Domino R6 and iSeries
Domino R6 Overview

New major release of Domino
- Launched at Lotusphere in January 2002, to be shipped 3Q2002

Built for mission critical deployments and for the Web
- Improved performance / scalability / reliability
- Web application platform: Service Provider Hosting Features

Easy to manage and integrate in environment
- Easier to deploy and manage

Improved usability

Extend client strength in mobility

Enriched security

Enriched application environment
Notes: Domino R6 Overview

This presentation focuses primarily on Domino R6 functions across all supported operating systems with some iSeries specific items. With the release of Domino 6, Lotus continues to play a major role in the e-business revolution. To meet the challenges of business globalization, frequent mergers and acquisitions, and the increasing demand for Web-based business tools, Lotus has combined both evolution and innovation in its latest upgrade of Domino server technology. The features in Domino 6 build on the features in Release 5 to address rapidly changing industry trends and meet their challenges head on. It focuses on 5 key areas to ensure that you can continue to work effectively and efficiently but now made even easier by:

- Improving ease-of-use
- Enhancing replication and mobility features
- Continuing our focus on collaboration
- Enhancing performance
- Streamlining deployment and administration

Domino 6 innovations expand the capabilities of the Domino messaging and collaboration server to maximize the value of Domino within your existing infrastructure and provide robust support for your Notes messaging and Web applications, whether your users are working with the Notes client, a Web browser, or a mobile device.

Improvements in manageability will drastically reduce cost of ownership, ease administration and leverage client mobility:

- Roaming user support: the new roaming user features of Domino 6 allow you to set up users so that their personal information (such as Welcome Page, Bookmarks, address book, preferences, journal, and ID file) is stored on a server and replicated to whatever PC they happen to be using.
- Automatic client upgrades with Smart Upgrade: a new feature of Domino 6, Smart Update, lets you install upgrades at the desktop level with the push of a button.

Domino 6 includes a number of enhancements that improve server scalability and performance. Server startup and server performance are optimized, and overall availability and recovery are improved by:

- Transaction logging of key views, which assures that you won’t need to rebuild those views should the server crash.
- The ability to log information about the availability index, which reports back the health of the server. This index more consistently indicates the state of the clustered server and makes cluster load balancing easier to administer.

Domino 6 provides support for new security standards. For example: support for the PKCS#11 standard for Smartcards or support for the S/MIME v3 feature, S/MIME capabilities.
**Domino R6 Key Features**

- Policy based management
- Multi-user & Roaming user
- Delegated server administration
- ASP administration (hosting)
- Deploy Corporate "Welcome pages"
- Auto upgrade - Client version reporting
- Java console
- Server Health monitoring (Tivoli)
- Enhanced logging
- LDAP directory enhanced
- Active directory synchronization
- Mail rules, RBL, enhanced IMAP, quota notification, extension manager hooks SMTP router
Notes: Domino R6 Key Features

Domino 6 is a major new release. The scope of this presentation does not permit to go into the details all the new features of the Domino 6 release, and comment on the differentiators with the release 5 of Domino.
We recommend you to visit the Domino 6 website at http://www.lotus.com/LDD/notes6

There are 3 documents that provide an excellent and concise overview of Domino 6, and they are all three available on the previously referenced website:
Domino R6 for iSeries requirements

New Product ID: 5733-LD6

- Only marketed via IBM SW group / Passport contract
- No longer part of iSeries e-Configurator

Single release notes document for all Domino platforms

- Specific chapter for OS/400
- Updates posted also on notes.net website
- Removal of OS/400 specific release notes READAS4.NSF

Manuals:

- Installing and Managing Domino 6 for iSeries
- Application development for Domino 6 for iSeries
- No free hardcopy documentation
Notes: Domino 6 for iSeries requirements

For Domino 6 for iSeries, the product has the new Product ID of 5733-LD6. It is solely distributed via the IBM SW group/Passport contract channel and can no longer be configured in the iSeries e-Configurator.

Customers are not required to delete the prior 5769-LNT prior to upgrade. The pre-install exit program for 5733-LD6 will delete all of the 5769-LNT product options but not the *BASE option. The system save/restore component will automatically update the *BASE option to be 5733-LD6 upon completion of RSTLICPGM.

The library used for this new product remains the same as the 5769-LNT product, QNOTES.

For R5, Domino for AS/400 ships an OS/400-specific set of release notes. The release notes are used to communicate more up to date information than what goes into the formal publications. The release notes are made available in both .nsf and .pdf form and these are included in the root of the CD as readas4.nsf and readas4.pdf. The release notes are also made available on the Internet at Notes.net. These release notes are English-only for all languages except for Japan which elects to translate theirs. Lotus creates and ships a separate set of release notes for the core platforms (win32, Linux and UNIX). These release notes do not include OS/400 or OS/390 topics.

For 6.0, the Domino for iSeries product will no longer ship a set of release notes that are separate from the core platforms. Lotus has agreed to maintain a single release notes image for all supported Domino platforms. However, rather than totally integrating the release notes topics across all chapters of the core release notes, Lotus will provide the OS/400 and os/390 topics each within their own chapters. The iSeries and zSeries teams will continue to develop their OS-specific content on their own schedules and will deliver the completely edited content to Lotus when ready. Lotus will then reprocess the core .pdf and .nsf release note files to include the iSeries and zSeries chapters. Lotus will then deliver the content back to the zSeries and iSeries teams for inclusion on their respective CDs and Lotus will also re-post the updated release notes to the notes.net site

Also for 6.0, the publication will be divided into two documents, an installing and managing publication and a publication on application development for the Domino for iSeries server. Also, in 6.0, Lotus no longer ships hardcopy documentation with the product. Hardcopy can still be ordered, but, for a fee. The application development information that currently exists in the R5 iSeries book will removed for 6.0 and ONLY made available as a web deliverable.
Installation

Installation and setup changes

- LODRUN still available and updated
- Auto-delete of 5769-LNT
  - Uses QNOTES Lib
- National languages dependencies
  - Use of OS/400 locales
  - Requires #2924

InstallShield support now available

- Common setup interface for all Domino platforms
  - Platform specific function when necessary
- Based on iSeries Domino R5 EZ-Setup wizard
- Can be invoked from:
  - Operations Navigator (V5R1) or iSeries Navigator (V5R2)
  - EZ-Setup
  - Java Application (domwzd.exe in root of the code CD)
Notes: Installation

Customers are not required to delete the prior 5769-LNT prior to upgrade. The pre-install exit program for 5733-LD6 will delete all of the 5769-LNT product options but not the *BASE option. The system save/restore component will automatically update the *BASE option to be 5733-LD6 upon completion of RSTLICPGM. The library used for this new product remains the same as the 5769-LNT product, QNOTES.

Domino 6 for iSeries will bring changes at installation and at setup time. LODRUN is still available and has been updated to reflect the Domino 6 installation parameters.

InstallShield Support is a Java Based installer, consistent to all Domino 6 platforms. Changes in the product install options contain:

- Removed functions such as C++ API and Toolkit now available as a web downloadable feature
- Moved functions such as the Operations Navigator features or the single sign-on option
- Changed functions such as C API now part of the base option installation.

A new Domino setup wizard is introduced in 6.0 and it replaces the R5 web-based Domino setup wizard. The 6.0 wizard is written in Java and no longer requires the special slim-downed version of HTTP be installed on the server. This new wizard is a common Java source part implementation for all 6.0 platforms, although, the common part does include some minor platform-unique code and panels.
Installation Options

Product Install Options:

- **Removed:**
  - C++ API and Toolkit (available as web download)
  - HT API (no longer supported)
  - LSX toolkit (available as web download)
  - Advanced services (controlled by license agreement)
  - Single logon (available as web download)

- **Moved:**
  - Option 1 features
  - Operations Navigator plug-in moved to *Base option

- **Changed:**
  - C API is now option 1
  - Previously option 3
Notes: Installation Options

Removal of Single Signon
The single signon feature (which allows a Windows Notes user to signon one time for their Notes, Windows and OS/400 sessions) is now part of the *BASE option (it is in option 1 of 5769-LNT, R5). It continues to exist as a Notes database that contains the client side exe file and necessary documentation. It may also be made available as a web download.

Removal of the advanced service option
The advanced services option has been removed as a separate option. The features encompassed by this option in R5 are clustering, billing and partitioning. These features are still supported in the 6.0 version of the product and use of these features is now controlled by product licensing, and defined at LODRUN time

Removal of Appdev.nsf from CD
In Domino R5, an Appdev.nsf file was shipped on the CD and contained application development header files. With Domino 6, this practice is no longer be continued. Those files should now be obtained from the Domino for iSeries web site http://www.iseries.ibm.com/domino

Relocation of Operations Navigator Plug-in
In R5, the Operations Navigator plug-in for Domino is in option 1 of the product, which includes other OS/400 integration features. Since Operations Navigator is considered the strategic GUI for OS/400, it has been decided that this function should now be included with the *BASE option of the Domino for iSeries 6.0 product.
Installation Options ...

Removed features:

- Integration via AnyMail/MSF
  Instead: Use separate TCP/IP interfaces for Domino SMTP and OS/400 SMTP

- Support for Domino under IBM HTTP server (original)
  Instead: Much improved support coming for HTTP server (Powered by Apache)

- Directory Synchronization
  Instead: Use Lotus Domino 6 directory synchronization (future MR)

No Translation of Install & Setup Screens or "Green Screen"

- Instead: iSeries Navigator still translated and updated via Language Packs

No LPP or preload support

- Instead: must use Lotus channels
Notes: Installation Options ...

Removal of MSF / AnyMail integration: separate TCP/IP interfaces must now be used for Domino SMTP and OS/400 SMTP

With Domino Version 5, Domino for iSeries ships a plug-in which allows the OS/400 HTTP stack to be used instead of the Domino HTTP stack. For 6.0, Domino for iSeries continues to ship a plug-in which allows configuration of Domino to use an OS/400 stack, but, only the Apache HTTP stack, not the original HTTP stack.

Removal of Directory Sync: with OV/400 support being removed from OS/400 Version 5 release 1 and subsequent releases, the value of directory synchronization drops. As such, the Directory synchronization function is not included with Domino 6 for iSeries

In some countries Domino preload support was available for Domino Version 5. This service is no longer available.

There will be NO translation of the Install/Setup screens or 5250 "green screens. These screens will solely be available in English. However, the Operations navigator GUI interface is translated and updated. Translations are part of the language packs included with the code.
Server Setup

New Java-based Server Setup Wizard

- Common setup interface for all Domino platforms
- Platform-specific function where necessary
- Based on iSeries Domino R5 EZ-Setup wizard
- invokable from:
  - Operations Navigator
  - EZ-Setup
  - Java application (domwzd.exe in root of CD)
- Record/Playback mode

Replaces R5 Web-based setup wizard (*HTTPSETUP)

Replaces R5 EZ-Setup wizard

CFGDOMSVR still supported (and updated)
Notes: Server Setup

Although the GUI interface of the Java based setup wizard will certainly be more used, the CFGDOMSVR CL command is still available and has been updated to reflect the Domino 6 installation parameters.

A new Domino setup wizard is introduced in 6.0 and it replaces the R5 web-based Domino setup wizard. The setupwe4.nsf file is not shipped in 6.0 (the following document details the changes done to remove the web-based setup from 6.0: ). The 6.0 wizard is written in Java and no longer requires the special slim-downed version of HTTP be installed on the server. This new wizard is a common Java source part implementation for all 6.0 platforms, although, the common part does include some minor platform-unique code and panels. For example, there are some unique panels for iSeries.

The new setup wizard consists of files called domwzd.jar and domwzd.exe. Domwzd.exe resides in the root directory of the Domino for iSeries 6.0 CD. The domwzd.jar file resides in the domwzd directory off the root of the Domino for iSeries 6.0 CD (this allows continued use with EZsetup). The domwzd.exe file consists of the domwzd.jar file plus the required JRE. This allows server setup to be run from a supported Windows client version without the user needing to install the required JRE. However, since Client Access and EZsetup include the required JRE, they can get by with using the domwzd.jar file. In fact, by naming the 6.0 server setup wizard jar file to the same name (domwzd.jar) and putting it in the same directory (domwzd) as used by the R5 EZ setup wizard jar file, EZ setup in V5R1 can support both the 6.0 CD and R5 CD's without any new V5R1 changes. If the user puts in an R5 Domino for iSeries CD, they will use the R5 version of the EZsetup wizard. If the user puts in an 6.0 Domino for iSeries CD, they will use the 6.0 version of the EZ Setup wizard. However, since the first several panels for EZ Setup of Domino are actually part of Client Access, they cannot be changed for V5R1, so the panels will continue to direct the user to insert the Domino CD into the iSeries server CD-ROM device. But, these same panels have been changed in V5R2 to handle both cases. One difference with the 6.0 approach is that the EZ Setup code will now use the InstallShield installer interface rather than the LODRUN interface.

The new Domino setup wizard utilizes the OS/400 CFGDOMSVR command to actually submit the setup request. CFGDOMSVR in turn calls the Domino setup routine which is used by all Domino platforms. Server changes have been made to the CFGDOMSVR command in 6.0 in order to accommodate new setup wizard options.
OS/400 V5R2 Related Enhancements

Teraspace support - allows greater than 16 MB "storage spaces" to be used by Domino

Domino statistics gathered with OS/400 Collection Services
- When active, R6 enables Collection Services to collect a set of "Domino statistics"
- OS/400 IFS file storage options
- Allows less system memory for caching of .NSF files by OS/400
  - *NORMAL, *MINIMUM, *DYNAMIC

Domino running under IBM HTTP server powered by Apache
- Allows Domino users to benefit from IHS Apache features
  - Tomcat, Cryptocard, hot backup, SSL/TLS, DCM, etc.
- Plug-in shipped with Domino
  - Run on same or different machine
- OS/400 V5R1 or later support later this year via PTF

Application Server Provider (ASP) support
**Notes: OS/400 V5R2 Related Enhancements**

**Teraspace support**
The Domino for iSeries 6.0 version is now built teraspace-enabled. Essentially, this support allows larger storage spaces (>16MB) to be allocated on the iSeries. All compiles are now done with the teraspace compiler switch on. Also, the Domino HTTP stack has been modified to use teraspace functions so that the 16MB attachment limit is removed.

**Collection Services**
With OS/400 V5R2, Domino 6.0 supports the OS/400 Collection Services feature. It is actually controlled by the end user through the collection services GUI - the user selects to collect Domino statistics and how often that it triggers your probe being called which causes then the Addin task to do the actual collecting.

The COLSRV400 is added to the ServerTasks= statement in the notes.ini on all existing servers at upgrade time. The COLSRV400 addin checks at startup time if it needs to register the probe (in case the user upgraded from V5R1 to V5R2). If V5R2 or later, register the probe. For newly created servers (CFGDOMSVR time), the COLSRV400 task is always added.

See the detailed Performance presentation for details on the collected iSeries Domino performance data.

**Domino can run under HTTP Server powered by Apache**
Domino 6 for iSeries continues to ship a plug-in which allows configuration of Domino to use an OS/400 stack. However, with Domino 6 for iSeries, only the Apache HTTP stack is available, and no longer the original HTTP stack. Thus, existing users of the OS/400 HTTP stack on R5 will need to modify their configuration when moving to 6.0 so that the Apache HTTP server is used.

**IFS Memory reduction**
A new IFS file attribute will be added to OS/400 V5R2. This attribute will allow you to adjust how much memory the OS/400 IFS function uses for open files to cache data across processes. So far applications like Domino that do their own sharing of data for the .nsf files did not benefit from the OS/400 IFS function so it ended up wasting memory.

**ASP**
It allows the user to specify whether the server is ASP enabled (application service provider, i.e., multi-organizational support on one server). Lotus is adding a specific field to the setup wizard screens or wizards, and this applies to first and additional servers. It is NOT a changeable field (that is, you cannot convert a server from ASP to non-ASP or vice versa).
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