notes password. DOLS will automatically save this password in your subscription synchronization preferences. When logging into the database offline in a browser, use the same internet password you would use to log into the browser online.
- If your offline mail file is encrypted locally, then a HTTP 500 Server internal error may occur when the offline mail file is opened, unless you have correctly set the Synchronization Password for the subscription to the Notes password. In the DOLS Sync Manager, select the mail file subscription entry, then select the Properties - Security dialog to set the Synchronization Password.

Domino Web Access, Domino Offline Services (DOLS)

### Close the browser before uninstalling Domino Sync Manager

You must close the browser before uninstalling the Domino Sync Manager. If you do not close the browser, it does not uninstall completely, and may cause errors the next time you try to install a subscription, or go offline.

Domino Web Access

### Domino Web Access 7.0 limitations on Linux Mozilla

Following are the limitations using Domino Web Access 7.0 on Linux Mozilla:

#### General

- The first time you access Domino Web Access, you will get the following prompt. Check "Remember this decision" and click the OK button so that Domino Web Access can work properly.

A script from "International Business Machines Corporation" has requested enhanced privileges. You should grant these privileges only if you are comfortable downloading and executing a program from this source. Do you wish to allow these privileges?

#### Local Archiving

Local archiving is not supported.

#### Preferences

You cannot set your default mail client in the Other Preferences.

#### Alarm

Even if you snooze an alarm, the alarm window will no longer pop up after you switch to another view (e.g., from Mail to Calendar).

#### Proxy Support

Proxy support is not available in Linux Mozilla for this release.

### Chat and Instant Messaging Integration

Online meetings are not supported with Mozilla, therefore if a Domino Web Access user is engaged in a chat session and clicks on "Add Tools" none of the selectable options, such as screen sharing, whiteboard, audio or video, will work.

### Domino Web Access Server Setup

You must have Sametime 3.1 or later to enable Chat and Instant Messaging (Sametime) integration in Mozilla. In addition, you must enable Instant Messaging in Preferences in order to use Chat and Instant Messaging; previous versions of Chat are not supported in Mozilla.

If your Sametime server is not on the same machine as your Domino Web Access server, you must copy Sametime related files from the Sametime server to your Domino Web Access server. To do so, follow the steps below.

1. Copy the data\domino\html\sametime\stlinks directory from the Sametime server to the same location on your Domino Web Access server. Create the Sametime directory if one does not exist.
2. Replace the data\domino\html\sametime\stlinks\stlinks.jar file on the Domino Web Access server with a signed version of stlinks.jar file. In Sametime 3.1, this file is in the Toolkit\stlinksignedapplet directory on the Sametime 3.1 installation CD 2; for Sametime 6.5.1, this file is in the <Sametime server directory>\Data\domino\html\sametime\stlinks\signed.

**Note:** For more information on setting up Domino Web Access for Sametime, see the Domino Administration help.

### Mozilla Browser Setup

You must install the Java Plug-in 1.4.1 before using Instant Messaging (**Note: Do not use JRE 1.4.1\_05**). First install the Java Plug-in on the Linux client and then create a symbolic link under the [Mozilla Installation Directory]/plugins to point to the plug-in. Use the following procedure:

```
cd /
ln -s /usr/java/j2re[VERSION]/plugin/i386/nsb10/libjavaplugin_oji.so [Mozilla
Installation Directory]/plugins/libjavaplugin_oji.so
```

### Restart Mozilla

Java Plug-in is a part of the Java Runtime Environment and you can download it from <http://java.sun.com>.

**Note:** To check if Java Plug-in is correctly installed, select [Help]-[About Plug-ins] to see "Java(TM) Plug-in 1.4.1\_xx" in the plug-in list (where xx is revision number of Java Plug-in).

### Offline

- Offline is supported on Mozilla 1.4.1 and 1.7 with SuSE 8.0/United Linux 1.0 SP3. Be sure to install the Red Hat package named **C/C++ Compiler and Tools**.
- Only one offline Domino Web Access subscription is supported per Linux client. If you want to install a new subscription on a Linux client that already has a Domino Web Access subscription installed offline, you must uninstall the existing subscription first.
- Use the Go Online drop down menu to install, synchronize, schedule synchronization and reinstall your subscription on the Linux client. The Domino Sync Manager is not available on Linux Mozilla. Instead, use DWA Sync to synchronize your mail file on the Linux client.
- There must be a Mozilla script file in the usr/bin directory to be able to launch Offline from the desktop Offline icon. The Mozilla script file is usually a part of the Mozilla installation and is located where Mozilla is installed. Users may have to copy their script file to the usr/bin directory then edit it so it points to the directory where Mozilla is installed.
- The Offline mail file is always installed to the user's \$HOME directory.
- If you have a problem installing, synchronizing, or going offline, and receive a message that one of these services is already running, you may need to reboot your system. After you reboot your system, remove files named httploaded, synching, or downloading in the /usr/tmp directory. Then, retry the operation that was failing.

### Upgrading DOLS

You must remove your current version of DOLS before you upgrade. For information on uninstalling Domino Off-Line Services for Mozilla (on Linux clients), see the Domino Web Access help topic "Uninstall Domino Web Access from Linux Mozilla."

Domino Web Access

### **Domino Web Access 7.0 offline issues**

Following are the issues using Domino Web Access 7 offline:

#### **Installing on Novell SuSE Linux**

In order to install a Domino Web Access mail file offline on Novell SuSE Linux, the software package for "C/C++ compiler and tools" must be installed before the user attempts to go offline.

#### **Installing on Firefox on Linux**

The Firefox browser does not support signed XPI files currently so the install package appears as unsigned (invalid). However you will be able to download and install successfully.

#### **Login using full name**

When logging in offline, you must use your full name, such as John Smith, instead of your short name, such as jsmith.

Domino Administrator Client, Domino Web Access

### **Domino Web Access secure mail issues**

Following are the issues using secure mail in Domino Web Access:

#### **Signed Mail**

When a signed message is sent from an account that has an Internet certificate included in the imported Notes ID to a recipient that does not have an imported Notes ID, the signed icon appears broken to the recipient with the mouseover message: "Could not open the ID file."

#### **Notes Signed Mail Sent via SMTP**

Notes signed mail sent via SMTP will have the signature removed before it is delivered to the recipient.

#### **Notes Encrypted Mail Sent via SMTP**


Notes encrypted mail sent via SMTP may have problems such as loss of attachments, or mail in which the body of the message cannot be read by the recipient.

#### **Notes Signed and S/MIME Encrypted mail**

If you are offline, and have a Notes certificate (no Internet certificate) and you try to send an S/MIME signed and encrypted message to a recipient with only an Internet Certificate, you will get a 'No Delivery' Report message.

Workaround: Both the sender and the recipient must have the same type of certificates to send signed **and** encrypted messages.

#### **Using name resolution when encrypting a message**

If you want to send an encrypted message, you must check "encrypt" before you click the check name button  or press F9 for name resolution. If you use F9 or the check name button before you enable encryption, you will get an encryption failure.

#### **Requiring SSL to use Secure Mail**

When you receive the message box informing you that you are switching to SSL, do not click X to close the box. You must click OK and allow the switch to SSL to occur.

**Important:** Within the scope of a directory search, all group names must be unique. Make sure that there are no like named groups in different domains.

Domino Web Access

### **DOMWS Convert AddIn task loads by default**

If the http task is enabled the DOMWS Convert AddIn task is also started automatically. When this task loads you will see two messages on the console:

**DOMWS Convert AddIn Initializing**  
**DOMWS Convert AddIn Initialization Complete**

This task is necessary only if using the Common PIM portlets that are part of WebSphere Portal 5.1X. To disable this task, set the HTTPNoDomWSAppSpace=1 in the NOTES.INI file, and disable XML Services using the steps below:

1. From the Domino Administrator client, open the server document for the Domino application server in edit mode.
2. Click the Internet Protocols - Domino web Engine tab.
3. Uncheck the XML Services box.
4. Save and the changes.

The next time you restart the server, the DOMWS task will not start.

Domino Web Access

### **Firefox does not support awareness in DWA on Windows**

Using Firefox on Windows, the browser hangs and crashes with Sametime awareness enabled in Domino Web Access.

#### **Workaround**

By default Sametime awareness will be turned off for Windows based Firefox clients.

Domino Administrator Client, Domino Web Access

### **Format preference for incoming mail**

For Domino Web Access users, in the Person document in the Domino Directory, set the "Format preference for incoming mail" field to "Keep in senders' format."

Domino Web Access

### **Lotus Instant Messaging Limited Use version requires variable**

If you installed the Lotus Instant Messaging Limited Use version of Sametime, you need to add the variable VPS\_ALLOWED\_LOGIN\_TYPES=1003,100A to the Sametime.INI file on the Sametime server data directory for Domino Web Access users.

Domino Web Access

### **Meeting update notices do not get sent**

When you update both the subject matter and invitees for a scheduled meeting, the meeting update notice is not sent.

#### **Workaround**

Create separate updates for the meeting. For example, update the invitees and send that update. Then update the meeting subject in a separate update.

Domino Web Access

### **New message may be discarded without prompting**

In a new message, if you click 'To', select a name from your contacts, and then click the "X" in the corner of the window instead of choosing 'Send' or 'Send and File', you will not be prompted that the message will be discarded.

#### **Workaround**

Type the full address of the person in the 'To' field, or type in the beginning letters and click the green check to choose from the Name directory.

Domino Web Access

### **Problem opening attachments with Chinese file name**

On Windows XP using Internet Explorer, if you open a message in Edit mode, you cannot open an attachment that has a Chinese file name.

#### **Workaround**

To open attachments that have a Chinese file name, double-click the attachment in read mode.

Domino Web Access, Domino Offline Services (DOLS)

### **Problem opening offline on Linux Mozilla**

If you are using Firefox or Mozilla browser on Linux, and going offline using the desktop icon, you must copy the run-mozilla.sh script file from the directory in which Firefox or Mozilla is installed to /usr/bin, and then rename the file to "mozilla." Edit this file to point to the Firefox or Mozilla directory path.

Domino Web Access

### **Rich Text Editor issues in Domino Web Access**

Following are the known issues with Rich Text Editor using Domino Web Access:

#### **Lists**

When you create a list (unordered or number list) and use the heading format to increase the type size, the following problems occur when you undo the heading size:

- If you select a list in a single cell and then undo the heading, the list element disappears also.
- If you have lists selected in more than one line, you cannot undo the heading element at all.

#### **Graphics**

If you insert a graphic into an entry, and then try to undo the insertion, undo does not work.

#### **Tables**

In IE 6.0, you cannot select the text in multiple cells and delete it using the Delete key. You must select the contents of each cell and press Delete.

Domino Web Access

### **Server archiving in Portal UI requires Notes.INI variable**

When using the Portal UI, you must set the iNotes\_WA\_PortalOffline=1 variable in order to use server archiving in Domino Web Access. If this variable is not set, the Archives button does not display in a portal, even if the user has chosen server archiving in User Preferences.

Domino Administrator Client, Domino Web Access

### **Setting quick links in Domino Web Access Welcome page**

Currently, Domino Administrators cannot set quick links for the Domino Web Access Welcome page in the Configuration Settings document (Domino Web Access tab).

Domino Web Access users can set quick links for the Welcome Page using the Edit Layout feature.

Domino Web Access

**TAM WebSEAL 5.1 on Mozilla and Firefox displays error**

When accessing IBM Tivoli Access Manager WebSEAL 5.1 on a Mozilla or Firefox based browser, the browser displays a 404 error:

```
The Access Manager WebSEAL server can not find the resource you have
requested.
```

This error means that the Access Manager WebSEAL cannot find any resource matching the requested URL:/favicon.ico

**Workaround**

Create an unauth ACL and attach it to favicon.ico using the pdadmin utility on the TAM server as follows:

```
pdadmin> acl create unauth
pdadmin> acl modify unauth set group iv-admin TcmdbsvaBRrx1
pdadmin> acl modify unauth set group webseal-servers Tgmdbsrx1
pdadmin> acl modify unauth set user sec_master TcmdbsvaBRrx1
pdadmin> acl modify unauth set Any-other Trx
pdadmin> acl modify unauth set Unauthenticated Tr
pdadmin> acl attach /WebSEAL/TAMhostname-default/favicon.ico unauth
```

Domino Web Access

**Unable to load Inbox in Domino Web Access**

In Internet Explorer, users who are not using SSL connections to access their Domino Web Access mail database receive an "Error encountered retrieving data" message when trying to access their Inbox. An updated urlmon.dll fixes this problem. Customers can call Microsoft support free of charge to receive the fix (<http://support.microsoft.com/?kbid=837251>) prior to its inclusion within a cumulative update for IE. It will be queued up for inclusions within the next cumulative update for IE (anticipated to be May 2004).

Other workarounds include:

- In Internet Explorer, go to Tools - Internet Options - Advanced - Security, make sure the option "Do not save encrypted pages to disk" is unchecked.
- Disable GZIP compression.

Domino Web Access

**Use LDAP Mail attribute for Domino Web Access Instant Messaging**

The Mail attribute is a required entry when using LDAP for Instant Messaging in Domino Web Access. When using Instant Messaging in Domino Web Access to resolve names that exist in an LDAP directory server, the mail attribute for the LDAP directory entry must include a valid e-mail address value. For example, the directory entry for John Brown could look something like this:

```
dn: cn=John Brown, o=Yourorg
givenname: John
sn: Brown
mail: jbrown@yourorg.com
```

If an entry is found in the LDAP directory that does NOT contain a value for the mail attribute, the value entered will be removed. This affects groups more than user entries, because the LDAP object classes "groupOfNames" and "groupOfUniquenames" do not include the mail attribute. This could, however, affect entries of type "Person" and "organizationalPerson" since these object classes do not support the mail attribute either. Most LDAP directories do support the "inetOrgPerson" object class, and mail is an optional value of this object class. For those using Domino as an LDAP directory server, the "dominoPerson" object class inherits from the "inetOrgPerson" object class, where mail is supported.

For more information on creating and editing the Offline subscription Configuration Profile document, see the Domino Administration help topic "Configuring the DOLS subscription."

## Installation issues

Notes Client

### Continue past "File does not exist" error for Notes client

When installing the Notes Client, if you receive the error "File does not exist", click OK and continue. This may happen, for example, with the "Create Cross Certificate" dialog during the installation.

Domino Server

### Domino 7 cannot install Partition Server over Single Server

On Windows platforms, the Domino 7 installer program makes a distinction between a Single Server Installation and a Partition Server Installation.

A Single Server installation will consist of a single Program directory, and a single Data directory. The Notes.INI file, which contains configuration information for the server, will be stored in the Program directory. This has been maintained in Domino 7 in order to support previous versions of the Notes/Domino server.

A Partition Server installation will consist of a single Program directory, and multiple Data directories. Because each server has a different configuration, each server must have its own Notes.INI file. Because of this, the Notes.INI file will be stored in the Data directory of each partition.

The Domino 7 installer does not support upgrading or reinstalling a Partition server over an existing Single server. This is because the Notes.INI file cannot safely be relocated without making significant changes to its contents.

If a user has an existing Single server installation, and needs to replace this with a Partition server installation, then the Single server should be Uninstalled, using the Add/Remove programs utility in Windows. Then the user must copy the Notes.INI from the Program Directory to the Single servers Data directory. The Data files from the Single server will be left behind in the original Data directory. Next, the user may install a new Partition server, using the same location as the original Program Directory. The original Data directory can be selected as one of the new Partitions, as well as other Data directories that will be created by the installer. After the Partition server installation is complete, the original server will be one of the new Partitions installed, and should function normally.

Domino for i5/OS

### Domino installation may fail when WRKDOMSVR cmd active on i5/OS

Installing Domino 7 for i5/OS may fail if a WRKDOMSVR command is being run in another session. If this occurs, an error message in the job log indicates that the QGNNINDS object cannot be allocated. Make sure no other sessions are running the WRKDOMSVR command, and retry the installation.

Domino for i5/OS

### Domino installation may fail with signature violation on i5/OS

#### Domino and OS/400 signatures

When installing Domino 7 for iSeries, the installation may fail with the following error message (check the job log for the job that issued the RSTLICPGM command):

```
Object has a signature that is no longer valid.
```

This is likely the result of installing Domino to a system that has the more stringent levels of object signature validation enabled for restore operations.

The OS/400 policy to be used for object signature verification during a restore operation (for example, product installation) is controlled by the QVFYOBJRST system value, which has a default value of 3.

When installing Domino for iSeries, the system value QVFYOBJRST must be set to a value of 3 or lower prior to installing Domino.

After installation of Domino for iSeries has completed, the system value may be changed back to a more restrictive setting.

An example of changing the system value QVFYOBJRST is provided below:

```
CHGSYSVAL SYSVAL(QVFYOBJRST) VALUE('1')
```

Domino Administrator Client, Domino Server

### Installing Domino 7 on UNIX from a CD-ROM

When installing Domino 7 on any UNIX platform, be sure to follow this sequence of steps to begin the installation process:

1. Create the CD-ROM directory, for example, /cdrom
2. Use the cd command to change to that directory.
3. Mount the CD-ROM drive, for example, mount /dev/dc0 /cdrom

Domino Administrator Client, Notes Client, Domino Designer

### Instant Messaging Proxy Password doesn't flow through

If the user happens to select 'Use Proxy' as the Instant Messaging Protocol during a new Client Setup as well as upon launching the Notes Client after upgrading to the latest release, and enters a Proxy Password in the dialog, the Proxy Password will not flow through to the user's location documents. To correct this, simply edit the location documents; go to the Instant Messaging tab, and click the 'Set Proxy Password' button. A dialog will display, allowing the user to enter their IM Proxy password.

Domino Server

### Invalid directory path value in script.dat issue

When using silent install on UNIX platforms, the installer cannot check the special characters (e.g., <>) in the "Program\_directory" parameter of the script.dat file. However, the installation will succeed without any error message, even if special characters are used in the "Program\_directory" parameter.

Notes Client, Domino Server

### Notes/Domino 7 cannot be installed into a non-ASCII name folder

Notes/Domino 7 cannot be installed into a directory/folder with a non-ASCII name; please use an ASCII name for the directory/folder name to install.

Domino Administrator Client, Notes Client, Domino Designer

### Scriptable Client Setup and Instant Messaging configuration

Here are some known issues to be aware of when using the Scriptable Client Setup feature to configure Instant Messaging:

- If the IM.Protocol variable is set to 3 ('Use proxy'), the **IM.ProxyType** variable is required. If this variable is left out of the script, the IM Setup dialog is supposed to display during Client Setup so that the user can enter the missing value. At this time, the dialog does *not* display. As a result, the user may experience connection problems because the Proxy Type defaults to SOCKS4. To correct this, either be sure to include this variable in the Script or ask the user to edit their location documents and update the Instant Messaging tab to reflect the correct Proxy Type.
- The **IM.ServerNameResolve** variable seems to be ignored by Scriptable Setup. The 'Resolve server name locally' field is always enabled in the IM Setup - IM Proxy dialog whether the variable is included in the Script or not. Despite the field being enabled in the dialog during Client Setup, it is always disabled in the location doc, except as noted below.
- The **IM.ServerNameResolve** variable acts as if it is required when the IM.ProxyType variable is set to 1 ('SOCKS5'). Specifically, if a Script sets IM.ProxyType to 1 and *leaves out* the IM.ServerNameResolve variable (this should be ok since the variable is *optional*), the IM Setup dialog will display during Client Setup so that the user can enter the missing value. In addition, the user will find the checkbox for this field is *enabled* even though the variable was not included in the script. This checkbox will remain enabled upon completion of the Client Setup in the location document.

Domino Administrator Client, Notes Client, Domino Designer

### Smart Upgrade doesn't support Full Kit install for multi-users

Smart Upgrade does not support the "Full Notes Client kit" install option for a multi-user install. The Domino Administrator must upgrade multi-user installs using the "Notes Client only kit" install option.

Domino Administrator Client, Notes Client, Domino Designer

### Threshold chgs in Replication Settings apply to current location

When setting up a Notes Client and choosing "Replication settings for sending and receiving mail" from the *Additional Services* dialog, the threshold you originally enter for sending outgoing e-mail messages before you choose your replication schedule will hold for all location documents. If you change the threshold value after you enter your replication schedule, that new threshold value will only display in your current location document. If you'd like that new threshold value to be in another location document, simply edit the location document and make the changes.

Domino Server

### Total size in summary panel issue

When installing partitioned servers on Windows platforms, the total size in the Summary panel does not give the correct, required disk sizes.

Domino Server

### Upgrade warning message (dominoSelfRegistering) issue

When upgrading the server on Windows platforms, the warning message ". . . during the registration of files (dominoSelfRegistering). . ." is displayed in the final upgrade window. This warning is reproduced periodically, but the server functions work successfully.

Domino Administrator Client, Domino Server

### Upgrading to Domino 7 changes the services startup type

Upgrading from Domino 6.X or Domino 7.0 beta causes the services startup type to change if the startup type is set to automatic. The services startup type reverts to manual after the upgrade. The services startup type is set in the Windows service dialog box.

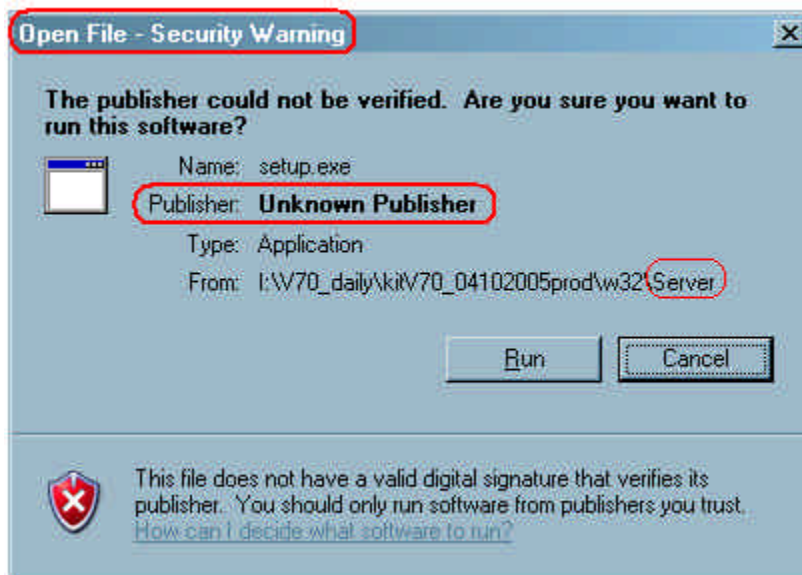
Domino Server

### Windows server install displays security warning

On Windows machines, when you double-click 'setup.exe' to begin the install procedure for the Domino server, you will receive the following Security warning:

#### Open File - Security Warning

The publisher could not be verified. Are you sure you want to run this software?



Notice that 'Publisher' is listed as "Unknown Publisher", and the bottom of the dialog indicates: "This file does not have a valid digital signature. . .".

**Workaround**

Simply choose 'Run' to continue the installation.

**Mail issues**

Notes Client

**'Preferences' menu option won't be available if using Notes 6**

If you are using Notes 6.x to access a Notes 7 mail file on a Domino 7 server, the Tools -> Preferences menu option will not be available.

**Workaround**

Upgrade your Notes Client to Notes 7, then the Tools\Preferences menu option will be available.

Notes Client

**Ambiguous name dialog appears when adding followup to memo**

When opening a mail item and putting it in Edit mode, then selecting Follow Up options, an ambiguous name dialog or "group name not found" dialog may be displayed, if the person name or group name does not exist in the public or private address book.

Notes Client

**Automatic folder upgrade does not upgrade all folder styles**

Automatic folder upgrade can only upgrade those folders that are supported for manual upgrade. These are:

- Inbox
- Trash
- Rules
- Alarms
- Calendars
- JunkMail
- All Documents

in the Upgrade Folder dialog box.

Domino Server

**Disclaimer text is dropped if angle brackets are included**

When disclaimer text is enclosed in one pair of angle brackets, a few carriage returns (and no disclaimer text) are added to email. When disclaimer text is enclosed in multiple pairs of angle brackets, all text and one pair of brackets are dropped.

Domino Server

**Linux - Internet client background color is "Black"**

Sometimes, messages accessed with an IMAP internet client, such as Mozilla 1.6, Eudora 6, Outlook 2003, or OE6, may display with the message background in black.

Notes Client

### **Notes crash when open IMAP proxy db after disconnect RAS dialup**

The Notes Client crashes when opening an IMAP proxy database, after disconnecting a RAS dialup connection.

Notes Client

### **Notes crashes when replicating IMAP proxy db with options**

Notes crashes when IMAP users run replication with "Replication with Options" checked.

#### **Workaround**

Notes works properly when you run replication with "Replicate via background Replicator" checked, instead.

Notes Client

### **Preferences need to be resaved after name change**

If a user turns on Message Marking to show when they are in the To and/or CC field of an email, and then has their name changed, Tools/Preferences will need to be changed in order for the Message Marking to show again.

Notes Client

### **Rule folder action for QuickRule, moved rule, not refreshed**

When creating a QuickRule, or when moving a rule in the Rule folder, the rules in the Rule folder may not get refreshed properly, which may cause an issue trying to Disable/Enable, delete, or execute rules.

#### **Workaround**

Create a new rule to refresh the calendar profile, then delete it.

Domino Server

### **Server - IMAP "Other user's domain delimiter" Netscape setting**

Attempting to use Namespace with the Netscape or Mozilla clients, you will experience a problem accessing these folders. This is due to a problem on the clients that does not handle the Notes separators properly.

In the Server Configuration document under the 'IMAP - Public and Other User's Folders' tab you will find a field named; the "Other user's domain delimiter" field. Please insert any character except "/" ; we would suggest using the "|" character.

Notes Client

### **Servers not in DST time give errors on iCal repeat meetings**

When Server A has Daylight Savings Time (DST) enabled, and Server B does not have DST enabled, but both servers are in the same timezone, and a repeating event is scheduled and countered, the message **"Error trying to open document: The repeating instance document corresponding to this notice cannot be located"** is received.

This only happens when sending to an internet address (iCal). The fix is to have both servers observe DST when in the same timezone.

Notes Client

### **Webmail: Preference setting in mail delegation not updated**

If you use a web client to open, update, and save a mail delegation with 'Tools -> Preferences', upon reopening the mail delegation preferences the setting will not have been updated. This is a third-party refresh issue.

#### **Workaround**

Reopen another web client and the new setting will be displayed.

Notes Client

### **"Forward notices . . ." from a local replica doesn't work**

Setting up the "Forward notices where you are the invitee of meeting" or "Forward notices where you are the chair of meeting" preferences by using 'Tools -> Preferences -> Access & Delegation', and then selecting the "Change Access" button, from a local replica of a mail file does not work.

#### **Workaround**

Refresh the profile caching from mail server:

1. Open Preferences on the mail server, turn off "Forward notices where you are the invitee of meeting" and "Forward notices where you are the chair of meeting", then turn them both on again.

## **Policy issues**

Domino Administrator Client

### **'Default Welcome Page' field becomes blank**

The 'Default Welcome Page' field in the Desktop Settings form of the Domino Directory may sometimes become blank. To correct this, put the Desktop Settings document in Edit mode, click the 'Corporate Welcome Pages database' link in the field above, and cycle through each custom Welcome Page to refresh the list. Save & Close the Desktop Settings document.

Now, open the Desktop Settings document in Edit mode again and the 'Default Welcome Page' field will display the list of custom welcome pages available in the database.

Domino Administrator Client, Domino Server

### **Delete Policies and Settings from previous releases**

If you created Policies or Settings in an earlier release of Domino 6, you must delete them from the Domino Directory before updating the Domino Directory design with the Domino 6 template or later.

Domino Administrator Client, Notes Client, Domino Designer

### **Desktop Policies: customized My Work page on pre-6.5 Clients**

The "My Work" Welcome page in Notes feature is for a Notes/Domino 6.5 later environment. When deploying a customized My Work page via Desktop Policies, the My Work page will not display on pre-6.5 Notes Clients. Instead, the default 'Basics' Welcome Page will display on these Clients.

Domino Administrator Client, Notes Client, Domino Designer

### **Desktop Settings and 'Accounts' tab**

Some Desktop Settings may require authentication with the mail server multiple times, and several Notes Client exit/relaunches before displaying on the Notes Client. This can occur if the Desktop Settings document contains no values on the "Account" tab, or if the accounts being deployed do not generate an error message upon completion of a new Client Setup.

For example, creating new accounts via Policies can sometimes result in an error message if the server is not available, or if network login information is required to access the account (please reference the release note entitled "IMAP4 Server Error" when deploying Policies to Notes Client"). It has been found that if the user does **not** encounter an error message on creation of a new account deployed via Policies, most other settings from the Policy will require many authentications with the mail server before displaying on the Notes Client.

Domino Administrator Client, Domino Server

### **Mail policy settings documents**

When you create and save both a new Policy document and a new Mail policy settings document, the new Mail policy settings document does not display as a selection choice in the Select Keywords dialog box.

Domino Administrator Client, Notes Client, Domino Designer

### **Setup fails if Policy doc was edited by Admin w/ removed access**

Users cannot complete the Notes client setup if the Settings/Policy document was edited by a person whose access has been subsequently removed. They will see the following error message:

The policy and/or settings document assigned to you has been edited by an unauthorized person. Please notify your Administrator that you cannot proceed with the client setup.

Clicking "OK" at this point will exit the Notes client without completing the client setup.

You can fix this problem yourself by adding the following value to the Notes.INI file :

```
Setup=700005
```

The Notes client setup will no longer look for a policy document and will allow the setup to complete.

Domino Administrator Client, Notes Client, Domino Designer

### **Setup Policies not supported for Roaming Users**

Setup Policies are not supported for Roaming Users. You'll find that if a Roaming User with an assigned Setup Policy performs a new client setup, most of the Policy settings will not display on the Client. This occurs because the Policy settings are copied down to the client upon completion of the new client setup and then replication of the roaming databases occurs. Since the majority of Policy settings are stored in the roaming databases, replication of the existing roaming databases overwrites the newly copied-down Policy settings.

To work around this issue for Roaming Users, simply use Desktop Policies, which contain all of the same fields as the Setup Policies.

Domino Administrator Client, Notes Client, Domino Designer

### **Setup Profiles, Setup Settings & Bookmark creation**

When using the R5 Setup Profiles feature or the Setup Settings feature, it is likely that bookmarks will not be created on the Notes Client for database links in the Setup Profile or Setup Settings document *if the server on which the database is located is not running when the user performs their initial Client Setup*. If the server is launched at a later time, the bookmarks may still not be created on the user's Notes Client.

One workaround for this would be to include critical bookmark links in a Desktop Settings document, which will refresh on the Client once the server comes back up.

Domino Administrator Client, Notes Client, Domino Designer

### **Setup/Desktop Policies: need to exit & re-launch Notes Client**

There are some field values from the Setup & Desktop Settings documents that will not display on the Notes Client until the next session in Notes. These include most User Preference settings and may include Bookmarks and/or a Custom Welcome Page. If these settings don't display after an initial Client Setup or authentication with the mail server, try exiting and then re-launching the Notes Client; the settings should now display.

This occurs because certain settings are stored in cache upon launching the Notes Client. Changes to the field values are not reflected until the Notes Client is exited & then re-launched.

Domino Administrator Client, Notes Client, Domino Designer

### Setup/Desktop Policies: no Bookmarks, Welcome Page/Workplace

In some cases, it's possible that a user who is assigned *both* a Setup Policy & a Desktop Policy will not receive the bookmarks from the Desktop Policy or a custom Welcome Page/Workplace when they perform a new client setup.

If a user reports this problem, simply make a small change to the Desktop Policy, then save & close the Policy document. When the user next authenticates, the bookmarks & custom Welcome Page/Workplace should flow down to the Notes Client and display correctly.

## Printing issues

Domino Web Access

### Multi-page mail doesn't print properly in Internet Explorer

When printing a multi-page mail message from Internet Explorer 5.5, only the first page prints. Microsoft patch Q810847 fixes this problem.

## Programming issues

Domino for i5/OS

### DXL/XSL issues on i5/OS

There are two issues pending against the DXL/XSL functions of Domino 7, and these features are not available with the current release of Domino 7 on the i5/OS platform. The two issues are:

- An "XSL transform operation failed" error (#4604) was raised in the DXL test harness
- Agents created by the R6 DXLImporter crash when run on Domino 7 for i5/OS

Notes Client, Domino Designer, Domino Server

### Long formula language expression can cause stack overflow

If a long formula expression is executed, excessive recursion can occur, which will cause a stack overflow and crash the Notes Client or Domino Server. To date, this has only been seen on the AIX platform, but applies to other platforms as well. An example of a formula which will cause this kind of problems is:

```
MyListOfCodes := "code1" : "code2" : "code3" : "code4" : "code5" : "code6" : ... : "code892" : "code893";
```

which is a long list of strings. The number of elements that makes the expression "too long" is platform and system dependent, but a good rule of thumb is to keep the number of operands below 500. A workaround is to use smaller expressions, store intermediate results, and then use the intermediate results in a final expression:

```
MyList1 := "code1" : "code2" : "code3" : "code4" : "code5" : "code6" ... "code488" : "Code 489";
MyList2 := "Code490" : "code491" : "Code492" : "Code493" ... "Code892" : "code893";
MyListOfCode := MyList1 : MyList2;
```

If you have an application which is crashing due to this problem, then in your Notes.ini file set `FORMULA_STACKLOWCHK=1`. This is currently only implemented for AIX, but will likely expand to other platforms as needed. This will cause the formula runtime engine to check for an impending stack overflow, and will abort the formula evaluation if an overflow is imminent. This will prevent Notes/Domino from crashing, but the formula will return an error. You should use `@IsError` to check if your formula evaluated to completion.

Notes Client, Domino Server

### **NotesDocument.CreateMIMEEntity() can result in error**

NotesDocument.CreateMIMEEntity() (and the corresponding Java call) can result in a "Note item not found" error when the document has no items. For example:

```
Set doc = db.CreateDocument
Set body = doc.CreateMIMEEntity
```

would trigger the error since the new document has no items.

The workaround is to introduce to the document an arbitrary item before the CreateMIMEEntity call. For example:

```
Set doc = db.CreateDocument
Call doc.ReplaceItemValue("xyz", "123")
Set body = doc.CreateMIMEEntity
```

The exact item name and value does not matter.

Notes Client, Domino Server

### **Recompiling Visual Basic programs that use backend COM APIs**

Starting with Notes/Domino 6.0.3/6.5, some Microsoft Visual Basic language applications built using the Notes 5.x COM interfaces for backend classes would not run properly without recompiling, using the 6.0.3/6.5 domobj type library. This was fixed for Notes/Domino versions 6.5.3 and 6.0.5, however, the fix necessitates that applications still compiled with the 6.0.3/6.5 domobj type library (or later, if prior to 6.5.3 or 6.0.5) be recompiled for 6.5.3, 6.0.5 or later. Thereafter and with subsequent Notes/Domino releases, recompilation should not be necessary.

Notes Client, Domino Designer, Domino Server

### **XML parsing and Transformation Engines for Java**

In previous releases, Notes/Domino provided a version of the XML Parser called XML4j.jar, and a version of the XSL Transformation Engine called LotusXSL.jar. These libraries no longer ship with Notes/Domino because newer versions of these engines are now part of the Java 2 Platform, Standard Edition.

The Java 2 Platform, Standard Edition, as it ships with Notes/Domino, has built-in facilities for handling XML data. For information on these facilities, see the javadocs provided with the installation kit; they are located in the Notes/Domino program directory, in the zip-compressed file called javadocs.zip.

The starting page in the javadocs about handling XML data in the Java 2 Platform is the file `guide\xml\index.html`. Alternatively, the starting point for the complete Java documentation is in the file `index.html`.

#### **Additional Notes**

Some customer applications written in Domino R5 or Domino 6 had been written to use more recent versions of the XML Parser or XSLT Transformation engines than the ones that Notes/Domino provided. This was typically achieved by downloading a more current version of xerces.jar from apache.org and including it with the Java Agent project or Java Script Library. In many cases this will cause no problems in ND7, but it should be noted that including your own copy of xerces.jar in your agent or script library is no longer necessary and removing this large jar file will improve agent startup time.

In some applications, including xerces.jar in your agent/script library will cause the agent to fail with the error: "Java.lang.VerifyError:Incompatible object argument for method call".

The reason for this problem is that the application was coded to create the parser class in a manner that is not forward compatible. Here is an example of an application that is written to parse an XML stream in a non-forward compatible manner. The problem is that the `org.apache.xerces.parsers.SAXParser` class is private to xerces.jar and is likely to change with every version of xerces.jar.

**Sample Java code to create a SAX parser in a forward incompatible manner**

```
import org.xml.sax.InputSource;
import java.io.InputStream;
public class test
{
    void parse(InputStream stream)
        throws Exception
    {
        org.apache.xerces.parsers.SAXParser parser = new
org.apache.xerces.parsers.SAXParser();
        parser.setContentHandler(engine);
        parser.setErrorHandler(engine);
        parser.setFeature("http://xml.org/sax/features/validation", false);
        parser.setFeature("
http://apache.org/xml/features/continue-after-fatal-error", false);
        parser.parse(new InputSource(stream));
        // ....
    }
}
```

The better way to create a parser that does not make your application dependant on a specific version of xerces.jar is to use the org.xml.sax.XMLReader interface class. For example:

```
import org.xml.sax.InputSource;
import java.io.InputStream;
public class sample
{
    void parse(InputStream stream)
        throws Exception
    {
        org.xml.sax.XMLReader parser = new org.apache.xerces.parsers.SAXParser();
        parser.setContentHandler(engine);
        parser.setErrorHandler(engine);
        parser.setFeature("http://xml.org/sax/features/validation", false);
        parser.setFeature("
http://apache.org/xml/features/continue-after-fatal-error", false);
        parser.parse(new InputSource(stream));
        // ...
    }
}
```

Another alternative that works without directly naming the name of the SAX parser class is to use the XMLReaderFactory class to create the XMLReader. It works by reading the system property named "org.xml.sax.driver" and will create an instance of the parser named. In ND7 the following statement creates the same parser class as the one in the previous example, but it provides the option to change the parser without changing any code:

```
org.xml.sax.XMLReader parser =
org.xml.sax.helpers.XMLReaderFactory.createXMLReader();
```

Notes Client, Domino Designer

**@Contains does not work properly with DBCS containing nulls**

If @Contains is used with DBCS, and either the source or search string contains an embedded null, and the source and search string contain DBCS characters that are the same character but with different code points, then the results will be incorrect. What happens is that when dealing with DBCS strings, the formula engine converts the strings to Unicode before processing the @Contains. An embedded null (generated by @Char(0) in Formula Language) is treated as a string terminator within the Unicode string. If either the source or search string argument to @Contains has an embedded null in this situation, they will be treated as terminating just before the null byte is encountered.

However, @Contains uses a simple algorithm before it converts to Unicode. It does a simple byte-by-byte compare of the search string within the source string argument. So even in the presence of DBCS, if all the equivalent multi-byte characters in the search and source strings have the same code point (in LMBCS, the character set used internally by Notes/Domino) then @Contains will function correctly.

## Replication issues

Notes Client

### Cannot set replication schedule from Replicator page

Users are unable to set the replication schedule from the Replication page (Next Replication -> Set Replication Schedule from the drop down menu).

#### Workaround

Users can edit the replication schedule by editing their location and choosing the Replication tab.

## Roaming User issues

Domino Administrator Client, Notes Client, Domino Designer

### Other databases replicated using 'Send data to servers' prompt

The Roaming user prompt "Send data to servers" replicates **all** databases in the replication page when shutting down the Notes client, not just the roaming databases.

Domino Administrator Client, Notes Client, Domino Designer

### Replication on launch/exit remains enabled on Roaming downgrade

When a user is downgraded from a Roaming User to non-Roaming, the replication on launch and exit of the Notes Client feature remains enabled. This occurs even if there are no databases on the user's replicator page.

To correct this, simply edit the location document and disable the replication on launch and exit features. The user will no longer be prompted to update the server when exiting the Notes Client.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming Downgrade fails to remove databases from Replicator Page

In some instances, a Roaming User Downgrade will fail to remove the Roaming databases from the user's Replicator Page. As a result, replication for these databases will fail because the databases have been deleted from the server. To work around this, simply delete the entries from the Replicator Page. Also, if the user has no other databases on their Replicator Page, they may choose to edit their location document and disable the replication on launch and exit features.

This seems to occur for users who set up their Notes Client as a Roaming User and are later downgraded from Roaming. If the user upgraded to Roaming on the Notes Client, the Roaming databases are successfully removed from the Replicator Page.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming Downgrade fails to remove databases from Replicator Page

In some instances, a Roaming User Downgrade will fail to remove the Roaming databases from the user's Replicator Page. As a result, replication for these databases will fail because the databases have been deleted from the server. To work around this, simply delete the entries from the Replicator Page. Also, if the user has no other databases on their Replicator Page, they may choose to edit their location document and disable the replication on launch and exit features.

This seems to occur for users who set up their Notes Client as a Roaming User and are later Downgraded from Roaming. If the user upgraded to Roaming on the Notes Client, the Roaming databases are successfully removed from the Replicator Page.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming User Client setup - 'Connection denied' message

If a Roaming User performs a new Client Setup and their Domino Server requires additional information to connect during Setup, they may receive this error: **Connection denied. You requested server x.xx.xxx.xxx but connected to <servername/domain>**. In this scenario, the IP address in the message is correct for the named server, but an error is being generated. Simply click 'OK' at the message and Notes Setup will complete without further errors.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming User Client Setup that requires server connection doc

If the Notes Client requires a connection document to access the Roaming server, the user may receive replication error messages during a new Client Setup. Specifically, once the user has selected the default location, the following errors may display:

- **Connection denied. You requested server x.xx.xxx.xxx but connected to <servername/domain>**
- **The server is not responding. The server may be down or you may be experiencing network problems. Contact your system administrator if this problem persists**

Simply click 'OK' at both error messages and Setup will complete.

The user may also notice that replication on launch also fails with the same error. If this occurs, simply open the mail file, go back to the Replicator Page, and click 'Start Now' to manually replicate the databases. Replication should be successful from this point forward. This is a one time problem, on a new Client Setup.

To avoid this problem, the user can enter the server's IP address, instead of the Domino server name during Client Setup. This will direct the Client more clearly to the user's server.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming User Client setup & Instant Messaging configuration

Notes 6.5 introduced the **IM Setup** dialog in Client Setup that allows users to configure Instant Messaging for use within their Notes Client. A newly registered Roaming User will see the IM Setup dialog when they perform their first Notes Client Install/Setup. In addition, when a Roaming User upgrades their existing Notes Client, they will also see the IM Setup dialog.

However, for Notes7.0, if a Roaming User performs a new Client Install/Setup (subsequent client setup), they will never see this dialog. This is working as designed because the user's IM configuration will roam via their personal address book. Just as the Additional Options dialog does not display in this scenario, the IM Setup dialog will not display.

Domino Administrator Client, Notes Client, Domino Designer

### Roaming User Upgrade: User says 'No', remains In Progress

Once the Administrator initiates a Roaming User Upgrade, the user's Roaming status ('user can roam' field on Roaming tab of person document) is changed to **In Progress**. This status will be automatically updated to 'Yes' once the user has upgraded at least one Notes Client to Roaming. However, if the user never upgrades any of their Notes Clients, their Roaming status will remain in the 'In Progress' status indefinitely. There are two courses of action to change their Roaming status:

1. **Ask the user to perform a new Notes Client install and run through the Client Setup process:** if the user installs a new Notes Client on their system and launches the Client into Setup, they will be prompted to upgrade to Roaming at the end of Setup. The user should select 'Yes' at this time, which will move the Upgrade process forward and update their Roaming status to 'Yes'. The down side to this solution is that the user must re-create their bookmarks, re-populate their personal address book, and reset any user preferences they had in place on their other Notes Client. But once these settings are restored, they will Roam to the user's other Notes Clients.
2. **Administrator initiates a Roaming Downgrade and then re-initiates the Roaming Upgrade:** if the Administrator initiates a Roaming User Downgrade, the user's Roaming status will be changed to **No**. The Administrator can then initiate a Roaming Upgrade for the user, which will set the user's Roaming status to **In Progress**. Once the user accepts the request to upgrade, their Roaming status will be changed to **Yes**.

Domino Administrator Client, Notes Client, Domino Designer

### **Roaming Users should replace design of Personal Address Book**

Once a Roaming User has upgraded their Notes Client to the new release, they should replace design on their Personal Address Book database. There are design changes to the database and these are not automatically updated.

In particular, as of Notes 6.5, there is a new **IM Setup** dialog in Client Setup that allows users to configure Instant Messaging for use within their Notes Client. A newly registered Roaming User will see the IM Setup dialog when they perform their 1st Notes Client Install/Setup. In addition, when a Roaming User upgrades their existing Notes Client, they will also see the IM Setup dialog. The IM configuration settings from this dialog are stored on the **Instant Messaging tab** in the location documents in the Personal Address Book. The user must replace design on their Personal Address Book database in order to see this new tab.

Domino Administrator Client, Notes Client, Domino Designer

### **Roaming Users & IM Server connection: no simultaneous connection**

Roaming Users and multiple machine users can only connect to a Sametime server from one machine at a time. Logging on to a second machine will boot the user off of the other.

## **Search issues**

Domino Administrator Client, Domino Server

### **'Using LDAP to search a Domain index' is not available**

The Lotus Domino Administrator 7 on-line Help includes a topic titled "Using LDAP to search a Domain index". This feature is not working at the time of this release.

Notes Client

### **Arabic character highlighting not supported in Notes client**

In the current release, the Notes 7 client does not support Arabic character highlighting through Text Effects.

Notes Client, Domino Server

### **Avoid full-text indexing error caused by failed IO operation**

IO retry facilities have been implemented, which help prevent errors experienced by GTR indexing and failed IO routines, perhaps caused by third-party anti-virus facilities. When attempting to rename a file or subdirectory, or attempting to delete a file or subdirectory, the IO operation re-attempts for up to 2 minutes. Once 2 minutes have elapsed, and if the operation is still unsuccessful, then an error condition will be raised.

If 2 minutes (the default retry time) is not sufficient, use FTG\_IO\_RETRY=xx to change the IO retry delay, anywhere from 0 seconds (the minimum value) to 600 seconds (or 10 minutes, the maximum value). It is not acceptable for the IO retry mechanism to be unbounded.

A default limit of 2 minutes is adequate for both server and client implementations. Specifically, these facilities resolve GTR\IO errors: errcode = 2304 and errcode = 1806.

Domino Administrator Client, Notes Client, Domino Server

### File system deletion error in catalog.nsf

If the Domino Server has several file systems on the same machine, when deleting one or more file systems from the Domain Catalog, administrators will sometimes encounter the error:

`The file system which should be deleted still exists in Domain Index view` and the corresponding IDX folder does not get deleted. Additionally, some folders which should remain in the Domain Index will be incorrectly removed; when the domain indexer task runs, the index error messages will appear on the console.

To correct the corrupted Domain Catalog and Index, the incorrect entries in the Domain Catalog must be removed and the Domain Index rebuilt:

1. In the Domain Catalog, recreate the file system entries which should not be removed.
2. Go to the Domain Index view, and delete the file systems which should not exist in the catalog.
3. Rebuild the Domain Index by running the tell `domidx quit, load domidx -d, and load domidx -s` commands.
4. Restart the server.

Domino Server

### File types not supported by Verity Keyview Filters 7.4.21

File types listed below are not supported by Verity Keyview Filters Version 7.4.21:

- Lotus Word Pro on UNIX/Linux
- Amipro on UNIX/Linux
- Computer Graphics Metafile (CGM) (Windows/UNIX/Linux)
- MIME (Windows/UNIX/Linux)
- BMP (Windows/UNIX/Linux)

Domino Administrator Client, Domino Server

### First time creating the file system

When creating the file system for the first time from the "Files" panel of the Administrator Client, the error message "Cannot process this command. One of the parameters is incorrect" will appear.

To solve this issue, the user needs to open the catalog.nsf database from the Notes Client, and add the correct entries in the File System view.

Domino Administrator Client, Notes Client, Domino Designer

### Help may need new full-text index after multiple upgrades

If you've clicked the Search button in any earlier version of the Help databases and you upgrade to Domino 7, overwriting the previous Help databases, you may see the error message "The full text index needs to be rebuilt" the next time you open Help and click Search.

To rebuild the index:

1. Click OK to close the error message dialog box.
2. While in the Search view in Help, click the small black triangle at the right edge of the search bar to show more options.
3. Click the "Update Index" button (maximize the Help window if you can't see it), and click OK in the next dialog box.
4. Before searching, wait until the status bar shows a message saying that indexing is finished, and the circle in the search bar turns green with the word "Indexed" next to it.

Notes Client, Domino Server

### **Improve full-text search performance and memory usage**

You can improve performance when performing full-text searches on large databases, and possibly prevent "full text memory allocation error = 3301", particularly on large databases with many unique, numeric fields.

To optimize full-text indexing and search settings, implement the following notes.ini entries in step-by-step order of implementation\verification, followed by server restart:

1. FTG\_DISABLE\_PAGING=1
2. FTG\_SET\_INITIAL\_BUFLLEN=7000 (or 6000, or 5000)
3. FTG\_USE\_SYS\_MEMORY=1

Domino Server

### **Manually loading domain index need quit the scheduled task**

If choosing to run "Domain indexer" manually, you must first run the "tell domidx quit" command, and then the "load domidx -s" command, which prevents a "scheduled" domain-indexer from competing with a "forced or non-scheduled" domain indexer.

If rebuilding the Domain Index is required, the scheduled "Domain indexer" also needs to be quit first, following the steps below:

1. Stop the domain indexer using the command: `tell domidx q`
2. Delete the indexes using the command: `load domidx -d`
3. Use a Notes client to delete the documents under the view "Domain Indexer Status\by Indexing Server" from catalog.nsf.
4. Reload the domain indexer to rebuild the index file using the command (to rebuild the Domain Search index immediately): `load domidx -s`
5. Restart server.

Domino Web Access

### **Multiple words can not be highlighted from a web browser**

Multiple word highlights are not supported by web browsers. Although combining the single word searches following the search syntax can be an alternative, the number of returned documents will most likely increase. For example:

From a web browser, search the character string "highlight words" - the document which contains this string can be found in results, but the "highlight words" string can not be highlighted.

If you want to receive a highlight result, using "highlight" and "words" as a combined search string; the string can be highlighted in the results, but the number of result entries may be more than in the first instance.

Domino Administrator Client, Domino Server

### **Notes error with report when reports.nsf is full-text indexed**

When the Reports database (reports.nsf) is full-text indexed, administrators might see one of two behaviors when running a report once (Run this report = Once). An error such as "Notes error: No document found" or blank/incomplete results will be observed.

To avoid this, delete the index of the database, or simply run the report through the Domino Web Administrator. Scheduled reports should not be affected.

Notes Client, Domino Server

### **OLE attachment search doesn't support Asian languages well**

Performing searches on Chinese characters in the MS Office library will fail if the document properties contain the fields "\$OLEObjField" and "\$OLEObjRichTextField".

This is a software limitation. The GTR engine does not support OLE, especially for Asian languages, well.

Notes Client, Domino Server

### Preventing a full-text indexing GTR crash during a GTR merge

There is a facility that identifies bad record data in GTR KeyFiles during merging operations from a supplemental index or during merging into a main index. This facility is off by default.

Use FTG\_ENABLE\_GTR\_KEY\_CHECK=1 to enable this facility. In notes.ini, bad key records are identified with errcode=2247, errcode=2248, errcode=2249, errcode=2250, and errcode=2251, and a crash is avoided.

Notes Client, Domino Server

### Search CJK character strings in Text field

If an Asian language search string in the Text field of a document contains a carriage return or word wrapping, the search will fail to find the correct document. In Notes Domino 7, the GTR engine can not find the first Asian character after a carriage return in a Text field.

Notes Client

### Search query troubleshooting and limitations

Following are the issues related to full-text searching in Notes/Domino 7:

- NOT queries must be correctly formatted; in the example below, the NOT (!) operator is ignored:

Incorrect format: [body] ! director

The correct format for this query is: NOT ([body] contains (director))

- You may experience problems searching in the Names and Address Book database. Performing a "fielded" search, using the wildcard option with the singular letters A through F, may not return all valid search results. This is a Search Engine software limitation.

Example: FIELD lastname CONTAINS A\*

#### Workaround

Increase the number for letters, before the wildcard character (\*), to 2 letters.

- Error "Query is not understandable" may be given if the search query is created with a Query "condition" and any string, but without space between the two. The Search Engine can process a query using the operator symbols (!&, |) without spaces between query words and the operator symbols. However, when using a Query Condition Token (instead of a text string), the query requires a space between the operator symbol and the second text string.

#### Workaround

Insert a space between the query parts.

- Documents are not found when the search query is formatted like: word1.<space>word2 (<space> means that the 'space bar' was pressed).

#### Workaround

Surround the query with double quotation marks: "word1.<space>word2"

- The ACCRUE operator fails when the query is complex. The ACCRUE operator doesn't return the correct relevance order if the query includes additional search parts. This is a search engine limitation, it does not honor precedence set by parenthesis.

Example of problem query: (word1) AND (word2 ACCRUE word3 ACCRUE word4 ACCRUE word5)

- The Search Engine does not support the Macintosh 10000 Code page.

Domino Server

**Setting a character set for full-text indexing plain-text files**

The Domino server uses the Verity KeyView filter for retrieving content from binary attachments. The KeyView filter takes care of character set information of each binary attachment file, so that Domino full-text indexes binary attachment files, regardless of a locale configuration. This, however, is not the case for plain-text files, because a plain-text file has no character set information. The Domino server handles plain-text files under the assumption that they are written in the character set that is the same as the character set of the current locale of the server.

You can check the current locale of the Domino server by entering "show locale" at the console; the response would be something like this:

```
Region: en-US [English(United States)]
Collation: en [Latin1]
CSID: 52(Hex)
```

**NOTE:** Domino uses the CSID value to determine the character set of Text Attachments files

When the character set of a text file you want to full-text search is different from that of the server, full-text search does not work. You can avoid this problem by explicitly setting `FT_KVCS_UNKNOWN_CSID=CharacterSetVal` in the Notes.INI file. `FT_KVCS_UNKNOWN_CSID` overrides the character set value that Domino server uses for handling plain-text files. For example, if you want to full-text search plain-text files written in Shift\_JIS (a Japanese character set) on 'C' locale, you set `FT_KVCS_UNKNOWN_CSID=12` in the Domino server's Notes.INI file.

The following table shows the CSID values for some of the Windows code-pages:

Windows Code-Page ID	Language	CSID
874	Thai	90
932	Japanese	12
936	Chinese (People's Republic of China, Singapore)	1B
937	Chinese (Taiwan)	1A
949	Korean	18
1250	Eastern European	50
1251	Cyrillic	51
1252	Western European	52
1253	Greek	53
1254	Turkish	54
1255	Hebrew	55
1256	Arabic	56
1257	Baltic	57

The document "Setting up Domino on Linux for non-'C' locales", located in the 'Things you need to know - Installation' section lists other CSID values that you can use for the variable `CharacterSetVal`.

Notes Client, Domino Server

**Syntax: [<fieldname>] IS PRESENT**

The search for date/time and number type field names are not supported with the syntax: [<fieldname>] IS PRESENT.

If searching these two types of field name, you will get a message "Query is not understandable: ([Date/Time] IS PRESENT)" or "Query is not understandable: ([Number] IS PRESENT)"

Notes Client, Domino Server

**To eliminate highlight \ attachment re-filtering**

To disable attachment filtering during highlight processing (i.e., when a document is opened), set the variable:

```
FT_LIMIT_HIGHLIGHT_FILTER=###
```

where ### represents the size of files to be excluded from attachments or highlight filtering

If set to `FT_LIMIT_HIGHLIGHT_FILTER=1`, then no file will be re-filtered upon search and highlight document open. If set to `FT_LIMIT_HIGHLIGHT_FILTER=1000000`, then files 1000000 bytes or larger will skip highlight re-filtering.

Notes Client, Domino Server

**Uncleared Search results if document is left opened**

Search results are not cleared if a document from a database is left open while the database is closed and re-opened. This issue occurs when the sort option is set to "Keep Current Order" or "Show all documents".

This issue applies to full-text searching of Server databases only.

Domino Server

**Verity Keyview Filter Support switches off/on for z/OS**

Domino 7 for z/OS uses the Verity Keyview filter for retrieving text from binary attachments.

To enable this feature, a database has to be full-text indexed with the option to index binary attachments. Indexing attachments as raw text will continue to operate as before, and does not use the Keyview filter. The Keyview filter can be enabled or disabled for the entire server by specifying the Notes.INI setting of

```
FT_BINARY_FILTER_OFF
```

A value of FT\_BINARY\_FILTER\_OFF=0, or no setting present in the Notes.INI file, indicates that Keyview filter will be used, and is the default setting. A value of FT\_BINARY\_FILTER\_OFF=1 indicates Keyview filter will not be used.

This Notes.INI setting allows administrators to shut off the filter without having to change the indexing options on all databases that have the binary attachment option turned on.

Domino Server, Domino for z/OS

**z/OS HFS expand option for full-text indexes**

The Full Text Index function automatically extends the size of the file system being indexed rather than immediately failing the request when the existing file system size is insufficient. This feature does not apply to z/FS file systems.

To enable this function, specify the following in notes.ini:

```
OS390_EXPANDHFS_ENABLE=1
```

When OS390\_EXPANDHFS\_ENABLE is enabled in notes.ini, an attempt is made to expand the file system in the same volume. If this fails and the following notes.ini is also set, then there is a second attempt to expand the file system into additional volumes. Expands into additional volumes are successful only if the file system was defined as a multi volume HFS.

```
OS390_EXPAND_NEXT_VOL = 1
```

Each time a file system is successfully expanded, the following is an example of what the Domino server console displays:

```
02/22/2002 08:21:46 PM OS390_EXPANDHFS_ENABLE=1 successfully expanded
file-system-name for nn Megabytes
```

If running on z/FS, the following error message that will be displayed because BPX1PCT pfsctl() does not support the extend file system command on z/FS.

```
Error Expand File System Failed errno = 134 errno2 = 11B300BA "EDC5134I
Function not implemented."
02/22/2002 08:14:54 PM OS390_EXPANDHFS_ENABLE=1 Failure to expand file system
file-system-name for nn Megabytes
```

If an attempt is made to expand a file system with no more space left on the device (volume or multiple volumes), the following is an example of what the Domino server console displays:

```
Error Expand File System Failed errno = 133 errno2 = 5B27C005 "EDC5133I No
space left on device."
02/22/2002 08:21:46 PM OS390_EXPANDHFS_ENABLE=1 Failure to expand file system
file-system-name for nn Megabytes
```

If an attempt is made to expand a file system that does not exist, the following is an example of what the Domino server console displays:

```
Error Expand File System Failed  errno = 129  errno2 = 05F1006C  "EDC5129I No
such file or directory."
02/22/2002 08:21:46 PM  0S390_EXPANDHFS_ENABLE=1 Failure to expand file system
file-system-name for nn Megabytes
```

Notes Client, Domino Server

### **"Word variant" searches - i.e., "stemming"**

The purpose of "word variance" or "stemming" is to determine the "root" word from a constructed word and its suffixes. As an example, the root word of "settlement" is "settle". The suffixes of the word are first inspected, and then truncated. These suffixes are:

"S", "ED", "ING", "ER", "OR", "ERS", "ORS", "ION", "IVE", "ABLE", "ABLED", and "MENT"

All joined suffixes will be eliminated, for example "inger" will be removed because both "ER" and "ING" are suffixes. Once the suffixes have been eliminated, further letters will be eliminated, depending on vowel and consonant ordering. Double consonants of the same letter will be eliminated; for example, "hammer" will eliminate the "er" suffix and then the trailing "m".

Other characters\suffixes which may possibly be removed are "Y" preceded by a consonant, for example, "candy", which would also resolve to "candies" because first the "s" suffix is first removed and then the "ie" is removed because it is preceded by a consonant.

The "Word variant" search only applies to English searches (i.e., all characters in the search MUST be less than hex 0x7B). If any character (as entered in the search bar) does not meet this criterion, then a "word variant" search will not occur; the search will proceed with no stemming taking place.

## **Security issues**

Domino Administrator Client, Domino Server

### **MIME - Body of message is blank on received encrypted message**

The body of MIME-encrypted messages are occasionally blank upon receipt. This may occur because groups in the Directory Catalog are not expanded, so the editor does not create a MIME body part.

#### **Workaround**

Copy the group from the Domino Directory to your Personal Name and Address Book, so that names associated with the group are available.

Domino Administrator Client, Domino Server

### **Browser caching can interfere with revocation checking**

When configuring a browser to check CRLs for server certificates, be aware that the browser's caching of web pages can make it appear that a server whose certificate has been revoked can still be accessed securely. Flushing or disabling the browser's cache will force the browser to contact the server and re-check its revocation status.

Domino Administrator Client, Domino Server

### Benign Internet Explorer error message

Error messages that look like this

```
handshake failure, IP address [9.99.99.999], Keyring [R6keyfile.kyr], [SSL  
Error: Network IO error], code [4165]
```

are produced in many benign circumstances, especially by Microsoft Internet Explorer. The most frequent circumstance is when IE drops an SSL connection and then resumes it. The error is generated even though there is no apparent interruption perceived by the client.

Notes Client, Domino Server

### Calculation of password warning date

The Domino 7 Administrator Help topic 'Verifying user passwords during authentication' states that the calculation used to determine when users should be prompted that their password is going to expire is two-thirds of the current change interval, or a minimum of two days remaining. This is not correct. The following formula determines when users receive a password expiration warning :

Expiration Date=(Last Change Date + Change Interval) and IF (Expiration Date - Today's Date) < (25% of change Interval)

Domino Administrator Client, Domino Server

### Creating a Certificate Authority db requires adding Role to ACL

When an Administrator user attempts to create a new Certificate Authority database using the cca50.ntf database, they will receive the following error message:

**"You are not authorized to perform that operation: <servername database name>"**

This occurs because the template for the Certificate Authority database, cca50.ntf, does not contain sufficient Access Control information to allow any user to create a Certificate Authority database. The template's ACL must first be edited by a User with Administrator privileges in order to permit this. Follow these steps to enable the cca50.ntf template for creating a Certificate Authority database:

- 1) Log into a client as a user with Administrator privileges on the server.
- 2) Select File-> Database-> Open to open a database.
- 3) In the Open database dialogue, select the cca50.ntf file on the server (you will have to type in the filename, since template are not listed).
- 4) In the opened template, select File-> Database -> Access Control.
- 5) In the ACL dialogue, select the user that you want to be able to create a Certificate Authority database.
- 6) In the Roles section, check the checkbox for "**CAPrivilegedUser**".
- 7) Click OK and exit the dialogue. Then exit the template.

The user for which the Role was selected in the template will now be able to create a Certificate Authority database.

Notes Client

### Import Internet cert status from Smartcard is not updating

After you import an Internet certificate from a Smartcard, the new Internet certificate does not show up in the "Your Internet Certificates" list box in the User Security dialog box.

#### Workaround

If you close the User Security dialog box and re-open it, you will see the newly imported certificate.

Domino Administrator Client, Domino Server

### **Internet Site documents require IP address only for SSL**

When you create an Internet Site document on a Domino server for an Internet protocol, you specify a host or DNS name in the field "Host name or addresses mapped to this site." However, if you enter a host name (for example, testserver.acme.com) and enable SSL for that protocol, SSL does not work, and the server console returns the message:

```
HTTP Server: SSL handshake failure, no website found for IP address [9.95.79.250]
```

#### **Workaround**

Use the server IP address in the "Host name or address mapped to this site" field.

Domino Administrator Client, Domino Server

### **Known limitations with SSL and Notes/Domino 7** **Successful Internet Client Certificate Authentication over SSL**

- Mozilla 1.4.1 on Windows and Linux over HTTP(S)
- IE 6.0 Client over HTTP(S)
- Notes Client over HTTP, LDAP

#### **Client Condition Summary**

- **Microsoft Internet Explorer 6.0 & Microsoft Outlook Express 6.0**
  - HTTP - Works as expected
  - LDAP - Client Certificate Authentication Fails (Client Limitation)
  - POP3 - Client Certificate Authentication Fails (Client Limitation)
  - IMAP - Client Certificate Authentication Fails (Client Limitation)
  - SMTP - Works as expected
- **Lotus Notes**
  - HTTP - Works as expected
  - LDAP - Works as expected
  - POP3 - Client Certificate Authentication Fails, Name & Password works as expected
  - IMAP - Client Certificate Authentication Fails, Name & Password works as expected
  - SMTP - Works as expected

**Authentication Methods**

Settings below are found in the servers server document or Internet Site Document for each protocol respectively. Settings represent use of authentication methods to access an SSL secure session via each protocol.

<b>Legend:</b>							
Pass - Works Properly							
Fail - Bug/Crash/Not working as expected. Include a link to any SPRs							
N/S - Not Supported in Domino Configuration							
5 IE 5.x -6.x uses client certs to encrypt email and not to authenticate a secure connection with IMAP, LDAP, POP3, or NNTP							
6 IMAP and POP3 can not have anonymous enabled at all.							
8 Fails over to Name/Pass							
9 Fails over to Anonymous							
11 SMTP Inbound does not support Client Certificates							
<b>IE Domestic 6.0/ Outlook Express</b>	Client Certs: Y Name/Pass: N Anonymous: N	Client Certs: N Name/Pass: Y Anonymous: N	Client Certs: N Name/Pass: N Anonymous: Y	Client Certs: N Name/Pass: Y Anonymous: Y	Client Certs: Y Name/Pass: Y Anonymous: N	Client Certs: Y Name/Pass: N Anonymous: Y	Client Certs: Y Name/Pass: Y Anonymous: Y
<b>LDAP</b>	Client Limitation 5	Client Limitation	Pass	Client Limitation 9	Pass 5, 8	Pass 5, 9	Pass 5, 8
<b>POP3</b>	Client Limitation 5	Pass	N/S 6	Pass 6	Pass 5, 8	5, 6	5, 6, 8
<b>HTTP</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>IMAP</b>	Client Limitation 5	Pass	N/S 6	Pass	Pass 5, 8	5, 6	5, 6
<b>SMTP Outbound</b>	N/S	N/S	N/S	N/S	N/S	N/S	N/S
<b>SMTP Inbound</b>	N/S 11	Pass	Pass	Pass	11	11	11

<b>Legend:</b>							
Pass - Works Properly							
Fail - Bug/Crash/Not working as expected.							
N/S - Not Supported in Domino Configuration							
6 IMAP and POP3 can not have anonymous enabled at all.							
8 Fails over to Name/Pass							
11 SMTP Inbound does not support Client Certificates							
<b>Notes Client</b>	Client Certs: Y Name/Pass: N Anonymous: N	Client Certs: N Name/Pass: Y Anonymous: N	Client Certs: N Name/Pass: N Anonymous: Y	Client Certs: N Name/Pass: Y Anonymous: Y	Client Certs: Y Name/Pass: Y Anonymous: N	Client Certs: Y Name/Pass: N Anonymous: Y	Client Certs: Y Name/Pass: Y Anonymous: Y
<b>LDAP</b>	Pass	Pass	Pass	Pass	Pass 8	Pass	Pass 8
<b>POP3</b>	<b>Fail</b> SPR# DDU05DQU52	Pass	N/S 6	Pass	Pass 8	<b>Fail</b> SPR# DDU05DQU52 6	Pass 8
<b>HTTP</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>IMAP</b>	<b>Fail</b> SPR# DDU053URFB	<b>Fail</b> SPR# DDU05DR2AU	N/S 6	<b>Fail</b> SPR# DDU05DR2AU	<b>Fail</b> SPR# DDU05DR2AU 8	<b>Fail</b> SPR# DDU053URFB	<b>Fail</b> SPR# DDU05DR2AU 8
<b>SMTP Outbound</b>	N/S	N/S	N/S	N/S	N/S	N/S	N/S
<b>SMTP Inbound</b>	N/S 11	Pass	Pass	Pass	11	11	11

Domino Administrator Client, Domino Server

### Missing key file name generates errors in SSL-enabled lookup

The key file for outbound SSL for LDAP directory assistance and SMTP outbound is configured in the Server document (Ports -> Internet ports). If the key file specified is missing, or cannot otherwise be opened, "SSL Error: Keyring File access error" messages will appear on the server console upon server startup and when directory assistance is being used.

If Internet Site documents are enabled for the server, the configuration for the key file value is hidden.

A 'silent' error situation can occur if there is no value, or a value not ending in ".kyr", in the key ring file field on the Server document, and the server attempts to use Directory Assistance; SSL will run but the server cannot establish trust with the Directory Assistance server. You can create trust either by configuring the key file field, as described below, or by creating an Internet cross-certificate for the Directory Assistance server.

#### Workarounds

To configure the key ring file name if Internet Site documents are enabled, do the following:

1. Disable the server's use of Internet Site documents by disabling the option "Load Internet configurations from Server\Internet Sites documents" on the Basics tab of the Server document.
2. On the Server document, click Ports -> Internet Ports and, in the SSL settings section, enter the SSL key file name.
3. Re-enable the Internet Site documents option.

If the keyfile name does not end in ".kyr", rename the keyring and stash (.sth) file names correctly and make sure that the correct file name appears in the SSL key file name field in the Server document.

Domino Administrator Client, Domino Server

### Notes Password History cannot be disabled

The security policy setting "Notes password history" allows you to specify the number of expired passwords to store.

Once you have enabled this setting in a policy document, you cannot disable it.

Possible workarounds include disabling the security policy, or setting the number of expired passwords to store to 0.

Domino Administrator Client, Domino Server, Domino for z/OS

### Problem when trying to create cross-cert by typing in key value

In Domino 7, the procedure documented in the Domino 7 Administrator Help topic "Adding a Notes cross-certificate by phone" does not work. The following error message is generated:

**Server Error: The subject's public key found in the cross certificate does not match the one found in the certificate table"**

The value of the certified public key in cross certificate created in the procedure does not match the value of the cross-certificates created using the Domino Administrator.

Notes Client

### Smartcard configuration details fail to update for new user

There is a known issue that occurs when a Smartcard is configured to use two USB slots. If you switch to a new user, the User Security dialog box shows only the slot used by the previous user. The new user can not select a USB slot.

#### Workarounds

Place both users' Smartcards in both configured slots when starting Notes

or

Place the Smartcard in the selected empty slot and restart Notes.

Domino Administrator Client, Notes Client, Domino Server

### **Smartcards no longer need to be in the first occupied "slot"**

Previous versions of Notes/Domino were only capable of using smartcards and other cryptographic tokens that were in the first "slot", as presented by the smartcard vendor's PKCS#11 library.

The problem has been fixed in this release. A new dialog has been added that can be used to select the token or slot used to smartcard-enable an ID file or search for certificates to import. To open this dialog, open the User Security Panel (File/Security/User Security), select the Your Identity//Your Smartcard tab, press the "Configuration Details" button, then press the "Select Slot" button.

Once an ID file has been smartcard-enabled or a certificate has been imported, the correct token will be found and used as long as the token is connected to any of the slots presented by the PKCS#11 library.

This limitation still partially exists in the SECManipulateSC API function, which can only use the token in the first **occupied** slot when smartcard-enabling an ID file.

Domino Server

### **SSL Session Resumption**

SSL session resumption greatly improves performance when the Notes HTTP Client or server is using SSL, and may have a minor (positive) effect on other "Internet" protocols as well.

The default number of resumable sessions that will be cached on the server is 50. To modify the number of sessions cached, set the SSL\_RESUMABLE\_SESSIONS notes.ini variable to the desired number. Setting SSL\_RESUMABLE\_SESSIONS=1 will disable SSL session resumption on the server.

Currently, the number of resumable sessions will not dynamically climb to match the server SSL load, and there is currently no means of configuring sessions to time out and expire.

The default starting size of each cached session can be configured with the SSL\_SESSION\_SIZE notes.ini variable. Increasing the size of this variable will result in a lower incidence of elements being reallocated on the fly in order to hold large X.509 client certificates, but will also consume more memory.

Notes Client

### **Warning dialog box does not appear before certificate expires**

No warning message appears in the Notes client for users when their Notes certificate is expiring. For example, if a user's certificate is set to expire within a week, the user will get a warning about the certificate expiration in the User Security Panel, but does not get a warning dialog box when they log in to the Notes client.

Domino Administrator Client, Domino Server

### **"No Trusted Root Certificate" error message**

An error may occur when installing VeriSign certificates into a Notes/Domino keyring.

The only VeriSign certificates that are affected are ones issued by O=VeriSign Trust Network/OU=VeriSign Inc/OU=VeriSign International Server CA - Class 3. Before installing these certificates, you must open the certificate labeled "VeriSign Intermediate CA" and click the button "Trust This Certificate". Enter your password when prompted then proceed with "Install Certificate Into Key Ring" as usual.

Domino Administrator Client, Domino Server

### "The requested item does not exist" error

You may see this error on your server console after using the CA process to add an Alternate Name to a user:

"Error processing certificate request: The requested item does not exist."

This error only occurs if you try to recertify or register a user immediately after you add an Alternate Name to your CA Process-enabled certifier, and before the certifier has automatically refreshed its context.

#### Workaround

- At the server console, type

```
tell adminp process all
```

then

```
tell ca refresh
```

- If your CA Process-enabled Notes certifier has been locked with a user ID, you will need to unlock it using the following command:

```
te ca unlock <X:\user.id> <password>
```

Be sure to type the full path and file name of the ID file used to lock your CA and the ID's password when using the unlock command. Type the following to verify that it is active again:

```
te ca status
```

- Next, open the Administration Requests database and go to the Certification Authority Requests/Certificate Requests view. Locate and open the rejected request. The request will have been rejected with the following rejection reason:

```
5935: unknown
```

- Click Edit Request -> Approve Request. The certificate should be successfully issued.

## Server issues

Domino Server

### Server - IMAP "Other user's domain delimiter" Netscape setting

Attempting to use Namespace with the Netscape client, you will experience a problem accessing these folders. This is due to a problem on the client that does not handle the Notes separators properly.

In the Server Configuration document under the 'IMAP - Public and Other User's Folders' tab you will find a new field; the "Other user's domain delimiter" field. Please insert any character except "/"; we would suggest using the "|" character.

Domino Administrator Client, Domino Server

### Adding Domino 6 server to 7.0 domain replaces events4.nsf design

If you add a Domino 6 server to a Domino 7 domain, you need to ensure that the Domino 6 design of EVENTS4.NSF does not replace the design of the Domino 7 version of EVENTS4.NSF. To ensure that the Domino 7 design is not overwritten, delete EVENTS4.NTF from the Domino 6 server's data directory prior to launching the new Domino 6 server. During the launch of the Domino 6 server, the server console will indicate that the design is being updated but it won't replace anything. The Domino 7 server replication will ensure that the design remains a Domino 7 design. Deleting EVENTS4.NTF also ensures that the design task that runs at night will not replace or refresh the design.

If you do not delete EVENTS4.NTF from the Domino 6 server's data directory, the process described here occurs. If you install a Domino 6 server and then register the new server using the Domino Administrator client on the Domino 7 hub server, during server setup of the Domino 6 server, several Domino 7 databases are replicated to the Domino 6 server including NAMES.NSF (Domino Directory), ADMIN4.NSF, and EVENTS4.NSF. When you launch the new Domino 6 server, the design task runs and begins replacing the design of the Domino 7 database EVENTS4.NSF with the Domino 6 design of EVENTS4.NSF. The design of the Domino 7 versions of NAMES.NSF and ADMIN4.NSF are not replaced.

The Domino 6 server then contains a Domino 6 version of EVENTS4.NSF, and a Domino 7 version of ADMIN4.NSF and NAMES.NSF. If you create a server Connection document from the Domino 7 hub server to the Domino 6 server, the database design of the Domino 7 version of EVENTS4.NSF is replaced with the Domino 6 version of EVENTS4.NSF on the Domino 7 hub server. The Domino 6 design is then replicated throughout the domain.

Domino 7 features, such as DDM, that use the Domino 7 version of EVENTS4.NSF do not work on servers with a Domino 6 version of EVENTS4.NSF.

Domino Administrator Client

### **Combinations of statistics/metrics can make Server.load quit.**

There is an issue with selecting certain combinations of server statistics in the Server.load Metrics list. If Server.load quits while running and you have selected multiple stats, try selecting only one stat from the list. You can also collect the same stats on the server using Statrep.nsf statistics collection.

Domino Administrator Client, Domino Server

### **Domino Java Console - Make LocalDomainAdmins group Multi-purpose**

Set the LocalDomainAdmins group to a Multi-purpose group when using the Domino Java Console and connecting to the Domino server. If you set the LocalDomainAdmins group to a group type other than Multi-purpose, this error appears:

```
"<user name> is not an administrator for server <server name>."
```

Open the file ADMINDATA.XML file that is created in the Domino/data directory. No administrators are listed between the XML tags <admins></admins>. Change the Group Type for the group LocalDomainAdmins as follows:

#### **Changing the Group Type**

1. From the Domino Administrator, click People & Groups.
2. Click Groups and select the group you are setting as Multi-purpose.
3. Click Edit Group.
4. On the Basics tab, choose Multi-purpose as the Group Type.
5. Click Save and Close.
6. Restart the Domino server and the Java controller.
7. In the Domino/data directory, open the file ADMINDATA.XML. The administrators names now appear between the XML tags <admins></admins>.

Domino Server

### **Domino Server Controller - Don't run in the background on AIX**

For the Domino Java Console, running the Server Controller in the background on AIX may cause the Controller process not to run (in wait mode).

Domino Administrator Client, Domino Server

### Invoking Domino with Server Controller causes exception

Invoking the Domino Server with the Lotus Domino Server Controller gives the following exception message:

```
java.lang.NullPointerException
  at lotus.domino.console.DominoController.setHostName(DominoController.java:144)
  at lotus.domino.console.AdminDataParser.ReadAdminInfo(AdminDataParser.java:275)
  at lotus.domino.console.AdminDataParser.readAdmins(AdminDataParser.java:339)
  at lotus.domino.console.ControllerCmdParser.updateAdmins(ControllerCmdParser.java:257)
  at lotus.domino.console.ControllerCmdParser.run(ControllerCmdParser.java:723)
```

These exception messages are displayed only the first time a server is invoked, after installing/registering a first server or an additional server; the server will still run normally despite the errors.

Subsequent invocation of the Server will no longer display the errors.

Domino Server

### Java agents on UNIX using 4.6 Domino Java package will fail

Java agents on UNIX platforms using "import lotus.notes.\*" to load the 4.6 version of the Domino Java package will fail to run with the following error:

```
04/07/2004 13:25:13 HTTP JVM: java.lang.UnsatisfiedLinkError: NregisterJavaThread
04/07/2004 13:25:13 HTTP JVM: at lotus.notes.Session.registerJavaThread(Session.java:121)
04/07/2004 13:25:13 HTTP JVM: at lotus.notes.NotesThread.initThread(NotesThread.java:104)
04/07/2004 13:25:13 HTTP JVM: at lotus.notes.NotesThread.run(NotesThread.java:138)
```

Java agents using "import lotus.domino.\*" to load 5.0 and later versions of the Domino Java package work fine on all platforms.

To work around this problem, switch the import statement to the newer "import lotus.domino.\*" package. This package is backwards-compatible.

Domino Designer

### Java controller does not start - IbmX509 not available

After starting a Domino server with the option to start the Java Server Controller:

```
STRDOMSVR SERVER(<server-name>) JSC(*YES)
```

the server does not start and no error messages are logged. If you remove the option to start the Java Server Controller, the server will start.

The following error messages are in the CONTROLLER joblog:

```
java.lang.UnsatisfiedLinkError
  at java.lang.Error.<init>(Error.java:37)
  at java.lang.LinkageError.<init>(LinkageError.java:26)
  at java.lang.UnsatisfiedLinkError.<init>(UnsatisfiedLinkError.java:25)
  at lotus.domino.console.DominoController.access$000(DominoController.java:1
  at lotus.domino.console.DominoController$1.run(DominoController.java:207)
  at java.lang.Thread.run(Thread.java:534)
java.security.NoSuchAlgorithmException: Algorithm IbmX509 not available

  at java.lang.Throwable.<init>(Throwable.java:195)

  at java.lang.Exception.<init>(Exception.java:41)

  at java.security.NoSuchAlgorithmException.<init>(NoSuchAlgorithmException.java:38)

  at javax.net.ssl.SSLSecurity.a(Unknown Source)

  at javax.net.ssl.KeyManagerFactory.getInstance(Unknown Source)
```

```

at lotus.domino.console.SSL.initSSLContext(SSL.java:79)
at lotus.domino.console.ClientAcceptor.Init(ClientAcceptor.java:38)
at lotus.domino.console.ClientAcceptor.run(ClientAcceptor.java:71)

```

**Workaround:**

Check that you have installed all of the software pre-requisites for Domino 7 and i5/OS V5R3, including:

```

5722AC3 *BASE 5050 Crypto Access Provider 128-bit
5722AC3 *BASE 2924 Crypto Access Provider 128-bit

```

Notes Client, Domino Server

**Preventing non-KeyView filtering when using "conversion filters"**

The variable `FT_KV_DISABLE_BRUTE_FORCE=1` disables brute force filtering when a database has been designated to use "conversion filters". This is helpful in order to prevent the indexing (and storage) of unrecognizable data and file-types.

Using this variable can help improve indexing performance, and reduce the size of the on-disk index.

Domino Administrator Client, Domino Server

**RMEval cannot restart when another runjava application is loaded**

RMEval, like ISpy and ChangeMan, is a runjava server task. RMEval is automatically loaded if any DDM OS probes are enabled for the current server. If this task is explicitly unloaded, it can not be successfully loaded again until all other runjava tasks are also unloaded. It is then safe to reload any of the runjava tasks.

The workaround for this problem is to quit all runjava applications before restarting RMEval.

Follow these steps:

1. Enable OS probes.
2. Enable ISpy probes.
3. Start the Domino server.
4. Allow RMEval and ISpy to initialize.
5. Stop RMEval and ISpy by entering this command from the server console:

```

tell RMEval quit
tell ISpy quit

```

6. Restart RMEval and ISpy by entering this command from the server console:

```

load runjava RMEval
load runjava ISpy

```

Domino Server

**Running NSD manually can cause Domino to crash**

On UNIX systems, under certain conditions, running NSD manually can cause Domino to crash. This can happen when a process such as the Agent Manager (AMGR) or Web Server (HTTP) is executing Java code. To prevent this crash add the variable `AMQ_NO_SIGWAIT_SIGTRAP=1` to your system environment (see the instructions for your UNIX shell - csh, ksh, bash, etc.).

Domino Server

**Server - Domino Console**

The Domino Console is a new feature for Domino, consisting of two modules: Domino Controller and Domino Console, both Java-based applications. The Controller runs on the server end, while the Console can be run independently on any machine. On UNIX, to run Domino Console that system must be running X windows. However, Domino Controller can be started without running X windows.

Normally, starting the Domino Controller also starts the Domino Server and Domino Console on the same machine. However, once started, an administrator can then exit the Domino Console without exiting the Domino Server and/or Domino Controller. This allows administrators to reconnect with the Controller and Server by starting the Domino Console either on the same machine, or remotely on any other machine.

For Domino 6 or later, please be aware that the Domino Console is installed with the Domino server, Administrator Client and Notes Client. However, if you want to run the Domino Console separately on any machine, please follow the instructions under **Console**, below.

**Note:** Please be aware that you can not run Domino Controller [(n)server -jc -s ] and Domino server separately and expect them to communicate to each other. So one must start the domino server under the control of the Domino Controller.

**Startup Instructions for Domino Controller and Domino Console:****Controller**

- Starting with the current release of Domino 6, the server generates a file called "admindata.xml" in the data directory. Please do not modify this file manually. To set or modify admin roles, you must change the server document in the NAB.
- For the console to connect to any server, that server should be running with Domino Controller. To run server under controller issue the following command.

**On NT:** Make sure no other server is running. Run the server as: `nserver -jc`. You will see a window. DO NOT KILL OR CLOSE THIS WINDOW, but iconify it.

**On UNIX:** Make sure no other server is running. Change the directory to Data Directory. Run the server as:  
`<IDIR>/lotus/bin/server -jc`.

`<IDIR>` in this document refers to the directory where the domino server is installed.  
 For example: `/opt` or `/local`.

When you start Domino as described above, the Controller gets started and it, in turn, starts Domino Console and Domino Server. Since all three processes are running on the same machine, they will take up some system resources. If your machine is slow or memory-starved, it is suggested that you run server in the following manner (server means nserver on NT/W2K or server on UNIX):

**server -jc -c** Should not bring up the Console and should start Domino and the Controller. If the Domino server needs a password, it will only bring up the server process. You must connect from another Console and enter a password from there. If the server doesn't have a password, it will bring up all of the Domino processes.

NOTE: For the first time only after setup, connecting from a remote system using the Domino Console, you will not be able to connect if the server is waiting for a password. You can connect to Controller locally by using local server icon on the Console and enter password. However, If the server doesn't require a password, you will be able to connect.

**server -jc -s** Should bring up the Console and the Controller but not start Domino

**server -jc -c -s** Should only bring up the Controller

**Console**

- To run Console only, please follow the instructions below:

**On NT:** run "jconsole.exe" from the command prompt. This executable is located where server or administrator is installed.

**On UNIX:** run "jconsole" from the command prompt. This executable is located where server is installed.

`<IDIR>/lotus/bin/jconsole`

- In the current release, to run Domino Console separately on a machine where Domino is not installed, you need to have the following files in a directory on the machine you want to run. Copy the following from the Domino executable directory on a machine where Domino is installed, to a new directory on the desired machine.
  - `dconsole.jar`
  - `jconsole.exe` (on NT/W2K) or `jconsole` (on UNIX)
  - `jvm` directory including all subdirectories
  - Follow the steps under **Console, On NT** or **On UNIX** above, as appropriate.

#### Things you need to know:

- For any help on how to use Domino Console, refer to the on-line help menu option on the Domino Console menu.
- To Connect to any controller, the administrator needs to know his/her user name or any shortname and password (internet password field) that is in the administrators person document in the NAB.
- In the NAB, in the server document, the internet host name field must have the proper host name.
- To be able to connect to the controller, administrators need to have their names put in the appropriate fields in the server document in NAB under the Security tab. The fields are:
  - Full Access Administrators can issue all Domino, Shell and Controller commands (including quit, exit, enable/disable user).
  - Full Remote Console Administrators can issue Controller commands (including quit, exit, enable/disable user) and all Domino commands, but not Shell commands.
  - View Only Administrators can issue View Only Domino commands and Controller commands (except quit, exit, enable/disable user), but not Shell Commands.
  - System Administrators can issue Controller commands (except quit, exit, enable/disable user) and Shell commands, but not Domino commands.
  - Restricted System Administrators can issue only those Shell commands listed in the restricted system commands field and Controller commands (except quit, exit, enable/disable user).
  - Restricted System Commands should contain a list commands that can be issued by the Restricted System Administrator(s).
- The port 2050 or whatever port you are running the Domino Controller on, must be a publicly available port for the Domino Console to be able to connect from a remote machine.
- To connect to the controller for the first time, you must type in hostname of the controller/server to which you want to connect in the server name field of the Open server dialog. Once you connect to the controller/server, from the Domino Console use "File->refresh server list" menu option to get the list of available servers and server groups from the connected server. When the administrator exits the console, the server and group list are persisted in `dconsole.ini` file. Next time you start the Domino Console, there is no need to do refresh servers list unless you want to get the latest changes.
- To run Domino Controller/Domino Console on a partitioned server environment, make sure the Notes.INI file has the `TCPIP_TcplpAddress` line with the specified IP Address for the server.
- You can copy text from the console text area to the system clipboard by selecting the text using the left mouse button, and clicking the right mouse button, or by using CTRL-C, or by using "Edit -> Copy" menu option to copy.
- Clicking the right mouse button on either available or connected server list view will display a pop up menu, where you could connect, disconnect, and server information.
- For shell commands, it is recommended NOT to use Editors, Debuggers, or any other program which is interactive and uses the same shell to run.
- If you don't want to get the Controller status window displayed, please set the Notes.ini parameter: "ShowControllerStatusWindow=0". By default, the window will be displayed.
- On UNIX machines, please do NOT tee the output to a file. If you do, only controller messages will be written in to that file.
- On UNIX servers, "File->Kill Server" followed by "File->Start Server" is not asking for password if the server has a password because Kill server is not cleaning the message queues where password is remembered and used.

- The only way you can remove a domain or server from displaying on the Domino Console is by deleting the server record(s) from the "dconsole.ini".
- Administrators who issue "tell ca" commands can use "View -> Show Secure Password" or click "secure password" on the Popup menu by clicking the little arrow next to the Send button. The Password field allows user to enter passwords encrypted.
- Controller command "#restart domino" is not working as specified in the documentation. It only brings down the domino processes but does not restart domino. Please use menu commands "File->Kill Domino" followed by "File->Start Domino" instead.
- If the console is stuck in Wait Cursor mode for any reason too long, use CTRL-SHIFT-B to come to normal cursor mode.

### **Known Issues**

- When you start the console, a blank screen will intermittently display where the console text is shown. Resizing the main window will eliminate the painting problem.
- When the Look And Feel is changed, the cursor is lost from the command prompt area. If you click Send Button, open any menu or some other action, focus comes back to normal.
- If you do any local logging, for each server you do, do once "Edit -> Local Logging" even if you don't change anything before enabling by "File -> Local Logging". Otherwise, logging is written to default file "dconsole.log" instead of what is shown in "Edit -> Local Logging" dialog. Also, If you change the file path for local logging file, next time when you come into dialig "Edit->Local Logging" is defaulting to data directory.
- When Domino Console is connected to any Controller, controller immediately gives last 120 messages. If any of those messages is prompt, Domino Console may display that prompt. Ignore and cancel that dialog unless that is the last message you see on the console.
- If a prompt message is displayed while you are in a dialog, the only way you can close the prompt is by clicking on the window closing icon of the prompt. Focus is getting confused between two modal windows.

### **Internationalization Issues**

- On Linux, Domino Console that is started by the Controller has a problem when using Hebrew characters; the console freezes after it writes Hebrew characters. Instead of Controller starting the Console, start the Console separately and attach to the Controller. That is, start Controller as "server -jc -c" and Console as "jconsole" and attach to the Controller. Or, start Controller "server -jc", and as soon as you give the Domino password, exit just the Console only. Then start Console separately and attach.
- How to enter Indic language characters in Domino Console - On AIX, Linux, and NT/W2K machines, click on the icon on the top left corner of the window/dialog. Selecting the "Select Input Method" menu option pops up a menu from which you can select the Input Method Editor of choice.
- On Linux, expanding the Chinese character selection in Linux's IME results in recycling server commands being displayed because of a Linux IME problem.
- On Linux, Korean characters are not displayed while typing in the Command Input field of Domino Console.
- Domino Console does not currently support Thai locale.
- Domino Console does not support inputting text in a different language than the language of the Operating System it is running on.
- Domino Console does not switch input modes in Japanese IME using ALT+ ~ when a dialog box with text field is invoked. If you tab out to another field and come back, everything works fine.
- Domino Console does not currently support GB18030.

**Starting Controller as NT/W2K service:**

You can also run the Server Controller as a Windows NT service. To run as an NT service, you need to add "-jc" to the startup parameters. You can do in any one of the following 3 ways:

- To add the "-jc" from the command line to a stand-alone server installed as a service, use the SC tool (Sc.exe) included in the resource kit. For example:

```
Sc config "Lotus Domino Server (LotusDominoData)" binPath= "c:\lotus\domino\notes.ini -jc"
```

This is of the form: sc <server> [command] [service name] <option1> <option2> ...

For more information see Microsoft Knowledge Base article - Q251192 at <http://support.microsoft.com/default.aspx?scid=kb;en-us;Q251192>

- To add "-jc" at the end of the ImagePath value in regedit by looking for Domino service entry:

```
MyComputer -> HKEY_LOCAL_MACHINE -> System -> CurrentControlSet -> Services -> LotusDominoServer(datadirectory)
```

- Specify in the "Startup Parameters" along with other parameters. For example:

```
"c:\lotus\domino\notes.ini -jc"
```

**Note:** On NT path has to be given as c:\lotus\domino\notes.ini because of NT bug.

**Message logging by Domino Controller and Domino Console:**

Starting with the current release of Domino, logging of the controller messages has changed as explained below:

Logging on Controller End

Controller logs messages from Domino which can be controlled by the user. By default, it saves the messages in normal text format (i.e., plain messages) in Domino's data directory. However, the user can set a different directory and different name by specifying the path for ControllerLogFileName as explained in the Controller Specifics below. Every midnight, the controller starts another log file with the same path, but appending a different datetime so that the logfile won't be too big. However, if the user changes the ControllerLogFileType on the fly from the Console, then a new file also gets created, with that datetime. In essence, if a user changes ControllerLogFileName and/or ControllerLogExpiration these are taken into consideration when Domino is started, or at midnight when the new file is created, or when the user changes ControllerLogType.

Controller Specifics

Users can change these from the console, as below, by editing dcontroller.ini or by using the controller set command from console (e.g., con set ControllerLogType=2).

There are three parameters that effect the logging on the controller end. These are set in "dcontroller.ini" file in server's data directory:

```
ControllerLogType
ControllerLogExpiration
ControllerLogFileName
```

ControllerLogType

This can have 0, 1, 2, or 3 as its value.

0 -- means no logging. Do not log at all on the controller end. This is the same as not setting the DEBUG\_OUTFILE option.

1 -- means log in normal text messages. This is the default, and gives more information than the DEBUG\_OUTFILE setting. It is similar to the 'pipe' command on UNIX.

2 -- means log the messages in meta format with all info (severity, color, procid etc..) that comes from server.

3 -- means log both types of files simultaneously.

#### ControllerLogExpiration

This will keep files for the number of days set, and purge the remaining. Default value is 7 days. That means, on any day, you will have that many days-old files in the data directory, or whatever directory is set.

#### ControllerLogFileName

This will keep track of the pathname for the log file. When the user sets this, he should not give any extension. Program appends .meta or .log to the file name, and appends the datetime to the given name. Default name given is "dcntrlr". Default directory is domino data directory. Default log file are as follows:

dcntrlr06170900.log or dcntrlr06170900.meta based on the ControllerLogType.

If the user sets ControllerLogFileName=d:\logs\mylog, the files will be as follows in d:\mylog directory:

mylog06170900.log or mylog06170900.meta

However, if the user sets ControllerLogFileName=d:\logs\mylog.log, the files will be as follows in d:\mylog directory:

mylog.log06170900.log or mylog.log06170900.meta

#### Console General Information and Specifics (Local Logging)

You can log the messages that come from a particular controller/server on the local disk, when you connect from a remote Java Console. You can even log for multiple servers at the same time. Users can, on the fly, stop and start local logging. To enable or disable local logging, use the "Controller -> Local logging" checkbox.

When you enable local logging, a dialog box will pop up where the user can select the directory and file name, data type (meta or normal text) and file type (sequential or circular; if the latter is selected, the user needs to give the logfile size).

Each field has automatic tooltip text that tells what that field is. Here, the default directory is where the Java console is started.

Note: Both controller logging and local logging are writing native bytes instead of UTF8. If you have multibyte characters, they won't show correctly.

Domino Administrator Client

#### **Server Health Monitoring - false 'Server not responding' status**

Server Monitoring will sometimes report that a server is not responding or 'The remote server is not a TCP/IP host' when the server is running and responsive. This is usually caused by connectivity issues and timing. If this occurs in your domain, try increasing the monitoring time interval.

In Domino Administrator, go to the Server - Monitoring tab and set the view to 'By Timeline'. The column scale indicates the current polling interval. Simply drag the marker to increase the interval. Another way to increase the polling interval is to go to File - Preferences - Administration Preferences - Monitoring tab and change the value in the 'Poll servers every xx minutes' field.

Domino Administrator Client

#### **Server Health Monitoring - missing components for Linux**

The Health Monitoring database (dommon.nsf) is missing default threshold documents for the Linux Intel platform (also found on the Domino Administrator Client - Configuration/Health Monitoring/Index Thresholds view). Specifically, the following threshold documents are missing for Linux:

- **CPU Utilization**
- **Disk Utilization**
- **Memory Utilization**
- **Network Utilization**

As a result, the Current Reports and Historical Reports views in the Health Monitoring database will reflect "critically poor performance" for the above components on any Linux servers in the domain.

**Workaround**

Simply disable monitoring for these components. This can be done by going to the Domino Administrator Client - Configuration/Health Monitoring/Server Components view. Choose 'Edit Server Document' for any Linux servers listed in the view, disable the above components, save & close the document. A pencil icon will display next to the document to show that the automatic selections have been revised. Health reports for Linux servers will now reflect true status because the above components are being ignored.

Domino Server

**Server setup error: Special database object cannot be located**

When setting up a 7.x Domino server, specifying a server as an "existing server", the step which uses NSFDbCreateAndCopyReplica may report a problem with the special object missing.

**Workaround**

Do the following to the names.nsf file on the "existing" server:

- Run fixup
- Run copy mode compact (compact -c) This makes a new, temporary copy of the db, copies over all info, and when complete deletes the existing database and renames the temporary db.
- Touch the ACL (add foo/bar with No Access, then remove this entry.) This rewrites the ACL object.
- Clear replication history. This clears the Replication History Cache object. After this, the next replication with each other server may do a Full Search.

Domino Administrator Client, Notes Client, Domino Designer, Domino Server

**SMTP servers and Symantec AntiVirus Corporate Edition**

If you configure Symantec AntiVirus Corporate Edition 9.x or 10.x as a client on any SMTP server, be sure not to install "Internet E-Mail Auto-Protect"; this feature monitors the standard mail ports, and can cause performance degradation or failure if installed on mail servers.

For additional information, refer to the Symantec Web site: <http://www.symantec.com/index.htm>.

Domino Server

**UNIX - Running background Server Controller may cause error**

For the Domino Java Console, running the Server Controller in the background, on UNIX systems only, may cause the Controller process not to run (in wait mode). There is currently no programmatic fix available.

**Workaround**

The workaround for this issue is to make sure that the user terminal where the server controller is running in the background does not have the "tostop" bit terminal setting enabled. To check, issue the command "stty -a" in a terminal, and see if the output has "tostop" or ".tostop". If "tostop" is there, disable this bit by issuing the command "stty -tostop".

Domino Server

**UNIX - "Could not lock System prefs" error in the Java console**

This release note details an issue with Java errors within Domino on UNIX, of the following type:

```
"java.util.prefs.FileSystemPreferences checkLockFile0ErrorCode
WARNING: Could not lock System prefs. Unix error code 1101753807"
```

This error occurs because the JRE looks for security settings in `/etc/.java` and `~HOME/.java` by default. However, Domino installs its own JRE within the Notes Executable directory (`/opt/lotus/notes/latest/PLAT/jvm`), and installs System Preferences files there.

On some UNIX platforms if a JDK/JRE is installed locally for the Operating System, then this install may create a `/etc/.java` directory which is owned/writeable by root. Since Domino does not run as root, it is unable to lock the preferences file in this directory hierarchy, resulting in the above error message.

Additionally, the deinstallation of a JDK/JRE on a UNIX platform may leave behind this directory structure, but with incomplete/missing files/hierarchy, causing the same or similar error. For example, it may leave behind `/etc/.java/.systemPrefs` without containing the files `.system.lock` and `.systemRootModFile`.

Currently, there is no clear way to deal with this issue programmatically in Domino, due to the many ways Domino accesses Java functionality. It is recommended that you either:

1. Remove `/etc/.java` and use local user preferences only, either in `HOME` or just with what comes packaged with Domino (**preferred**)
2. Recursively make `/etc/.java` globally readable/writable/executable, but you will still be susceptible to the incomplete/missing files/hierarchy issue described above.

## Web Services issues

Domino for i5/OS

### DWA with Sametime chat/awareness only work with port 80

Sametime chat and awareness do not work with Domino Web Access when the HTTP server is configured to use a port other than 80.

#### Workaround

Configure the HTTP server to listen on port 80.

Domino Server

### Enumerations are not supported in LotusScript

Enumerations are not supported in LotusScript at runtime in this release for either input or output parameters to Web service methods.

Domino Server

### Failure serializing strings with embedded nulls in Java

Strings to be serialized for inclusion in a SOAP response for a Java Web service should not contain embedded nulls. Such a case will cause formation of the response to be terminated prematurely, resulting in a truncated (and thus invalid) XML document being sent as the SOAP response.

Such a string could be created in Java by the literal `"1\02\03"` for example. Additionally, the `Item.getValueString()` meth will yield such a string if the item text contains newlines.

Domino Designer

### Importing WSDL containing `xml:lang` types

Element "type" attributes with a value of `"xml:lang"` in WSDL schema definitions are rejected during WSDL import for lack of a mapping to an implementation type. This may be addressed in a future release.

Domino Designer

**Importing WSDL containing xsd:date-based simpleTypes**

When importing a WSDL document that defines a schema simpleType based on XSD "date", the generated deserializer/serializer code is wrong, but may be corrected manually without triggering WSDL document regeneration. This problem is specific to Java Web services, only. For example, importing WSDL with the following simpleType (derived by restriction based on type "xsd:date"):

```
<xsd:simpleType name="simpleDate">
  <xsd:restriction base="xsd:date" />
</xsd:simpleType>
```

will generate the following methods in the resulting "SimpleDate" Java class:

```
// Simple Types must have a String constructor
public SimpleDate(java.lang.String value) {
    try {
        this.value = (java.text.DateFormat.getDateTimelInstance()).parse(value);
    }
    catch (java.text.ParseException e){
        throw new java.lang.RuntimeException(e.toString());
    }
}

// Simple Types must have a toString for serializing the value
public java.lang.String toString() {
    return value == null ? null : value.toString();
}
```

However, neither of the above methods will produce the desired results at runtime. A possible workaround is to recode each method as follows:

```
// Simple Types must have a String constructor
public SimpleDate(java.lang.String value) {
    java.util.StringTokenizer tok = new java.util.StringTokenizer(value, "-/.");
    java.lang.Integer year = new java.lang.Integer(tok.nextToken());
    java.lang.Integer mon = new java.lang.Integer(tok.nextToken());
    java.lang.Integer day = new java.lang.Integer(tok.nextToken());
    java.util.Calendar cal = java.util.Calendar.getInstance(); // defaults to local/e
    cal.set(year.intValue(), mon.intValue()-1, day.intValue(), 0, 0, 0);
    this.value = cal.getTime();
}

// Simple Types must have a toString for serializing the value
public java.lang.String toString() {
    if (value == null)
        return null;
    else {
        java.util.Calendar cal = java.util.Calendar.getInstance(); // defaults to local/e
        cal.setTime(this.value);
        int year = cal.get(java.util.Calendar.YEAR);
        int month = cal.get(java.util.Calendar.MONTH);
        month += 1;
        int day = cal.get(java.util.Calendar.DATE);
        StringBuffer val = new StringBuffer();
        val.append(year);
        val.append('.');
        if (month < 10)
            val.append('0');
        val.append(month);
        val.append('.');
        if (day < 10)
            val.append('0');
        val.append(day);
        return val.toString();
    }
}
```

Domino Server

### Improperly serialized derived simple type in LotusScript

A derived simple type, defined in a WSDL document and imported into an RPC/Encoded LotusScript Web service, will not be serialized properly when used as an output parameter.

For example, this type defined in a WSDL document

```
<xsd:simpleType name="MYTYPE">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>
```

would yield this LotusScript code

```
Class MYTYPE
  Public value As String
  Sub NEW
  End Sub
End Class
```

When used as an output parameter, the SOAP response would contain something like

```
<MYMETHReturn xsi:type="ns1:MYTYPE">
  <value xsi:type="xsd:string">myvalue</value>
</MYMETHReturn>
```

which is not correct, and would not be interpreted correctly by a client.

The correct serialization would be

```
<MYMETHReturn xsi:type="ns1:MYTYPE">myvalue</MYMETHReturn>
```

If, however, the WSDL document were to be regenerated, the type associated with the above LotusScript code would be

```
<complexType name="MYTYPE">
  <sequence>
    <element name="VALUE" type="xsd:string"/>
  </sequence>
</complexType>
```

which would function correctly.

This issue is not limited to string-based types.

Domino Server

### Init all values to be returned by a LotusScript Web Service

If your LotusScript Web Service returns Faults with the message:

```
"Web service is unable to create LotusScript object" or "Web service is unable
to create LotusScript Array"
```

it is usually caused by uninitialized objects or arrays in the response object. A future release will recognize this, and emit empty values. In the meantime, make sure that all return values are properly initialized and/or Redim-ed.

Domino Server

### **LotusScript Constructors called by Web Services sometimes fail**

You may have a Web Service that appears to work most of the time, but occasionally fails with the following error:

```
"Web service is unable to create LotusScript object"
```

This can happen when a SOAP request passes object arguments whose CLASS definitions include a no-argument constructor (i.e., NEW method). The LotusScript provider attempts to call these constructors when marshalling the argument objects, and occasionally LotusScript yields during these operations.

The provider currently treats these yields as errors and returns a Fault where, instead, it should resume execution until the constructor has successfully completed. A possible workaround is to explicitly init the objects with code that runs in the Web Service, rather than relying on constructors.

Domino Server

### **LotusScript Doc/literal services fail**

LotusScript services which have the "Doc/literal" "SOAP message format" selected on the Advanced tab of the Web Service Infobox will fail when invoked. The SOAP response will contain a fault such as:

```
<soapenv:Fault>  
  <faultcode>soapenv:Server.generalException</faultcode>  
  <faultstring>No such operation &apos;&apos;</faultstring>  
  <detail/>  
</soapenv:Fault>
```

Domino Designer

### **LotusScript Web services and fixed-size arrays**

Although fixed-size arrays may appear in LotusScript classes as members of a class, they are not supported by the LotusScript Web service runtime, and are known to cause instability in the Domino http server if passed to a LotusScript Web service at runtime. Only dynamic arrays should be specified for array members of classes passed to/from a LotusScript Web service.

Domino Server

### **LS Web Service definitions should all be in Declarations section**

LotusScript Class and Type definitions in Script Libraries cannot always be found at runtime when responding to a Web Service SOAP request. As a workaround, define everything needed by the Web Service, including the service class itself, in the Declarations section of the Web Service.

Domino Server

### **Recompile LotusScript Web Services that include Isxsd.Iss**

If you used the Isxsd.Iss include file in LotusScript Web Services written against earlier beta releases of Domino 7, you should recompile them for this release.

Domino Server

### **User defined data in WS Fault subclass are not serialized**

For LotusScript, application-specific properties of a subclass are not serialized into the <details> element of a fault returned in the SOAP response.

That is, in LotusScript, it is presently not possible to include additional service-specific data in a fault as described in the documentation.

Domino Designer

### Web services and Agents should have unique names

Web services and Agents should have unique names, otherwise it is possible that the agent would be invoked via the ?OpenWebService URL, instead of the intended Web service.

Domino Designer

### Web services and SOAPENC arrays

The WSDL representation generated by Designer for arrays in a LotusScript Web service implementation are always of the SOAP-encoded ("SOAPENC") form:

```
<complexType name="ArrayOfxxx">
  <complexContent>
    <restriction base="soapenc:Array">
      <attribute ref="soapenc:arrayType" wsdl:arrayType="[array element type]"/>
    </restriction>
  </complexContent>
</complexType>
```

SOAPENC arrays are not always accepted by 3rd-party tools, especially when the Web service is of some "literal" SOAP message format (see the Web service advanced properties panel in Designer). Alternative array representations may be achieved by exporting the WSDL document, applying revisions with a text editor, and then re-importing into a new Web service design element. An alternative format to the above example might be:

```
<complexType name="xxxArray">
  <sequence>
    <element name="elem" minOccurs="0" maxOccurs="unbounded" type="[array element type]"/>
  </sequence>
</complexType>
```

However, this alternative array representation is not yet completely supported by the LotusScript Web service runtime. Another option is to elect the "rpc/encoded" SOAP message format (see the Web service advanced properties panel in Designer).

The SOAP-encoded WSDL array format is also generated from a Java Web service, in most cases. However, the alternative array representation shown above is also generated from Java for what are commonly known as "indexed" properties in a Java Bean. The alternative array representation is also supported by the Java Web service runtime.



## Chapter 4 - Documentation updates

### Notes Client Help

Notes Client

#### **Changes in local database encryption depend on compact**

Changes in local database encryption appears to require a compact to activate.

When encryption is first enabled, the compact seems to be automatically scheduled and requires no manual steps. However, if the database is open, it is not immediately compacted and therefore not encrypted. You must close the database and then reopen it to have database compaction happen automatically. The database is then encrypted.

To disable encryption, you must manually enable a database compact by in database properties, which disables encryption.

Notes Client

#### **Client - Client configuration (setup) changes in Notes 7**

A new client configuration wizard, which runs after install for a first time setup, or the first time a user roams to a machine, is available in Lotus Notes 7.

Differences from the pre-R5 configuration wizard include:

- The ordering of things is different, for instance if the id file is found on the server, it doesn't ask you to provide one. Also if the server can be accessed via the LAN, you are not asked to set up a phone connection.
- The configuration process has been broken into modules with each piece being completed before the next one starts. This improves error detection before the input stage is completed, allowing users to correct errors. It also means that after you have connected to the server, and your local address book has been created, you can no longer "cancel" the configuration, you can only "cancel" the yet-to-be-completed components.
- For roaming users, after connecting to the server and replicating the roaming databases, no further questions are asked. These configurations are assumed to have been completed on the initial client configuration.

Notes Client

#### **Location must point to server address if LAN connection needed**

If you have trouble upgrading to roaming from a location that requires a Local Area Network connection document to connect to the roaming server, make sure the **current** location document contains the complete host name in the Home/mail server field on the Servers tab of the Location document.

For example if your LAN connection document contains serverx.ibm.com in the Destination server address field, your current location document should contain serverx.ibm.com in the Home/mail server field.

Notes Client

#### **Rollover certificates dialog box**

The rollover certificates dialog box is accessible from the Key Rollover Information dialog box in the Notes Client Help. Its primary purpose is to show the key rollover history in a given user's ID file. The dialog box lists the rollover certificates issued to and by each key. Administrators can use this information for troubleshooting purposes.

For more information, see the topic "Key rollover" in the Domino Administration Help.

Domino Administrator Client, Notes Client, Domino Server

### Using keys stored on Smartcards

Domino 6.0.2 introduced the ability to import pre-loaded X.509 certificates from smartcards or other cryptographic tokens and use the corresponding private key on the token for cryptographic operations.

With Domino 7, it is now possible to perform this import without first smartcard-enabling the ID file. This allows users to use keys that were pre-loaded onto read-only tokens and therefore cannot currently be used to lock the Notes ID file. As long as the PKCS#11 library is correctly configured and a token is present in the reader, then the "Import Internet Certificates from a Smartcard" menu option will be available off the User Security Dialog.

However, there are limitations to this mode of operation in the current release.

- Background processes, such as Just-In-Time encryption and server tasks, are currently unable to prompt for the PIN, and so will only be able to use keys on the token if the ID file is locked with a smartcard, or if the token supports a protected authentication path and will therefore be able to prompt for the PIN itself.
- If an ID file utilizing this feature is subsequently locked with a second smartcard, it may become impossible to use any keys on the initial token on a single-slot system, since removing the smartcard that locks the ID file from the reader to insert the initial token will log the user out of Notes.
- Some older versions of Notes/Domino will be unable to use the key stored on the token.
- In the current release, the `SC_manip_ImportInetCert` opcode for the `SECManipulateSC` C API function can only be used to import certificates from the smartcard that is locking that ID file. This prevents `SECManipulateSC` from being used to import certificates into ID files that are not smartcard-enabled.

Domino Administrator Client, Notes Client

### Workplace Welcome page renamed

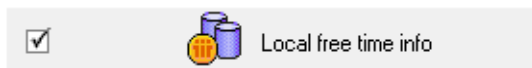
The Workplace Welcome page in Notes has been renamed the "My Work" Welcome page.

Notes Client

### "Local free time info" Replicator page entry shown with old icon

In pictures in several topics in Lotus 7 Client Help, the "Local free time info" entry on the Replicator page is shown with a book icon.

The actual icon looks like this:



The topics that show pictures of this icon are:

- Under "Getting Started" in the Contents: "Replicator page: staying current with servers"
- Under "Getting Connected" in the Contents: "Managing replication using the Replicator page"
- Under "Getting Connected" in the Contents: "Refining the sequence of replication on the Replicator page"

## Domino Administration Help

Domino Administrator Client, Domino Server

### 'Linear Growth Correlation' field in Activity Trends

The Server Trends document, on the Database Summary tab, contains the field "Linear Growth Correlation". The value in this field is used to indicate the usefulness of the Growth Rate calculation. The Linear Growth Correlation field displays a value between zero and one. A high value indicates that the future growth rate tomorrow will be similar to today's growth rate. A low value indicates that the future growth rate is not predictable.

Domino Administrator Client, Notes Client, Domino Server

### Corrected spelling for Notes.INI variable DDETIMEOUT

In the Domino 7.0 Administrator Help, there is a topic for a Notes.ini variable DDE\_TIMEOUT. The spelling for this Notes.ini variable is incorrect. It should be DDETIMEOUT.

Domino Administrator Client, Domino Server

### Creating a response file using a template

Use this procedure to create a response file that is based on the template "sample\_response.txt". Response files contain installation configuration information. The template file "sample\_response.txt" is located on the CD with the other installation files.

1. To create the response file, do one of these:
  - Open the template file, modify the file as necessary, and then save the file to a new name.
  - Save the file to a new file name, modify the file, and then save the file again.
2. Run the silent install referencing the response file.

Domino Administrator Client, Domino Server

### Creating mail database replicas in a cluster

The Domino administrator documentation contains the topic "Creating mail database replicas in a cluster during user registration." Step 7 of the procedure "From Web Administrator" in that topic is changed to indicate the correct mail template, Mail (7). The correct procedure is shown here:

#### From the Web Administrator

1. Click the People & Groups tab.
2. In the Tools pane, expand People, and then click Register.
3. Choose a CA certifier and, optionally, an explicit policy. Then click OK.
4. In the Register Person dialog box, select Advanced, and then click the Mail tab.
5. In the Mail system field, choose Lotus Notes.
6. In the Mail server field, choose a cluster server as the Mail server.
7. In the Mail template field, choose Mail (7).
8. Complete any other fields you want on the Mail tab, and then click the Replica tab.
9. Select "Create replica(s) of." A list is displayed of servers in the same cluster as the Mail server.
10. Do one of the following:
  - To create a replica of the mail database on all of the cluster servers, skip this step.
  - To change the list of servers to receive a replica, use the Add button and the Remove button.
11. Complete the rest of the user registration the way you normally would.

Domino Administrator Client

### Custom Welcome page deployment requires ACL change to database

To deploy a Custom Welcome page via Policies, please follow the updated instructions below when creating a welcome page database:

#### Creating the welcome page database

1. From the Domino Administrator, choose File - Database - New.
2. In the Server field, select Local.
3. In the Title field, enter the name of the new database. The file name is entered by default, but you can modify it. The file name can be anything except BOOKMARK.NSF.
4. In the Template Server field select Local.
5. Click Show advanced templates.
6. Click the Bookmarks (7) template.
7. Click OK.
8. Go to File - Database - Access Control and change the -Default- access to **Reader**

Domino Server

### DB2 purge interval setting

Deleting an NSFDB2 database causes all DB2 data and DB2 tables associated with the NSFDB2 database to be deleted. However, the DB2 schema and table space are not purged, to allow for recovery of an NSFDB2 database that is accidentally deleted. The Domino server's daily poll task physically removes the schema and table space container of a deleted NSFDB2 database once the DB2 Purge interval has expired.

The DB2 purge interval can be set on the DB2 tab of the Server document.

Domino Administrator Client, Notes Client, Domino Designer

### Desktop Policies: deploying a customized My Work Welcome page

There are several things to be aware of when deploying a customized My Work Welcome page via Desktop Policies:

- **Launcher:** Deploying items via the Launcher on the My Work page is not supported. If you drag/drop items to the Launcher and deploy a Desktop Policy with the customized My Work page, the Launcher will remain empty on users' desktops.
- **Group Calendar:** The Group Calendar button found on 'Team' tabs is not supported in Desktop Policies. The Group Calendar feature is specific to each individual user's mail file. As a result, it is not possible to deploy a Group Calendar to multiple users via Policies.
- **'Use System Colors' User Preference in combination with Workplace:** If the "Use System Colors" User Preference is enabled, the My Work page banner in a customized My Work page will display using system colors, not the chosen banner color/pattern. This is consistent with this User Preference setting and how other aspects of the Notes Client display when it is enabled.

Domino Administrator Client, Domino Server

### Documentation update: Console\_Log\_Enabled

There is new information about the Notes.ini variable Console\_Log\_Enabled that supercedes the topic information in the Notes.ini appendix of the Domino 7 Administrator Help.

- The default for console logging is that it is now enabled, with a minimal 1K log file size.
- If the user later specifies CONSOLE\_LOG\_ENABLED or enables logging via the server console command, then the default console log size is changed to unlimited (unless CONSOLE\_LOG\_MAX\_KBYTES is set).

Domino Administrator Client, Domino Server

### Inheriting policy settings requires a parent policy

For both organizational and explicit policies, you cannot inherit policy settings unless there is a parent policy from which to inherit settings. For example, policy settings at the Organization level cannot be inherited, because this policy is at the top level of the hierarchy; there is no parent policy above it.

To inherit policy settings in policies at the OU level, the policy setting in the parent policy must have a value. Some, but not all, policy settings have default values. If you are unsure whether a policy setting value exists in a parent policy, use the Policy Viewer.

It's generally a good practice to set a default value in the settings document.

Domino Administrator Client, Domino Server

### Installing Domino Server - documentation correction

The information in the setup portion of the Lotus Domino 7 *Administering the Domino System, Installing Domino Servers*, and the corresponding online documentation, requires correction. The documentation that states that server names cannot contain spaces nor underscore characters ( ) is incorrect. The server name cannot contain parentheses, @,/, \, =, +, but can contain blank spaces and underscore ( ) characters.

Domino Server

### International issues in Java-based Domino Console

Following are the International issues with the Java-based Domino Console:

- On Linux, the Domino console that is started by the Controller does not work correctly using Hebrew characters; the console freezes after it writes Hebrew characters. Instead of allowing the Controller to start the Console, start the Console separately and attach to the Controller. That is, start the Controller using the command, "server -jc -c", and start the console using the command, "jconsole", and then attach to the Controller. Or, start the Controller "server -jc", and as soon as you enter the Domino password, exit just the Console. Start the Console separately and attach.
- Entering Indic language characters in Domino Console - On AIX, Linux, and NT/W2K machines, click the icon in the top left corner of the window/dialog. Select the "Select Input Method" menu option to display a menu from which you can select the Input Method Editor of choice.
- On Linux, expanding the Chinese character selection in Linux's IME results in recycling server commands being displayed. This is due to a Linux IME problem.
- On Linux, Korean characters are not displayed while typing in the Command Input field of the Domino Console.
- The Domino Console does not currently support Thai locale.
- The Domino Console does not support inputting text in a language other than the language of the Operating System.
- The Domino Console does not switch input modes in Japanese IME using ALT+ ~ when a dialog box with text field is invoked. If you tab to another field and then return to the original field, it works.
- The Domino Console does not currently support GB18030.

Domino Administrator Client, Domino Server

### Pushing updated policies to the local cache

You can force updated policies to be pushed to the local cache. After you have updated the policy or associated settings documents, wait about five minutes for the indexes, views, etc. to update. Then do one of the following:

- Press F5 to clear the local settings, and then press F9 to reset the settings with the server.
- Enter the server command DROP ALL to force authentication and update the cache with any changes to policies.

Domino Administrator Client, Notes Client, Domino Server

### Removing password policy restores password quality defaults

The password quality/length setting in a custom password policy reverts to the default password quality setting if the custom password policy is removed from the user's Person's document.

Domino Administrator Client, Domino Server

### Run missed probes at next interval setting

When creating the schedule for a scheduled probe, the option 'Run missed probes at next interval' for the field "How should missed probes be handled?" is sometimes misunderstood. The definition of 'Run missed probes at next interval' means that the probe will run at the next time interval the server is up for the scheduled time. For example, if your probe is set to run weekly on Wednesdays at 12am and the server is down at this time, the server will try to run this probe at the next scheduled time which would be Thursday at 12am.

Domino Administrator Client, Domino Server

### Scriptable Setup for client install - Sample file

The Domino Administrator documentation is being updated to include this example of a scriptable setup file used for client installation.

#### Sample

This is a sample scriptable setup file for a LAN connection. All options are used in this sample file.

```

Username = Joe Employee
KeyFileName=G:\sharedrive\userid\jemployee.id
Domino.Server=1
Domino.Name=servername/domain (For example, server1/sales/enterprise)
Domino.Port=TCP/IP
IM.Server=servername.misc.domain.com
IM.Port=12345
IM.ConnectWhen=2
IM.Protocol=3
IM.ProxyType=2
IM.ProxyServer=sametimeproxy.domain.com
IM.ProxyPort=789
IM.ServerNameResolve=0
IM.ProxyUsername=joeemployee
AdditionalServices=0
Mail.Incoming.Protocol=2
Mail.Incoming.Name=INCOMING INET MAIL
Mail.Incoming.Server=servername.misc.domain.com
Mail.Incoming.Username=jemployee
Mail.Incoming.Password=xyz123
Mail.Incoming.SSL=0
Mail.Outgoing.Name=OUTGOING INET MAIL
Mail.Outgoing.Server=servername.misc.domain.com
Mail.Outgoing.Address=joeemployee@domain.com
Mail.InternetDomain=misc.domain.com

```

```
AdditionalServices.NetworkDial=1
NetworkDial.EntryName=TEST 1 Dial-up Connection
NetworkDial.Username=jemployee
NetworkDial.Password=xyz123
NetworkDial.Phonenumber=area code-phone-number (For example, 508-123-4567)
NetworkDial.Domain=domainname
News.Name=NEWS SERVER ACCOUNT
News.Server=server.domain.com
Directory.Name=LDAP DIRECTORY SERVER ACCOUNT
Directory.Server=name.misc.domain.com
Proxy.UseHTTP=0
Proxy.HTTP=proxy.domain.com:8080
Proxy.FTP=proxy.fake.com:8080
Proxy.Gopher=proxy.fake.com:8080
Proxy.SSL=proxy.fake.com:8080
Proxy.SOCKS=proxy.domain.com:1080
Proxy.HTTPTunnel=proxy.domain.com:8080
Proxy.None=domain.com
Replication.Threshold=3
Replication.Schedule=1
```

Domino Administrator Client, Domino Server

### **Seamless mail upgrade requires Multi-user install**

To use the seamless mail upgrade for multiple users who share a single workstation, you must install the Notes clients using the multi-user install option.

Domino Administrator Client, Domino Server

### **Server - Setup and Desktop Policies**

In Domino 7, the R5 Setup Profiles have been migrated to Setup and Desktop Policies. This release note describes the changes from R5 Setup Profiles to the new Policies.

#### **Migration**

Organizations using Setup Profiles should consider migrating to policies. Although Setup Profiles will continue to be supported in Domino 6, no new features will be incorporated. Administrators will no longer be able to specify a Setup Profile at user registration time. A migration tool to convert Setup Profiles to Policies is not available at this time.

#### **Co-existence of Setup Profiles and Policies**

If a setup profile is specified in a person record, it has precedence over any setup or desktop policy which would apply to this user.

#### **Execution of Setup Policies**

Setup policies are executed once per Client configuration, as part of the initial Client configuration. Changes made to a setup policy will not affect existing clients to which this policy applies (this is the setup functionality which existed in R4, with setup profiles). Initial settings which serve as a starting point for users should be included in setup policies. The administrator is not concerned with keeping these settings up to date on the user's clients.

**Execution of Desktop Policies**

Desktop policies are applied to a user's Client configuration whenever a change to the policy occurs. Administrators should include settings which must be kept up to date in desktop policies; for example, if a server phone number is changed in a desktop policy, it is applied to all clients to which this policy applies. Desktop policies are applied in the same manner that setup profiles were applied via dynamic Client configuration in R5.

**New features of Setup and Desktop Policies**

Settings can be pushed to NOTES.INI (W32) or Notes Preferences (Mac) files via Setup or Desktop policies. There is a new tab in both of these policies called Preferences which contains a group of settings which can be applied to Clients, based on the execution of the particular type of policy. The group of preferences which can be set is extensible in the same manner as location settings in R4 and R5. See the Domino Administration Help guide for details.

**New features of Desktop Polices**

Desktop policies also include a section to apply welcome page customizations to users. The steps to add welcome pages to a user's desktop are detailed in these release notes under "Welcome page deployment".

A set of any type of bookmarks in any configuration can be pushed to a user. Bookmarks can be added to the bookmark bar, specific folders or subfolders (including the startup folder) or hierarchies of bookmarks can be added to the user's desktop. An administrator configures the layout of bookmarks desired, then drags it into the grey outline at the bottom of the database tab in the desktop policy. This hierarchy of bookmarks is merged with the user's copy. The administrator can later make changes by moving or removing bookmarks from this outline and those changes will also be reflected for the user.

"Do not allow private location docs" field in the Desktop Settings doc is new for Domino 7 and it means that if a company used the obscure location action to make location documents private they will not be slammed by upgrading to Domino 7. This field forces the admin to make a conscious decision to ignore that old flag. This flag(NoPrivateLocs) is used by the NAMEDPISFieldLocked routine to determine if the fields should be locked or not.

Domino Administrator Client, Domino Server

**Server statistics generated by the Update task**

The Update task generates the following server statistics in Domino 7:

- Update.DeferredList  
Number of unprocessed update requests in the deferred queue
- Update.DeferredList.Duplicates  
Number of requests that have been discarded from the deferred queue because they were duplicates of a request already in the queue
- Update.DeferredList.Max  
The maximum length that the deferred queue has been since we started
- Update.DeferredList.NextDueTime  
The date and time at which the next deferred request will be processed
- Update.NAB.Updates  
The number of times views in the NAB have been updated
- Update.PendingList  
Number of unprocessed update requests in the immediate queue
- Update.PendingList.Duplicates  
Number of requests that have been discarded from the immediate queue because they were duplicates of a request already in the queue
- Update.PendingList.Max  
The maximum length that the immediate queue has been since we started
- Update.PendingList.NextDueTime  
The date and time at which the next immediate request will be processed
- Update.PendingList.Processed.AllViews (or Compactions, or SingleView)  
The total number of all view update requests performed

If Full-Text Indexing is performed on another thread, the following server statistics are generated in Domino 7:

Update.FullTextList

Number of unprocessed FT requests in the FT queue

Update.FullTextList.Duplicates

Number of requests that have been discarded from the FT queue because they were duplicates of a request already in the queue

Update.FullTextList.Max

The maximum length that the FT queue has been since we started

Update.FullTextList.Processed

The total number of all FT update requests performed

Domino Web Access

### Setting up Domino Web Access with Sametime error

The Domino Administration help topic "Setting up Domino Web Access with Sametime" incorrectly identifies the Sametime Applet directory as the location from which to copy Sametime server related files. Use the information here instead.

#### Part 8 - Copy the Sametime server related files between Sametime servers and Domino servers

In Domino 6.5 for a mixed environment using Forms5.nsf and Forms6.nsf, use the following steps for Forms5.nsf (not supported on Mozilla):

1. Copy the contents from the Sametime applets folder on the Domino Web Access server to the Sametime server. On the Domino Web Access server, the applets are located in the "Sametime" directory:

```
<data directory>\domino\html\Sametime
```

Domino Administrator Client

### Some Domino Admin tools available only with Service Provider

The Domino service provider software contains a Hosted Organization - Create tool and a Hosted Organization - Delete tool on the tools pane in the Configuration tab of the Domino administrator. Refer to the Service Provider portion of the Domino Administrator online help for instructions on how to use each tool.

The Configuration tab on the Domino Administrator does not contain tools to register an organization, nor does it contain the tool to register an organization unit. Organizations and organization units are not supported in a Domino hosted environment.

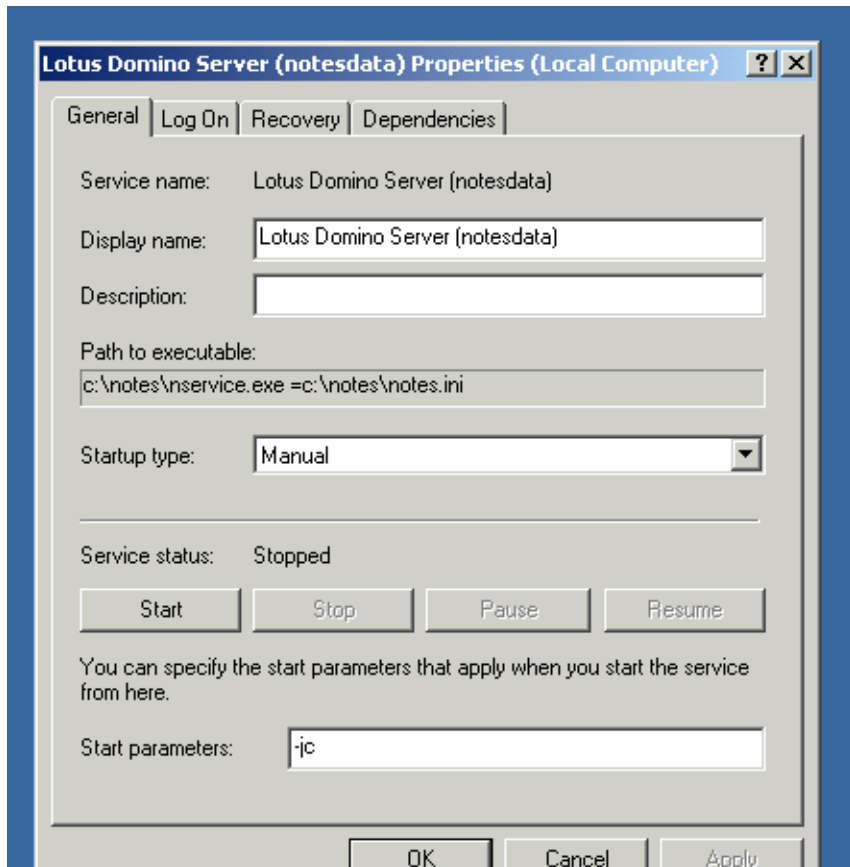
Domino Server

### Starting the Domino server controller as a Windows service

To start the Domino server controller as a Windows service, in the Services Dialog box for the Lotus Domino Server Service, in the "Start Parameters" field, type:

```
·jc
```

For example, see the entry in the Start Parameters field in the following dialog box:



Domino Administrator Client, Domino Server

### Synchronizing Notes client and Domino HTTP passwords

If you have enabled password synchronization for Notes client users, your Notes client users can synchronize their Notes User ID password with their Domino Web/Internet password, allowing them to use the same password for both Notes and Internet access.

Domino Administrator Client, Domino Server

### System and application templates

The Domino Domain Monitor database template (DDM.NTF) should be included in the topic "System and application templates" in the Domino Administrator 7 documentation.

Template title and file name	Template name	Purpose
DDM.NTF		Records and reports statistics that portray the activity of users (clients) against the databases on the Domino server where this database resides.

## Domino Designer Help

Domino Designer

### Adding actions to right mouse button menus for views

You can add actions to the menus that pop up when a Notes user clicks the right mouse button in a view. To include an action in the right mouse button menu for a view, choose "Include in right mouse button menu" on the Action Info tab of the properties box for the action.

When you add an action to the right mouse button menu, keep the following in mind:

- If you add a shared action to a right mouse button menu, the action appears on the right mouse button menu for all views that use that action.
- If an action you add to the right mouse button menu is part of a submenu, the parent menu item also appears on the menu.

Domino Designer

### Agent and Web services profiling

Calls to Domino Objects in agents or Web services written in LotusScript or Java can be monitored and their elapsed times reported.

To enable profiling in an agent or Web service, select the Security tab of the properties box and check "Profile this agent" or "Profile this web service." Profiling occurs each time an enabled agent or Web service runs. Agent profiling occurs on both the Notes client and Domino server.

To view the profiling results for the latest run, select the agent and choose Agent - View Profile Results, or select the Web service and choose Design - View Profile Results.

The results are presented in a document based on the hidden form \$BEProfile. The result document contains a heading listing the name of the agent or Web service and the creation time. The Body item of the result document contains a table with a row for each Domino Objects method called and 5 columns:

- Class -- The name of a Domino Objects class using normalized names such as Session, Database, and Document.
- Method -- The name of a Domino Objects method or property using normalized names such as CurrentDatabase, AppendItemValue, and Save.
- Operation -- For properties, the type of operation: Get or Set.
- Calls -- The number of times the method or property was called.
- Time -- The amount of time the calls consumed in milliseconds. The symbol "<" means not enough time to calculate.

The LotusScript NotesAgent class contains a new method GetPerformanceDocument which returns the profiling results for the agent as a NotesDocument object. Use of this NotesDocument object is restricted to the second parameter of EditDocument in NotesUIWorkspace, allowing the profiling results to be opened as a UI document. The NotesDocument object returned by GetPerformanceDocument is considered read-only; results are undefined if you write to this object. This method is in the LotusScript interface only.

The following code opens the profiling results for an agent as a UI document.

```
Sub Initialize
    Dim session As New NotesSession
    Dim db As NotesDatabase
    Dim agent As NotesAgent
    Dim doc As NotesDocument
    Dim ws As New NotesUIWorkspace
    Dim uidoc As NotesUIDocument
    Dim agentNames() As String
    Dim i As Integer
    Set db = session.CurrentDatabase
```

```

' Build list of agent names and have user select one
i = 0
Forall a In db.Agents
    Redim Preserve agentNames(0 To i)
    agentNames(i) = a.Name
    i = i + 1
End Forall
title = ws.Prompt(PROMPT_OKCANCELLIST, "Agent name", _
"Select the agent to be viewed", agentNames(0), agentNames)
If Isemtyp(title) Then Exit Sub

' Get the selected agent then its performance document
Set agent = db.GetAgent(title)
Set doc = agent.GetPerformanceDocument
If doc Is Nothing Then
    Messagebox "No profiling results",, title
    Exit Sub
End If

' Open the performance document for viewing
Set uidoc = ws.EditDocument(False, doc)
End Sub

```

The above code will fail to find the \$BEProfile form when it runs in the Notes client if no profile results were previously viewed for any agent in the database. This is because the Notes cache does not contain the newly-created form and cannot be refreshed. The user must close and reopen the database, and if this fails, close and reopen Notes. Alternatively, you can first view profiling results for an agent in the database from the Designer UI.

Notes Client, Domino Designer

### Autosave for Notes documents

Autosave is a Notes Client feature by which Notes documents are automatically saved to a local database at regularly scheduled times determined by the user. If Notes crashes, or if the user loses power, the user can recover the work that was done prior to the crash or power loss.

If the user enables the AutoSave feature, the most current version of the document is saved to an Autosave database (...data\autosave.nsf). The Autosave database is created automatically when the Notes client is first installed. The user then recovers the documents from this database.

**Note:** Users can override the default location for autosave.nsf by setting the Notes.ini variable `auto_save_db` to the file location of their choice.

Note that the original Notes document is still stored in its database or Notes application; the version with the newest changes that has not yet been saved is the one copied to the Autosave database.

### Enabling AutoSave in forms

In order for a document to be autosaved, the form from which the document is created must be enabled for Autosave.

1. Open the form's Properties infobox
2. On the Information tab, under Options, select "Allow Autosave."

**Note:** Application developers should be sure to test the forms in their applications with Autosave to ensure that Autosave works properly with the application.

### Enabling AutoSave in the Notes client

You enable AutoSave in the Notes Client User Preferences.

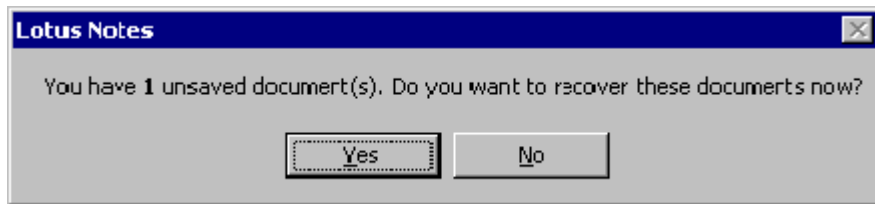
**Note:** The form on which your document is based must be enabled for AutoSave by the application developer. If you enable Autosave in the Client, the client status bar will indicate when a document is being autosaved. If Autosave is not enabled for a particular form, speak with the application developer for that application about enabling Autosave.

1. Click File > Preferences > User Preferences.
2. On the Basics pane, under Startup Options, enable "AutoSave Every 15 Minutes."  
**Note:** the default Autosave time is 15 minutes.
3. (Optional) Increase or decrease the autosave interval.
4. Click OK.

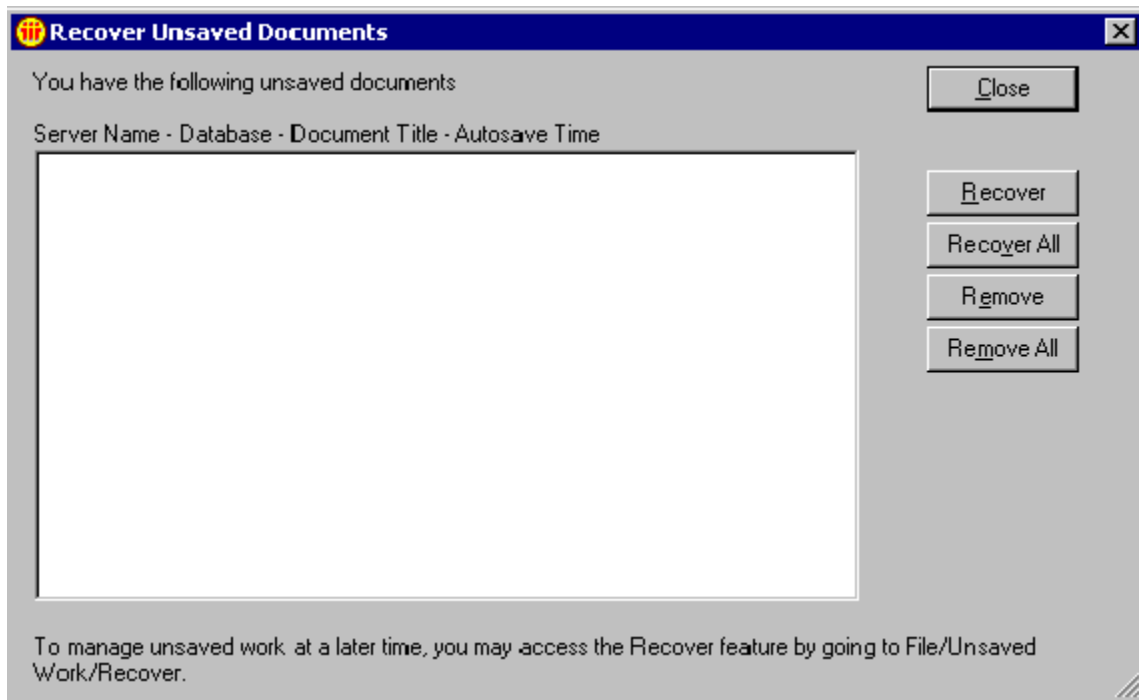
#### Recovering documents saved with the AutoSave feature

Users can recover autosaved documents immediately upon startup, or at a time of their choosing.

At startup after a crash or power loss, and after the user authenticates, the user is prompted to recover unsaved work:



If the user presses **Yes**, the Recover Unsaved Documents dialog box appears that lists the documents that can be recovered.



Users have the following options:

- Recover - recover the selected document
- Recover All - recovers all documents without prompting for each one
- Remove - removes the selected document from the Autosave database
- Remove All - removes all documents from the local database

Alternatively, the user can select No and recover the autosaved documents later by selecting **File - Autosave - Recover Autosaved Documents**. The Recover Unsaved Documents dialog box appears and users can recover or delete documents as described above.

Once a document has been recovered from the AutoSave database, it is automatically removed from that database. This helps keep the Autosave database from becoming too big.

#### Other Autosave options

(Note: These options only work if the form has been enabled for AutoSave.)

- Occasionally users may be in the middle of editing a document and need to save the document immediately. They have the option of saving the current document to the AutoSave database by selecting **File - AutoSave - Autosave Now**.
- Users have the option of keeping a copy of the working document in the Autosave database until they choose to delete it by selecting **File - AutoSave - Save a copy to the Autosave database**.

Domino Designer, Domino Server

### Changes to accessibility for Web applications

There are some changes to the way alternate text (ALT text) is handled for accessibility in Web applications. The following features are implemented for ALT text for pictures and image resources.

- If you do not add ALT text to a picture or image resource in a rich text field, the Web server no longer generates a null ALT text attribute automatically.

**Note** The null ALT text attribute (Alternate Text = "") causes screen readers to skip the image when reading the Web page. If there is no ALT text attribute at all, screen readers read the source URL for the image. You can add the ALT text attribute by entering text in the Alternate Text field in the properties box for the picture or image resource. To use the null ALT text attribute, enter "" in the Alternate Text field.

- The Web server now automatically generates ALT text for additional images on the Web pages the Web server generates. The Web server automatically generates ALT text for the images associated with the following: calendar view navigation, view column sorting, MIME attachment markers, and free time schedules.

Domino Designer

### Correction to Web Services topic

The following amends the first paragraph of the Web services topic in the Domino Designer Help.

Domino supports Web services as defined in the W3C documents *Simple Object Access Protocol (SOAP) 1.1* (<http://www.w3.org/TR/2000/NOTE-SOAP-20000508>) and *Web Services Description Language (WSDL) 1.1* (<http://www.w3.org/TR/2001/NOTE-wsdl-20010315>). See also *Web Services Architecture* (<http://www.w3.org/TR/ws-arch>) and *Web Services Activity* (<http://www.w3.org/2002/ws/>).

Domino Designer

### Design list usability improvements

The following changes have been made to Design lists to make them more compact and easier to use.

- The Comment column now appears on the same line as the other columns for each design element. This lets Designer display the information for each design element on one line instead of two.
- To further compact the width of the Design list, some of the column titles are now icons instead of text. Among the column titles that use icons are No Refresh, Notes, Web, and Mobile.
- The Inherits From column has been moved to the right of the No Refresh column.
- The Trigger column in the Agents Design list displays icons for triggers instead of text descriptions of triggers. In addition, the column title for Private Agent is now an icon instead of text.
- Similar changes have been made to the Shared Actions Design list in order to conserve space and make the list easier to use.
- The Comment column is now sortable.

**Note** Some icons include descriptions you can access. If you are unsure what an icon represents, hold the mouse pointer over the icon. Designer displays the meaning of the icon. (The icons that are used as column titles do not include these descriptions yet.)

Domino Designer

### Editing fields in a design element without opening the element

You can now edit the Name, Alias, and Comment fields of a design element directly in the Design list in the Work pane. You no longer need to open the design element.

To edit the Name, Alias, or Comment field of a design element, do the following:

1. In the Design pane, click the type of design element that you want to edit. For example, click Forms.
2. In the Work pane, select the design element that you want to edit. For example, click the form you want to edit.
3. Click the field in that design element that you want to edit. For example, click the Name field.
4. Edit the field and then press ENTER.

Domino Designer

### NotesDXLExporter SchemaLocation and ValidationStyle

Below is documentation for two new properties.

#### SchemaLocation property

Read-write. The URI of the schema for the DXL being exported.

**Note** This property is new with Release 7.

**Note** This property is not supported in COM.

#### Defined in

[NotesDXLExporter](#)

#### Data type

String

#### Syntax

To get: *uri*\$ = *notesDXLExporter.SchemaLocation*

To set: *notesDXLExporter.SchemaLocation* = *uri*\$

**Usage**

This property applies when [ValidationStyle](#) is VALIDATIONSTYLE\_SCHEMA.

Defaults to the location of an XSD file in the xmlschemas subdirectory of the ND program directory, for example:

```
http://www.lotus.com/dxl xmlschemas/domino_7_0.xsd
```

**Example: SchemaLocation property**

This agent generates DXL from the current database using a specified schema for validation.

**Sub Initialize**

```
Dim session As New NotesSession
Dim db As NotesDatabase
Set db = session.CurrentDatabase

REM Open xml file named after current database
Dim stream As NotesStream
Set stream = session.CreateStream
filename$ = "c:\dxl\" & Left(db.FileName, Len(db.FileName) - 3) & "dxl"
If Not stream.Open(filename$) Then
  MessageBox "Cannot open " & filename$, "Error"
  Exit Sub
End If
Call stream.Truncate

REM Export current database as DXL
Dim exporter As NotesDXLExporter
Set exporter = session.CreateDXLExporter
exporter.ValidationStyle = VALIDATIONSTYLE_SCHEMA
exporter.SchemaLocation = _
  "http://www.lotus.com/dxl xmlschemas/domino_7_0.xsd"
Call exporter.SetInput(db)
Call exporter.SetOutput(stream)
Call exporter.Process
End Sub
```

**ValidationStyle property**

Read-write. The method for validating the DXL being exported.

**Note** This property is new with Release 7.

**Note** This property is not supported in COM.

**Defined in**

[NotesDXLExporter](#)

**Data type**

Constant of type Integer

**Syntax**

To get: *style%* = *notesDXLExporter.ValidationStyle*

To set: *notesDXLExporter.ValidationStyle* = *style%*

**Legal values**

- VALIDATIONSTYLE\_NONE (0)
- VALIDATIONSTYLE\_DTD (1) (default)
- VALIDATIONSTYLE\_SCHEMA (2)

**Usage**

Setting this property to VALIDATIONSTYLE\_DTD sets OutputDOCTYPE to True. Setting this property to any other value sets OutputDOCTYPE to False.

Setting OutputDOCTYPE to True sets this property to VALIDATIONSTYLE\_DTD. Setting OutputDOCTYPE to False sets this property to VALIDATIONSTYLE\_NONE if it is currently set to VALIDATIONSTYLE\_DTD; otherwise, this property remains unchanged.

**Example: ValidationStyle property**

This agent generates DXL from the current database using the default schema for validation.

Sub Initialize

```
Dim session As New NotesSession
```

```
Dim db As NotesDatabase
```

```
Set db = session.CurrentDatabase
```

```
REM Open xml file named after current database
```

```
Dim stream As NotesStream
```

```
Set stream = session.CreateStream
```

```
filename$ = "c:\dxl\" & Left(db.FileName, Len(db.FileName) - 3) & "dxl"
```

```
If Not stream.Open(filename$) Then
```

```
Messagebox "Cannot open " & filename$, , "Error"
```

```
Exit Sub
```

```
End If
```

```
Call stream.Truncate
```

```
REM Export current database as DXL
```

```
Dim exporter As NotesDXLExporter
```

```
Set exporter = session.CreateDXLExporter
```

```
exporter.ValidationStyle = VALIDATIONSTYLE_SCHEMA
```

```
Call exporter.SetInput(db)
```

```
Call exporter.SetOutput(stream)
```

```
Call exporter.Process
```

```
End Sub
```

Domino Designer

**Script Libraries for Web Services**

Notes Domino Designer 7.0 supports the use of script libraries for web services.

The Port type class (sometimes called the implementation class) is specified in the Basics tab of the web services properties box. This class may be defined in the web service "declarations" object, or it may be defined in an included script library.

The following must be defined in the same location as the Port type class:

- all namespace constants
- all enumeration classes and their associated "List" object and constants

Class types that are used to define other classes may be inherited across script libraries. They must be included, but need not be in a single library.

Example:

This web service defines the PortType1 class, which has a single function, Foo, that takes two string inputs, and returns a value of type Twostrings. The class Twostrings is defined in the library2 script library.

```
%INCLUDE "Isxsd.Iss"
%INCLUDE "library2.Iss"
```

```
Class PortType1
```

```
  Sub NEW
  End Sub
```

```
  Function Foo(input1 As String, input2 As String) As Twostrings
  End Function
```

```
End Class
```

```
library2:
```

```
Class Twostrings
```

```
  Public stringone As String
  Public stringtwo As String
```

```
  Sub NEW
  End Sub
```

```
  Public Property Get String1Prop As String
    Let String1Prop = stringone
  End Property
```

```
  Public Property Set String1Prop As String
    Let stringone = String1Prop
  End Property
```

```
  Public Property Get String2Prop As String
    Let String2Prop = stringtwo
  End Property
```

```
  Public Property Set String2Prop As String
    Let stringtwo = String2Prop
  End Property
```

```
End Class
```

Domino Designer

### Server requirements for running a Java program

In the server Notes.ini file, the JavaMaxHeapsize should not be decreased below a value of 64M, or a runtime error will occur when attempting to execute nhttp.exe. If a value for JavaMaxHeapsize is not set in the server Notes.ini file, a value of 64M will be used.

Domino Designer

### Shared columns

Shared columns allow the creation of a common column for insertion in multiple views in the same database, eliminating the need to create the same column multiple times and creating a single point for propagating changes to all views using the same column. A shared column has its own design element but once inserted into a view is part of the view. A view containing a shared column is backwards compatible for access from Notes and the Web.

To create a new shared column, select Columns under Shared Code. Click New Shared Column or choose Create - Design - Shared Column. You can also copy and paste an existing Shared Column design element.

To create a new shared column based on the design of an existing column in a view, open the view, select the column, and choose Create - Copy As Shared Column. This action creates a new shared column and leaves the existing view column as is.

The Shared Column design element has the same appearance and column properties as an unshared column in a view.

In addition, the Shared Column design element has properties specific to shared columns. The Shared Column properties box specifies the name of the shared column (required), an alias (optional), and a comment (optional).

To use a shared column in a view, open the view and choose Create - Insert Shared Column or Create - Append Shared Column. Select the shared column from the displayed list. Check the Use Formula Only box if you want to override the shared column display properties, such as font and column alignment, in the view. Leave the box unchecked to lock the display properties. The column programmatic name can always be modified even if the Use Formula Only box is not checked, but you should change this name only if it duplicates the programmatic name of another column in the view. You cannot modify the column value (formula).

To see the names of the views using a shared column, select the shared column in Columns under Shared Code and click Who is using this Shared Column.

To edit a shared column, double-click the Shared Column design element in Columns under Shared Code. You can also edit a shared column by selecting it in a view and choosing Design - Edit Shared Column.

When an existing shared column is edited and saved, all views containing the column are updated. These views are resaved with the current user ID. Where Use Formula Only is checked, only the formula is updated.

To delete a shared column, select the Shared Column design element. Press Delete or choose Edit - Delete. When a shared column is deleted, the shared column is changed to an unshared column in all views containing the column.

Shared columns may be used in DB2 Query views.

Shared columns, like shared fields, are not multilingual elements.

## Domino Web Access Help

Domino Web Access

### Certificate information stored in Contact document

Certificate information for each contact is stored on the Certificates tab, and can include their Notes certified public key, Notes flat name key, and their Internet certificate. You use certificates to encrypt messages that you send. For example, when you send an encrypted message, you encrypt the message with the recipient's public key. If you want to send someone encrypted mail, but you don't have that person's Notes public key, have them send you a message that is signed using their Notes Private key. Then, when you receive the message, add the name to your Contacts. When you add a sender to Contacts, the e-mail address and either the Notes Certificate or the Internet Certificate used to sign the message is automatically included when the Contact document is created.

For more information about how Domino Web Access uses certificates, see the help topics:

- How Domino Web Access Uses Public and Private Keys
- Add Sender to Contacts

Domino Web Access

### Errata: Changing Calendar Display Preferences

In the topic "Changing Calendar Display Preferences" the Calendar Display Options include duplicate text. Use these options instead:

#### Calendar Display Options

You can set the following Calendar display options:

- **When displaying days of the week in Calendar views** -- select the starting day of the week for each of the Calendar views.
- **When displaying times in Calendar view** -- select the time to start displaying times in your Calendar, and select the time to stop displaying times in your Calendar.
- **Display 24 hours** -- Check this (default) to see 24 hours displayed in your Calendar.
- **Each Calendar time slot lasts** -- Set time slots to 15, 30, or 60 minutes (the default is 60).
- **Disable drag and drop and in-place editing** -- If you check this option you will not be able to drag a Calendar entry to a time slot, or edit a Calendar entry in the Calendar view. On lower end machines, disabling this feature may improve performance.

Domino Web Access

### Filter mail using blacklists and whitelists

The following information was inadvertently omitted from the Domino Web Access help.

To help filter out unwanted e-mail, the Domino server can be configured to use blacklists to specify hosts or domains responsible for sending unwanted e-mail to you. When blacklist filters are enabled, any e-mail from a host on the blacklist is tagged. Although you cannot see the tag, your Notes mail system recognizes it and you can create a mail rule to act on messages that have a blacklist tag. For example, you may want to create a rule that sends all blacklist tagged e-mails to a folder called SPAM:

WHEN Blacklist contains SpamCop THEN move to folder SPAM

In addition to blacklists, Domino also tags e-mails with whitelist tags. A whitelist is a list of exceptions to hosts or domains on a blacklist. To take advantage of the Domino server's whitelist, you can set a mail rule to act on messages that have a whitelist tag.

If blacklist and whitelist filters are enabled on the Domino server, your Domino Administrator can supply you with the list of names on the lists. You can also find this information in the Domino Directory. To view the lists, open the Domino Directory (NAMES.NSF) and expand Configurations. Open the server Configurations document - Router/SMTP - Restrictions and controls - SMTP Inbound Controls. The lists display under the DNS Blacklist Filters and DNS Whitelist Filters.

Domino Web Access

**Valid internet certificate cannot be located**

If you get a "Valid internet certificate cannot be located" error message, it may be that an Internet certificate does not exist, or an Internet certificate exists but the cross certificate does not exist.



## Chapter 5 - Notices and Trademarks

### Licensing information

Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

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Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

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Domino Administrator Client, Notes Client, Domino Designer, Domino Server, Domino Web Access, Domino Access for Outlook, Domino Offline Services (DOLS), Domino for z/OS, Domino for i5/OS

### **DNS Resolver software information**

DNS Resolver

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### Independent JPEG Group software information

The Independent JPEG Group's JPEG software

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 README for release 6 of 2-Aug-95  
 =====

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Luis Ortiz, Jim Boucher, Lee Crocker, Julian Minguillon, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

### DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
RELATED SOFTWARE	Other stuff you should get.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc	How to configure and install the IJG software.
usage.doc	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	UNIX-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.doc	Overview of the JPEG library's internal structure.
filelist.doc	Road map of IJG files.
coderrules.doc	Coding style rules --- please read if you contribute code.

Please read at least the files `install.doc` and `usage.doc`. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you

have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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The configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

WARNING: Unisys has begun to enforce their patent on LZW compression against GIF encoders and decoders. You will need a license from Unisys to use the included rdgif.c or wrgif.c files in a commercial or shareware application. At this time, Unisys is not enforcing their patent against freeware, so distribution of this package remains legal. However, we intend to remove GIF support from the IJG package as soon as a suitable replacement format becomes reasonably popular.

We are required to state that:

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## REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",  
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp.uu.net, graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson, published by M&T Books (Redwood City, CA), 1991, ISBN 1-55851-216-0. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the US, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document number ISO/IEC IS 10918-1. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document number ISO/IEC IS 10918-2.

Extensions to the original JPEG standard are defined in Part 3, a new ISO document. Part 3 is undergoing ISO balloting and is expected to be approved by the end of 1995. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available at ftp.uu.net, file graphics/jpeg/jfif.ps.gz. It can also be obtained by e-mail from the C-Cube mail server, netlib@c3.pla.ca.us. Send the message "send jfif\_ps from jpeg" to the server to obtain the JFIF document; send the message "help" if you have trouble.

The TIFF 6.0 file format specification can be obtained by FTP from sgi.com (192.48.153.1), file graphics/tiff/TIFF6.ps.Z; or you can order a printed copy from Aldus Corp. at (206) 628-6593. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from sgi.com or from ftp.uu.net:/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from sgi.com:/graphics/tiff/.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as graphics/jpeg/jpegsrc.v6.tar.gz. If you are on the Internet, you can retrieve files from ftp.uu.net by standard anonymous FTP. If you don't have FTP access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files; in particular, you can probably find a copy at any site that archives comp.sources.misc submissions. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives ([ftp.coast.net:/SimTel/msdos/graphics/](ftp://coast.net:/SimTel/msdos/graphics/)), or on CompuServe in the GRAPHSSUPPORT forum (GO GRAPHSSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups [comp.graphics](mailto:comp.graphics), [news.answers](mailto:news.answers), and other groups. You can always obtain the latest version from the [news.answers](mailto:news.answers) archive at [rtfm.mit.edu](http://rtfm.mit.edu). By FTP, fetch [/pub/usenet/news.answers/jpeg-faq/part1](ftp://pub.usenet/news.answers/jpeg-faq/part1) and [.../part2](ftp://pub.usenet/news.answers/jpeg-faq/part2). If you don't have FTP, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

```
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
```

#### RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a UNIX machine, we highly recommend Jef Poskanzer's free PBMPLUS image software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats. You can obtain this package by FTP from [ftp.x.org](ftp://x.org) ([contrib/pbmplus\\*.tar.Z](ftp://x.org/contrib/pbmplus*.tar.Z)) or [ftp.ee.lbl.gov](ftp://ee.lbl.gov) ([pbmplus\\*.tar.Z](ftp://ee.lbl.gov/pbmplus*.tar.Z)). There is also a newer update of this package called NETPBM, available from [wustl.edu](http://wustl.edu) under directory [/graphics/graphics/packages/NetPBM/](ftp://wustl.edu/graphics/graphics/packages/NetPBM/). Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from [havefun.stanford.edu](http://havefun.stanford.edu) in directory [pub/jpeg](ftp://havefun.stanford.edu/pub/jpeg). This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not.

#### FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.

We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO  
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In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

Tuning the software for better behavior at low quality/high compression settings is also of interest. The current method for scaling the quantization tables is known not to be very good at low Q values.

As always, speeding things up is high on our priority list.

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Reg Exp Parser

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### **SNIA/CIMOM information**

The Program contains code which is derived from the Storage Network Industry Association's CIMOM code ("the Modified CIMOM Code"). The Modified CIMOM Code is available in source code form and may be obtained upon written request to the following address:

Autonomic Management Engine Development  
 IBM Corp  
 510/8PIA  
 PO Box 12195  
 RTP, NC 27709

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### **zlib software information**

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.1.4, March 11th, 2002

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## Notices

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