Increase efficiency with a feature-rich messaging and collaboration platform

When you’re faced with shrinking budgets, smaller staffs and rapid changes in your business environment, you must find ways to leverage existing application and IT assets to help reduce costs. And to help increase responsiveness and productivity, you need to facilitate collaboration among employees, customers, partners and suppliers.

Take your collaboration capabilities far beyond messaging. IBM Lotus® Domino® server software includes integrated messaging and directory services that provide world-class e-mail, calendar and scheduling capabilities, discussion databases and address books in a unified, easy-to-manage architecture. With Lotus Domino software you can build and run collaborative solutions — such as project management tracking and customer support processes — that can help your organization be more responsive and productive.

Version 7 of Lotus Domino software simplifies administration and expands support for industry standards, so you can implement and administer collaborative applications more efficiently. Enhanced performance and improved server scalability mean you can deploy messaging and collaboration solutions using fewer resources. And advanced security and mail management features can help you control information access and limit unwanted mail.

Extend the reach of applications

Continue to leverage your investments in infrastructure and skills, while extending your collaboration solutions. Lotus Domino software is known for backward compatibility and smooth upgrades. Greater support for open standards and Web services in Version 7 lets you reuse Lotus Domino application investments over a much broader domain. You can extend existing Lotus Domino applications to include Java® Platform, Enterprise Edition (Java EE) frameworks and Microsoft®.NET environments.
With Lotus Domino 7.0.2 software, you can make information in a Lotus Domino database accessible through Really Simple Syndication (RSS) services. You’ll be able to more efficiently publish frequently revised material, such as announcements, press releases, policy updates and alerts.

Other new capabilities in Version 7.0.2 allow you to use Lotus Domino software as a corporate server for Web logs (blogs)—online journals that allow users to actively collaborate with colleagues, customers and suppliers about projects, proposals or new products. You can customize the look and feel of your blog—without technical expertise or application development software—and post blog entries and comments using Lotus Notes® software or a Web browser.

By simply filling out a form, a Lotus Domino 7.0.2 software administrator can make Lotus Domino databases accessible via RSS readers and news aggregators.

**Make the most of your IT infrastructure**

Use the infrastructure you already have. With Lotus Domino software, you have a choice of hardware platforms and operating systems, including a number of 64-bit options. This gives you the flexibility to deploy your messaging and collaboration infrastructure without overhauling your entire environment and without becoming dependent on specific hardware or software. You also can choose the client access that is right for your infrastructure environment and needs. In addition to the Lotus Notes client, you can use a Web browser client, an Internet client or a supported mobile device. And you can even opt to use Microsoft, Linux® or Apple Macintosh workstations.
Support more users with improved performance and scalability

Typically with Lotus Domino 7 software, you can support more users with fewer server and network resources. A Lotus Domino 7 server can use up to 25 percent fewer CPU resources than a Lotus Domino 6.5 server, and Lotus Domino 7 software can support up to 80 percent more NotesBench mail users on the same server hardware—as indicated by performance metrics from the IBM development lab. If you can consolidate more users onto the same hardware, you can often reduce your total cost of ownership in both hardware costs per user and administration costs. You can also get a performance boost from enhanced support of Lightweight Directory Access Protocol (LDAP) in Lotus Domino 7 software.

Save costs by efficiently managing network bandwidth utilization and storage requirements. The network compression and streaming replication capabilities of Lotus Domino software can help reduce the amount of data transmitted over your network. Native attachment compression and shared design elements can help reduce redundant storage requirements.

Facilitate administration and minimize software deployment costs

Server downtime costs money and hinders productivity. You need a solid server infrastructure that enables reliable access to the applications and information your employees need to do their jobs effectively. Version 7 offers new diagnostic tools and autonomous capabilities to complement high-availability features such as advanced clustering.

Lotus Domino software includes powerful tools to manage your infrastructure from a central location. By automating repetitive administration tasks, simplifying user management and improving client deployment and configuration, you can save valuable time and focus on more critical tasks. Version 7 offers some notable enhancements, including those described here.

Lotus Domino domain monitoring

Simplify administration and reduce monitoring and troubleshooting costs. Lotus Domino 7 software offers a new feature called Lotus Domino domain monitoring. This customizable tool automates problem determination and analysis to help administrators assess the overall health of Lotus Domino servers in the enterprise and to locate problems that may need attention.

IBM Lotus Domino server software options


IBM Lotus Domino software client access options

- IBM Lotus Notes client software on Microsoft Windows, Macintosh or Linux desktops
- Web browsers running on Microsoft Windows, Linux or Macintosh systems (using IBM Lotus Domino Web Access software)
- Microsoft Outlook software (using IBM Lotus Domino Access for Microsoft Outlook software)
- Internet clients based on Internet Message Access Protocol (IMAP) or Post Office Protocol (POP) with an IBM Lotus Domino WebMail client access license
- Supported mobile devices
When a problem is reported, the Lotus Domino domain monitoring feature suggests probable causes and provides possible solutions. It also displays any correlated events, letting administrators see whether the same problem has been reported on other servers. Using this tool, administrators can quickly resolve issues before they cause trouble, potentially saving time and money.

**Lotus Domino activity trends**
Understand server health and predict future software and hardware needs. Lotus Domino 7 software incorporates an activity trends feature that was formerly delivered as a separate product, IBM Tivoli® Analyzer for Lotus Domino software. This software technology provides data and statistics about user activity—vital information for administrators. And workload balancing and change management tools help keep your infrastructure running optimally.

The Lotus Domino domain monitoring feature automates server monitoring and problem determination, giving administrators the opportunity to quickly identify and rectify issues before they can cause harm.

With its robust and predictive analysis tools, the Lotus Domino activity trends feature provides administrators with valuable data and statistics about user activity.
**Policy-based administration**

Easily set standards and enforce IT policies across your organization with Lotus Domino policy-based administration. Lotus Domino 7 software includes the following improvements:

- **Administrators have the option to lock down Lotus Notes desktop settings.** Some companies choose to prevent users from changing desktop settings in order to limit costs and time associated with service support calls.
- **Policies can be extended to include mail and calendar settings stored in user mail files.**

**IBM Lotus Notes Smart Upgrade feature**

Centrally manage the installation, configuration and status of a user’s machine, without visiting the desktop, using the IBM Lotus Notes Smart Upgrade feature. Administrators are notified through a mail-in database whether the Lotus Notes software installation or upgrade was successful, delayed or unsuccessful.

Enhancements in Lotus Domino 7 software include server cluster failover to switch the upgrade function to another server if the first is unavailable; a governor feature to limit the number of upgrades per hour; and reporting capabilities to identify which users have upgraded to which versions.

A utility provided with Lotus Notes and Domino 7.0.2 software allows administrators to prepare client installation kits that prepackage a Microsoft Windows account with administrator privileges. Using this utility, the Lotus Notes Smart Upgrade feature will be able to complete an upgrade even if the user desktop is locked down to prevent the installation of additional software.

**Extend Lotus Domino applications with Web services and open standards**

Lotus Domino software supports a wide range of open standards, enabling you to leverage the skills of your development teams, extend the value of your existing applications and facilitate the development and deployment of new solutions:

- JavaServer Page (JSP) tags
- Java application programming interfaces (APIs)
- JavaScript language
- Extensible Markup Language (XML)
- Microsoft Component Object Model (COM)

IBM Lotus Notes and Lotus Domino 7 software also offers native support for Web services, including a Web services hosting environment based on Simple Object Access Protocol (SOAP). The IBM Lotus Domino Designer® 7 development tool provides complementary enhancements such as a Web services design element and built-in support for Web Services Description Language (WSDL). Additional application development enhancements in Version 7.0.2 include:

- Lotus Domino Extensible Markup Language (DXL)—support for outlines, shared columns, shared files and style sheets.
- Support for Java Development Kit (JDK) 1.4.2 SR4.
- HTML API—to convert Lotus Notes forms, views and documents to HTML.
- MIME API—to directly manipulate data based on Multipurpose Internet Mail Extensions (MIME).

The combination of these capabilities can help you easily extend and integrate your applications with other systems—often with less time and effort, and with existing skills.
Lotus Domino 7.0.2 software extends the interoperability of mail as well as applications. When a Microsoft Exchange server sends a rich text message, Lotus Domino 7.0.2 software converts the Microsoft format called Transport Neutral Encapsulation Format (TNEF) into readable form. A Lotus Notes user can then read a rich text message from a Microsoft Outlook user.

**Use IBM DB2 Universal Database software as an optional data store**

With Lotus Domino 7 software, you can use IBM DB2 Universal Database™ software as an alternative data store to Lotus Notes storage facility (NSF) on a per-database basis on Microsoft Windows and IBM AIX operating systems.

IBM DB2® software integration capabilities enable developers to build applications that blend collaborative services with structured query language (SQL)-based relational data stored in DB2 databases. Your company can consolidate its data within a common DB2 store and then integrate it with other applications, including Java EE applications. Using DB2 software as an alternative data store means you gain the following:

- **DB2 access view**—the ability to expose Lotus Domino data in a relational format in a DB2 database and to work with that data from a DB2 interface using SQL.
- **Query view**—a new type of view that uses an SQL statement to define its selection criteria. The view can include data from DB2 software-enabled Lotus Notes databases or DB2 databases.

**Leverage your Linux operating system environment**

If your company runs a Linux operating system environment, you can take advantage of the enhanced Web administration client in Lotus Domino 7 server software. The Web administration client now provides support for select Linux systems while maintaining the robust features found in previous releases.
Lotus Domino 7 software eliminates the need for a Microsoft Windows administration client in an infrastructure that has Lotus Domino server software and Lotus Domino Web Access clients all running on Linux technology. You can also run Lotus Notes 7.0.1 software natively on a Linux workstation—without using virtualization software—for a complete messaging and collaboration environment on the Linux platform.

**Protect and manage your messaging infrastructure**
You must control and protect your messaging infrastructure if you seek to provide your employees with an efficient, safe and robust collaboration platform. Lotus Domino 7 server software offers enhanced security features, including advanced security APIs and the option to use stronger encryption keys. Lotus Domino 7 software also improves Lotus Notes ID management.

With Lotus Domino 7 software, you can archive mail by date for streamlined mail management. Powerful antispam features can help you manage mass volumes of unwanted mail. And you can use private blacklists and private and public whitelists. With message disclaimers, you can add standard text at the end or beginning of every message that is sent through the Lotus Domino mail gateway.

**Extend collaboration capabilities and protect your investments**
IBM Lotus Domino 7 software can help your organization expand its collaboration capabilities while leveraging existing IT assets. With new and advanced administrative, performance and security features, Lotus Domino 7 software can help increase productivity and lower total cost of ownership. And native support for Web services, integration with IBM DB2 Universal Database software and enhanced support for industry standards can help extend the reach of rapid application development and deployment.

**For more information**
To learn more about IBM Lotus Domino 7 server software, visit:

[ibm.com/lotus/dominoo](ibm.com/lotus/dominoo)
Endnotes

1 Lotus Domino server software provides the foundation for application development (for example, Lotus connectors, objects and tags for Java programming and APIs). Use of an interactive application development environment requires the IBM Lotus Domino Designer development tool, licensed separately.

2 The tests were performed using the NotesBench R6Mail workload, defined by the table below. For more information, please visit www.notesbench.org.

<table>
<thead>
<tr>
<th>Actions every 90 minutes</th>
<th>R6Mail workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open in-box</td>
<td>6</td>
</tr>
<tr>
<td>Read message</td>
<td>30</td>
</tr>
<tr>
<td>Delete message</td>
<td>12</td>
</tr>
<tr>
<td>Add message to in-box</td>
<td>2 (50KB)</td>
</tr>
<tr>
<td>Send message to three recipients</td>
<td>1 (100KB average)</td>
</tr>
<tr>
<td>Send invitation to three recipients</td>
<td>1</td>
</tr>
<tr>
<td>Send RSVP</td>
<td>1</td>
</tr>
<tr>
<td>Close in-box</td>
<td>6</td>
</tr>
</tbody>
</table>

3 Mobile access requires separately acquired software from IBM or IBM Business Partners.

4 Support for the option to use IBM DB2 Universal Database software as an alternative data store for Lotus Domino data is currently offered solely through a limited availability program. For more information, please visit ibm.com/lotus/nsfadb2.

5 The creation of DB2 database access views and query views requires the IBM Lotus Domino Designer 7 development tool.

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