



# LotuspHERE

## Comes to You





# IBM Lotus Domino Product Roadmap

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*Your Name*

*Your Title*



# Today's agenda

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§ Domino Strategy

§ What's coming in Domino 8 ?

§ What's planned beyond Domino 8?



# Lotus Domino Strategy

## § The integrated messaging & collaboration platform of choice

- 4 Highly available & scalable messaging
- 4 Easy to build/deploy collaborative applications
- 4 Client access choices
- 4 Integrated end to end security features
- 4 Built in administration tools
- 4 Platform choices
- 4 Partner ecosystem of supporting products

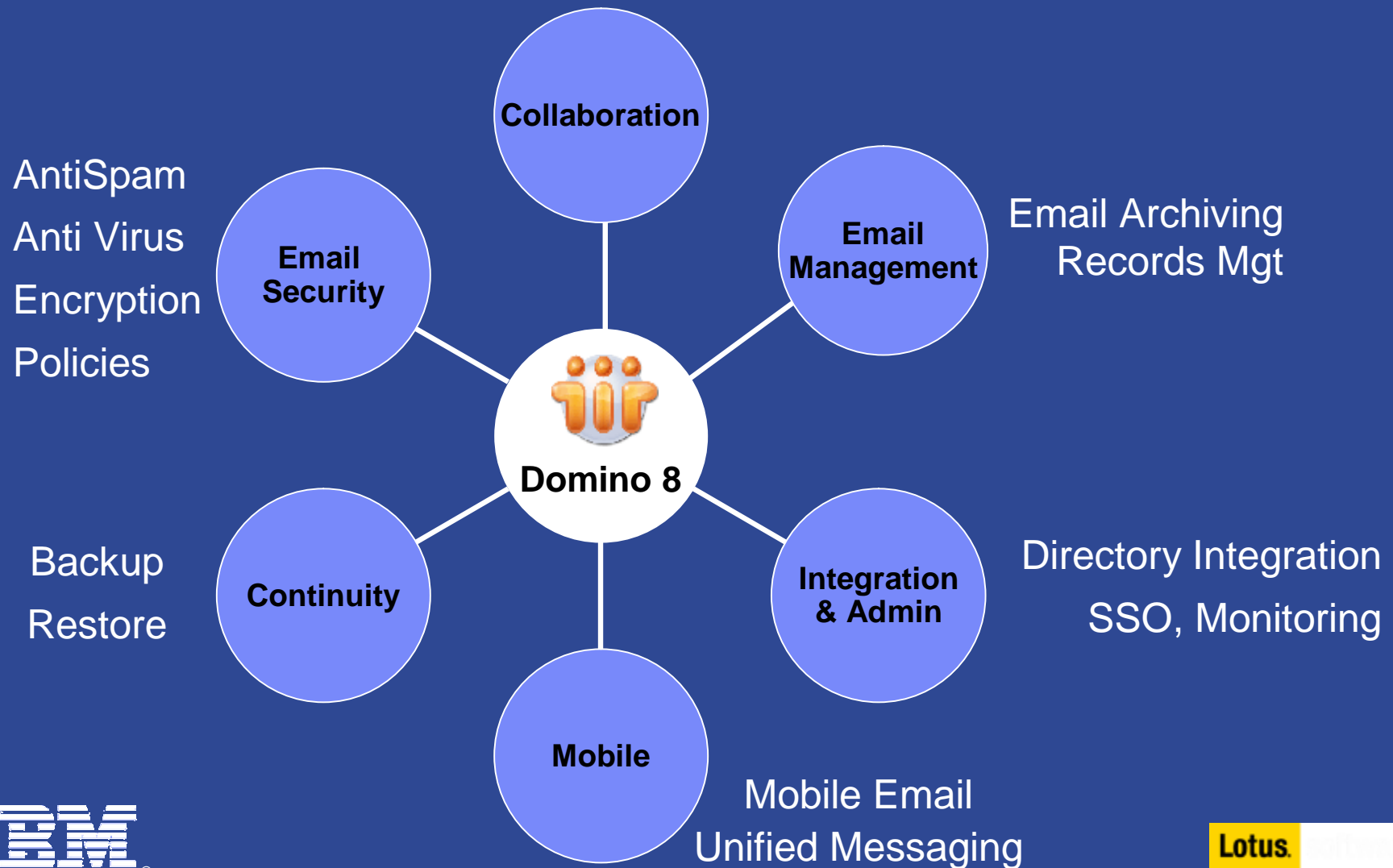
## § Investment protection

- 4 Simple to upgrade - no hardware "Rip & Replace"
- 4 Compatibility of applications - cross-version & backwards
- 4 Opportunity for significant TCO reductions with every release



# Domino Ecosystem - IBM + Business Partners

Sametime, Activities, Quickplace, Workflow, Portal



# The Future of Lotus Notes & Domino is...

**Lotus.**

Notes

+

**Lotus.**

Domino



## What's Coming in Lotus Domino 8?

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# Domino 8 will add new capabilities

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- § Improved messaging
- § Greater versatility and manageability
- § Open applications infrastructure
- § Improved efficiency & performance





# Domino 8 Themes

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§ Improved messaging

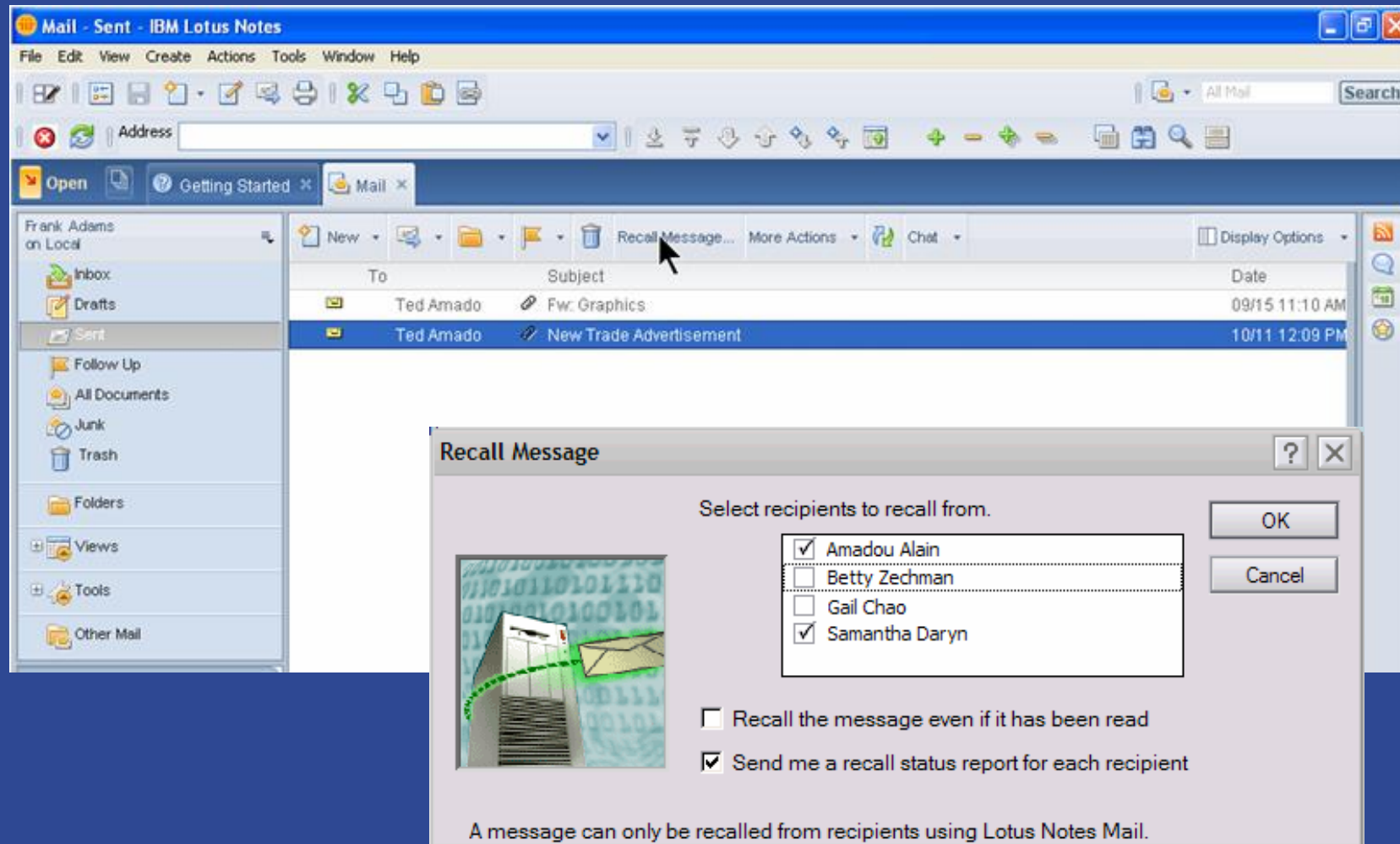
§ Greater versatility and manageability

§ Open applications infrastructure

§ Improved efficiency & performance



# Domino 8 Messaging – Message Recall



The screenshot shows the IBM Lotus Notes Mail interface. The main window displays a list of messages in the 'Sent' folder. A mouse cursor is hovering over the 'Recall Message...' button in the toolbar. A dialog box titled 'Recall Message' is open in the foreground, allowing the user to select recipients for recall.

**Recall Message**

Select recipients to recall from.

<input checked="" type="checkbox"/>	Amadou Alain
<input type="checkbox"/>	Betty Zechman
<input type="checkbox"/>	Gail Chao
<input checked="" type="checkbox"/>	Samantha Daryn

Recall the message even if it has been read  
 Send me a recall status report for each recipient

A message can only be recalled from recipients using Lotus Notes Mail.

Buttons: OK, Cancel

# Notes/Domino 8 : Improved Out of Office Service

**Out of Office - Hannover**

File Edit View Create Actions Help

Default Tahoma 11 pt B i U

Turn On Save Settings Cancel Check Calendar

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

**Leaving:** November 14, 2005 9:00 AM Local  Specify hours

**Returning:** November 18, 2005 9:00 AM Local  Mark as busy time on your free time schedule

During this time span, reply with an out-of-office notification to each sender:

One time only

Every time you receive a message

Standard Notification **Alternate Notification** Exclusions

To send an alternate out-of-office notification to certain people, or people from certain domains (such as \*@sampledomain.com\*), specify the people and domains in the To field below. Then specify the contents of the alternate notification.

**To:** [Empty field]

**Subject:** Samantha Daryn is out of the office until November 18, 2005

**Body:** I will be out of the office starting 9:00 AM on 11/14/05 and will not return until 9:00 AM on 11/18/05.

**Additional body text:** [Empty field]

# Domino 8 : Internet Mail Threads

The screenshot shows the IBM Lotus Notes Mail interface. The title bar reads "Mail - Inbox - IBM Lotus Notes". The menu bar includes "File", "Edit", "View", "Create", "Actions", "Tools", "Window", and "Help". The toolbar contains icons for "Open", "Home", "Workspace", "Contacts", "Address Book - AdvancedAccounts", "Getting Started", and "Ted Amado - Mail".

The left sidebar shows the "Ted Amado" profile and a list of folders: "Inbox", "Drafts", "Sent", "Follow Up", "All Documents", "Junk", "Trash", "Chat History", "Views", "Folders", "Andover Store", "Asia Pacific", "Corporate Arts Program", "Merchandising Initiatives", "Personnel", "Store Programs", "Europe", "Mexico & Central America", and "Toronto Area".

The main content area displays an email thread. A red box highlights the following table:

Sender	Subject
3 Messages in this Conversation: Meeting on Friday	
Ted Amado	Meeting on Friday
Betty Zechman	Okay, send me an invite.
Ted Amado	Hi Betty.

Below the table, the selected message is displayed:

**Re: Meeting on Friday**  
Betty Zechman to: TedAmado  
Default custom expiration date: 01/10/2008

Okay, send me an invite.

▼ Ted Amado | Hi Betty.

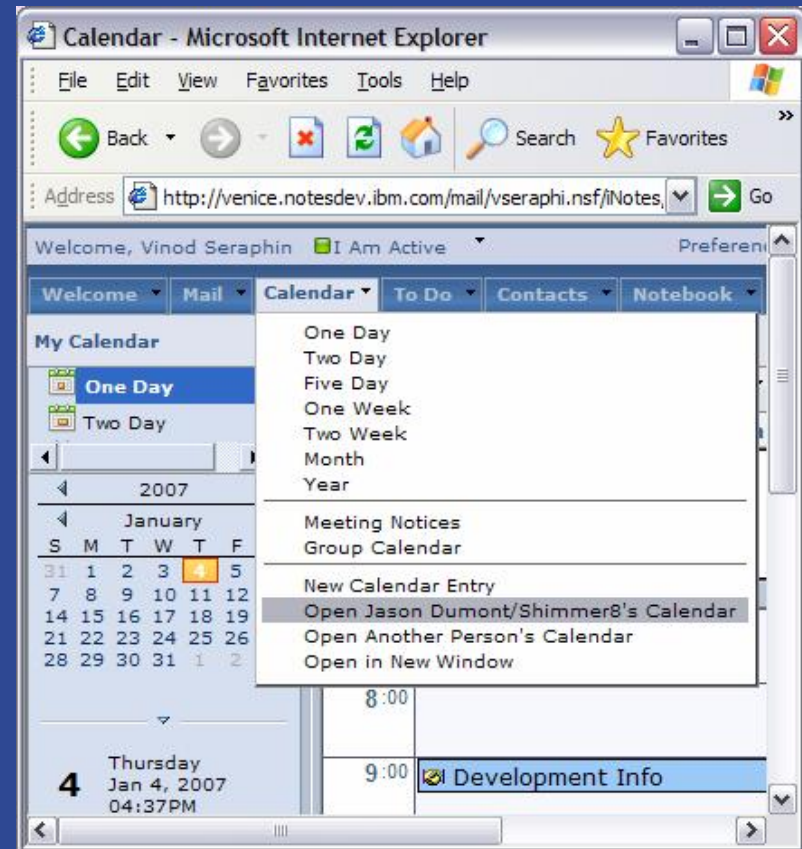
From: Ted Amado/renovations  
To: BettyZechman@renovations.notesdev.ibm.com  
Date: 01/10/2007 12:22 PM  
Subject: Meeting on Friday

Hi Betty,

Can you attend a meeting on Friday regarding the Andover store account? 10 am in CR 4.

# Domino Web Access 8.0 Highlights

- § Notes 8 style user interface
- § Performance enhancements
- § New Notes Domino 8 feature support
- § Improved Out-of-Office
- § Preview panel
- § Integrated IM Contacts List UI
- § Single, merged (mail8.ntf) mail template



# Domino 8 Themes

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§ Improved messaging

§ Greater versatility and manageability

§ Open applications infrastructure

§ Improved efficiency & performance



# Domino 8 : Administration Improvements

## § Server-managed Notes clients

- 4 Smart Upgrade supports upgrades to Notes 8
- 4 Extended policy based management
- 4 New Composite Application provisioning via Domino servers

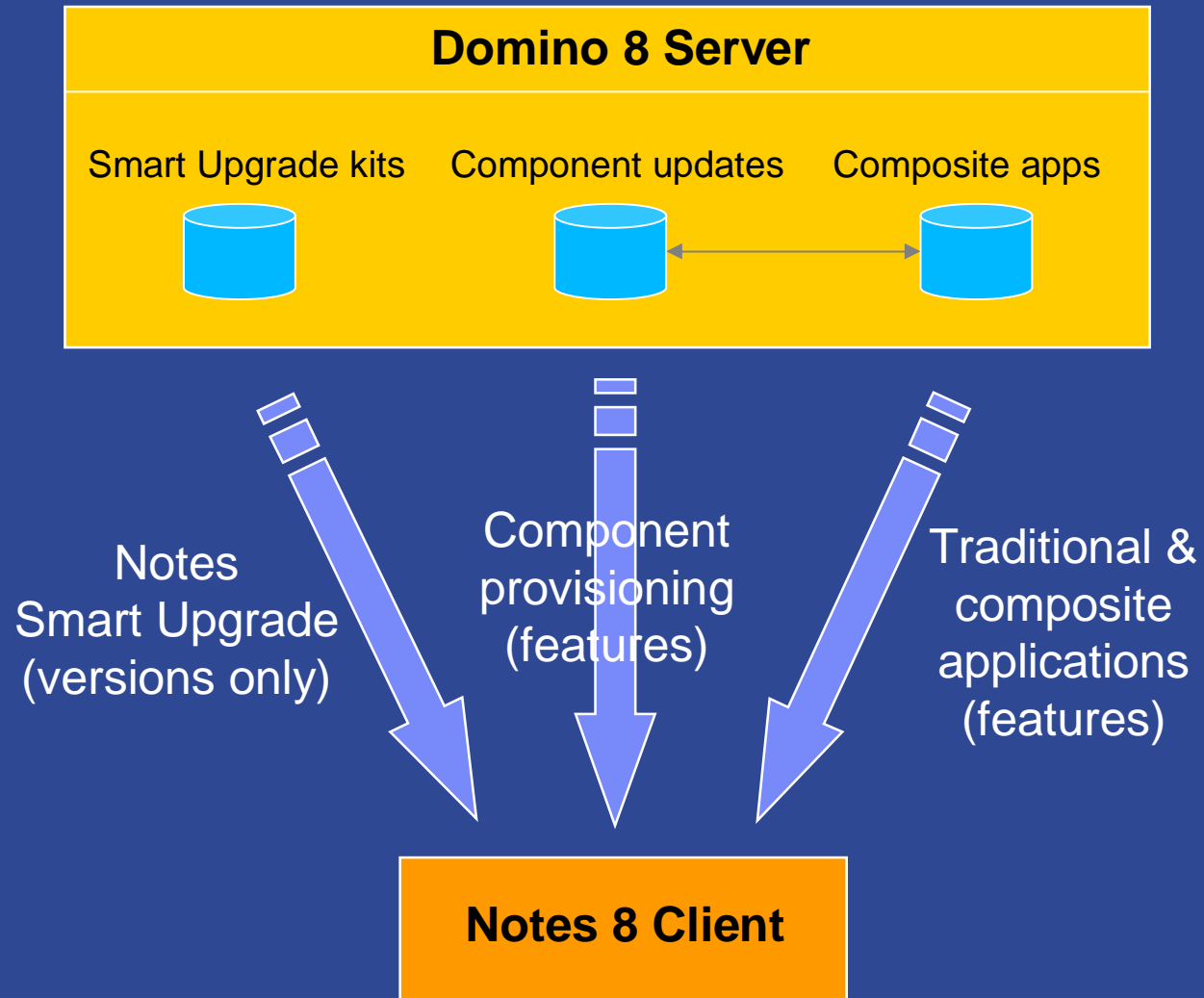
## § Domino Domain Monitoring improvements

- 4 Broader coverage of Domino and other server functionality
- 4 Improvements in probable cause analysis and recommendations
- 4 More automation of recommended solutions

## § Push Domino events to Tivoli Enterprise Console



# Domino 8 : Managed Client Overview





# Ease of Deployment: Provisioning Eclipse Update Sites in Domino 8

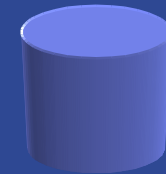


Lotus Notes 8

HTTP  
NRPC



Domino 8 Server



updatesite.nsf

Update site contains **115** features, **606** plugins, **44** fragments. Last updated **Friday, January 05, 2007 at 01:25 PM**

Category	Feature	ID	Version
Eclipse.org			
C and C++ Development			
	Eclipse C/C++ Development Tools	org.eclipse.cdt	3.1.0.20I
Charting and Reporting			
	Eclipse BIRT Report Designer Framework	org.eclipse.birt	2.1.0.N2
Database Development			
	Data Tools Platform Connectivity	org.eclipse.datatools.connectivity.feature	0.9.0.20I
	Data Tools Platform Open Data Access Designer	org.eclipse.datatools.connectivity.oda.desig	0.9.0.20I
	Data Tools Platform Open Data Access Runtime	org.eclipse.datatools.connectivity.oda.featu	0.9.0.20I
	Data Tools Platform Enablement	org.eclipse.datatools.enablement.feature	0.9.0.20I
	Data Tools Platform Model Base	org.eclipse.datatools.modelbase.feature	0.9.0.20I
	Data Tools Platform SQL Development Tools	org.eclipse.datatools.sqldevtools.feature	0.9.0.20I
Enabling Features			
	Batik	org.apache.batik	1.6.0.v20
	Batik PDF	org.apache.batik.pdf	1.6.0.v20



updatesite.nsf  
on Laptop/Server/Gum:

Preview: ▲



# Domino 8 : Administration Improvements

## § Improve operational efficiency

- 4 AdminP performance improvements
- 4 User rename/delete 50-1000x faster

## § Database redirection – helps with DB moves, deletes, etc

## § Automatic Inbox Maintenance



# Domino 8 - Database Redirection

**Move Database**

Use this tool to move databases to multiple servers automatically in the background via the Administration Process.

Selected: 2 Databases, 3 MB bytes

**Move databases to these servers**

- ethibodeau\_1/erict
- ethibodeau1/erict
- ethibodeau3/erict
- ethibodeau6/erict
- ethibodeau7/erict
- TestServer/erict
- V5DailyET7/erict
- v6DailyET3/erict
- v7dailyET7/erict
- v7DailyET8/erict
- v8dailyET4/erict
- v8dailyET8/erict
- v8dailyET9/erict
- Other...

**Destination database and server**

Destination server

- ethibodeau1/erict
- ethibodeau1/erict
- v7dailyET7/erict
- v7dailyET7/erict

Destination file path

DeleteDirectory\TestforD3.nsf

Show me only cluster members for cluster: ErictCluster2

Copy Access Control List

Create full text index for searching

Exchange Unread marks on replication

Create a redirect marker for updating client references

Domino Database datastore:

**Confirm Database Delete**

Permanently delete database DeleteDirectory\TestforD3.nsf on v8dailyET9/erict

Also delete replicas of this database on all other servers.

Create a marker that allows clients to update their references to this database

Redirect clients to the following server:

ethibodeau1/erict

If you choose to specify a deletion marker, you may also specify an alternate server on which a replica of this (or these) database exist. If the database cannot be found on the specified server a log entry will be generated, but the deletion will continue.

# Domino 8 : Automatic Maintenance of Inbox

Save & Close Create Web... Examine Notes Certificate(s) Cancel

Server: Russ Test Server

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

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

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

# Domino 8 : Directory and Security

## § Directory

- 4 Entitlement of IBM Tivoli Directory Integrator for use with Domino
  - § Simplifies multi-directory integration
- 4 Improved server performance for NAMElookup
- 4 Improved LDAP group membership expansion
- 4 Directory Lint - Directory scanning and problem reporting tool

## § Security

- 4 Secure Internet password field in Domino Directory
- 4 Internet account lockout due to password entry failure
- 4 Stronger encryption keys (up to 4096 bit keys)
- 4 Simplified key rollover
- 4 SSO using LTPAToken2



# Domino 8 : Domino/DB2 Integration

§ Many customer & business partner applications have been deployed using Domino 7 Limited Availability

§ General availability in Domino 8.0

- 4 Windows, AIX, Linux support is planned for Domino 8.0
- 4 DB2 9.1 support
- 4 Tested for both mail and applications
- 4 Simplified administration
- 4 Performance and size optimization



# Domino 8 : Platform Choices

§ Windows 2003 Server  
(Standard & Enterprise  
Edition)

§ Windows 2003 x64 Edition

§ x86 Linux

4 Novell SUSE Linux (SLES) 10  
(32 bit & 64 bit hardware)

4 Redhat Enterprise Linux  
(RHEL) 5 (32 bit & 64 bit  
hardware)

§ Sun Solaris 10

§ System p: AIX 5.3 & 5.4

§ System i: i5/OS v5R4

§ System z

4 zOS 1.7 and higher

4 Novell SUSE Linux (SLES) 10

4 Redhat Enterprise Linux (RHEL) 5

§ Native 64-bit Domino

4 Beta planned to be available at  
Domino 8.0 GA

4 GA planned for in 8.0.1 for Windows  
and AIX

§ 32-bit platforms will continue to  
be supported



# Domino 8 Themes

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- § Improved messaging
- § Greater versatility and manageability
- § Open applications infrastructure
- § Improved efficiency & performance





# Domino 8 : Open Applications Infrastructure

*Extending Domino applications in a Services Oriented Architecture (SOA) world*

§ Web services expansion

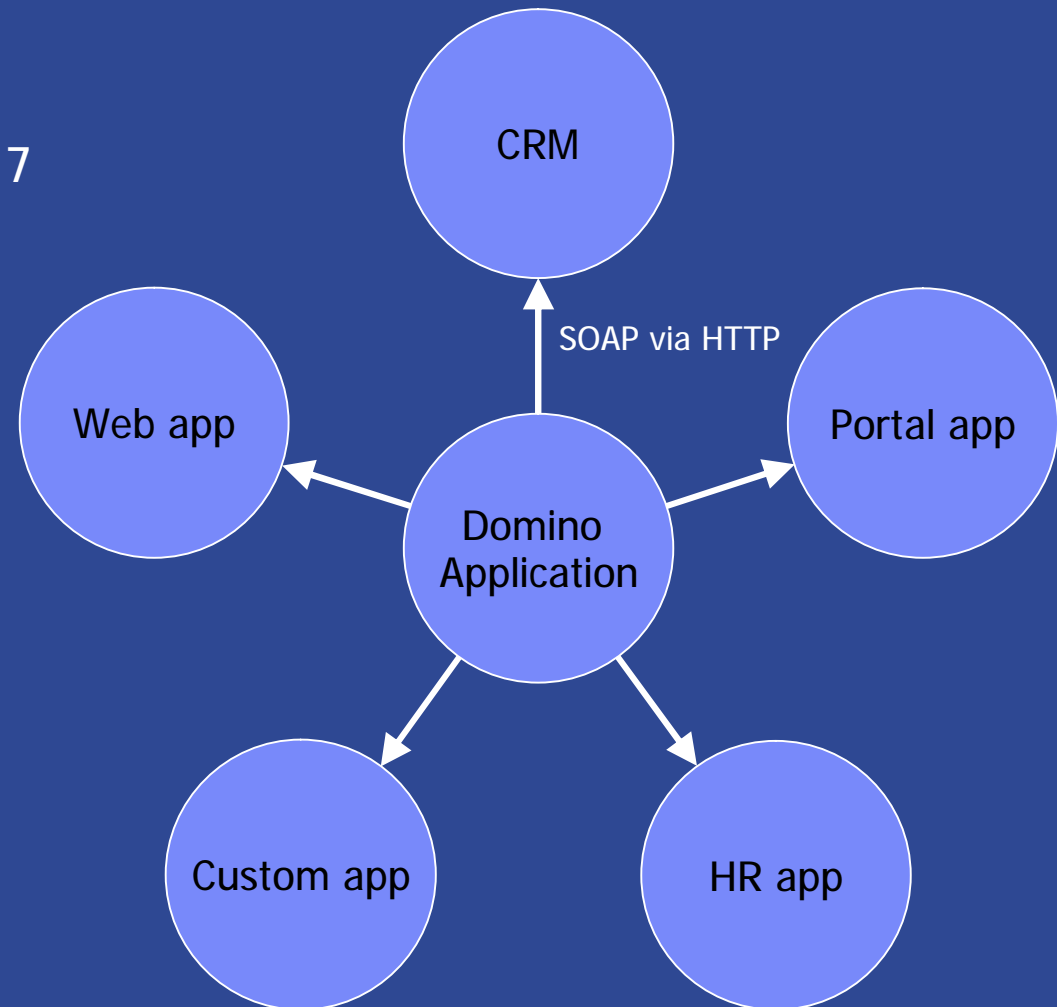
§ DB2 support and SQL integration

§ Composite applications ready



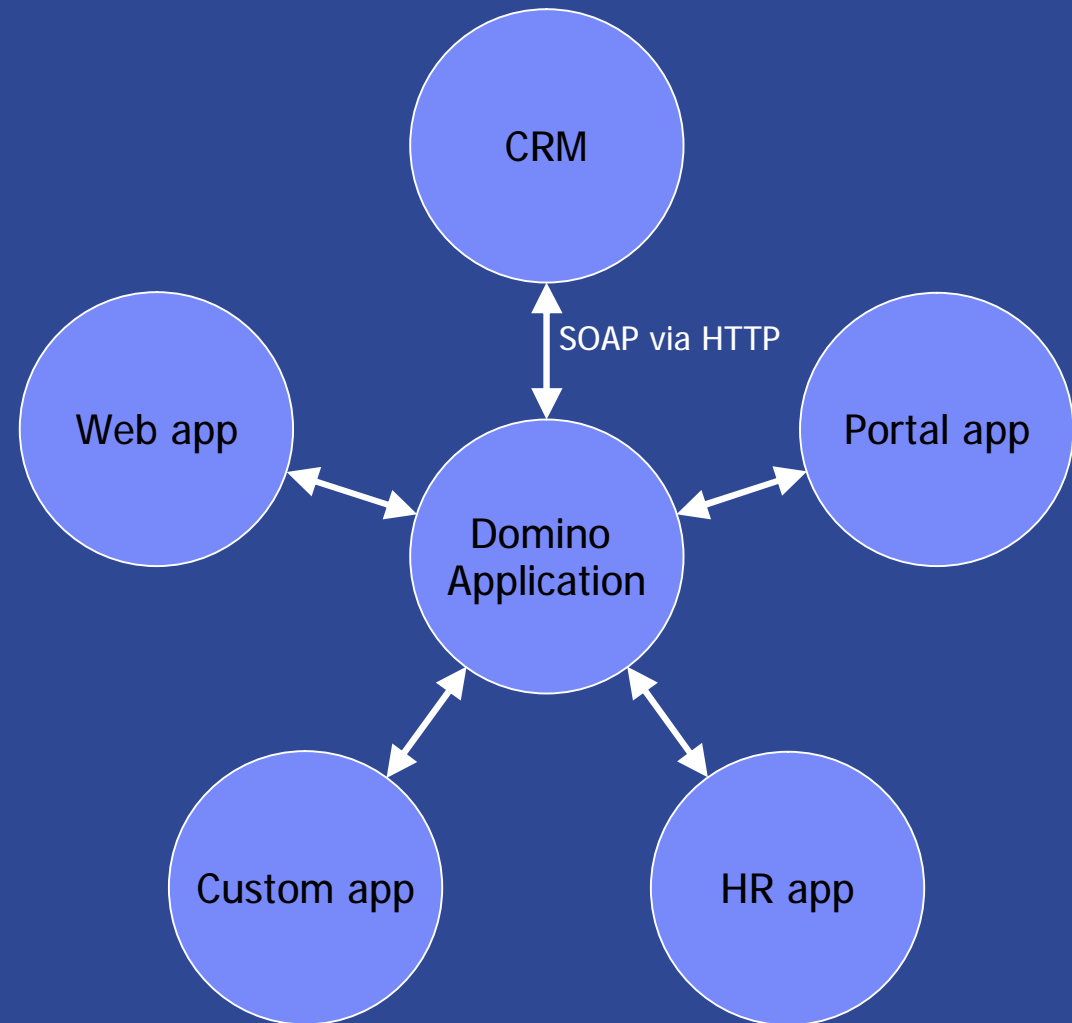
# Web Services in Domino 7

- § Web services provider in Domino 7
- § Domino applications can easily become web services
- § Capabilities built into Domino Designer 7
- § Supports LotusScript and Java



# Web Services in Domino 8

- § Adds web services consumer and provider in Domino 8
- § Web services can be built into Domino applications
- § New design element accessed within Domino Designer 8
- § Click-and-select import WSDL
- § Supports LotusScript and Java
- § Web Service Interoperability improvements



# Domino 8 : Domino/DB2 Integration

§ Many customer & business partner applications have been deployed using Domino 7 via limited availability program

§ General availability in Domino 8

- 4 Windows, AIX, Linux support in Domino 8.0
- 4 DB2 9.1 support
- 4 Tested for both mail & applications

§ Domino and DB2 delivers exciting new application development capabilities

- 4 Notes DB2 Query Views
  - § Use SQL in Notes to combine multiple databases into one view
- 4 Data Access Views
  - § Create queries & reports of Domino data via other DB2 query tools



# All Domino 8 apps are Composite Applications Ready

- § Domino application elements can become components of new Composite Applications
- § Domino apps can be wired to non-Domino apps via new design features and tools

The screenshot displays the IBM Lotus Notes interface for a Domino application titled "Corporate Customers - All by Company". The application features a sidebar with navigation options like "All Accounts", "By Company", "By Manager", and "By Region". The main content area shows a table of corporate customers with columns for ID, Account, Contact, Location, and Size. A yellow box with the text "Domino application component" is overlaid on the table. Below the table, there are sections for "Account Manager" and "Sales History". The "Account Manager" section shows details for "New Charter Enterprises", including its ID, account manager, phone, and email. The "Sales History" section shows a table with columns for "More Info", "Quotes", "Revenues", and "Target account selling".

ID	Account	Contact	Location	Size
3658	Ace Construction	Ace Johnson	Houston	\$100-999 million
4070	Reinforce Inc.	Sandy B...		
4193	KITCO	Mary Lou		
4268	Johnson & Sallard	Henry Silv		ilion
4365	Minto Landscapers	Edna Mint		ilion
5038	New Charter Enterprises	Brian Liu		ilion
5257	Fire Safety Technology	Shirley Wa		ilion
5386	Tartin Food Industries	Shinchi T		ilion
5412	Wagner Plumbing Supplies	Lloyd Hut		ilion
5702	Satellite Systems Corp.	Milton Guera	Los Angeles	\$1-10 billion

Account Manager

Company: New Charter Enterprises  
ID: 1756  
Account manager: Pavel Mih  
Phone: 214-743-0410  
Email: [pavelm@newcharter.com](mailto:pavelm@newcharter.com)

Sales History

Sales history for: New Charter Enterprises

More Info	Quotes	Revenues	Target account selling
Description: Has a line of highly reliable, low-voltage panels. It has recently entered into the low-voltage market.	Current volume: 100,000	Potential volume: 200,000	Opportunity currency: \$



# Domino 8 Themes

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- § Improved messaging
- § Open applications infrastructure
- § Greater versatility and manageability
- § Improved efficiency & performance



# Domino 8 : Improved Efficiency/Performance

- § Domino 8 performance work has focused on I/O bandwidth reductions
- § Has resulted in changes to benchmarks, metrics and release criteria
- § Result:
  - 4 Many I/O bandwidth improvements in core Domino
  - 4 Addition of features to allow administrator I/O bandwidth control and tuning
  - 4 Many CPU improvements resulting from I/O focus



# Domino 8 I/O Improvements

- § Streaming Cluster Replicator (SCR)
- § Avoid file filling when extending .NSF files
- § Database User Names Lists – for AdminP optimization purposes
- § Minimization of view note usage for folder operations and views
- § Avoiding profile note access for profile note-based view columns
- § Folder caching
- § UPDATE task streamlining for unchanged folders
- § Optimized API for detecting databases changes

Note: Many optimizations require use of Domino 8 format databases





# Streaming Cluster Replicator

§ SCR is new for Domino 8

§ Event-based – events are captured and queued as they occur

- 4 Note updates
- 4 Folder adds and removes
- 4 Unread mark operations

§ Stream-based protocol

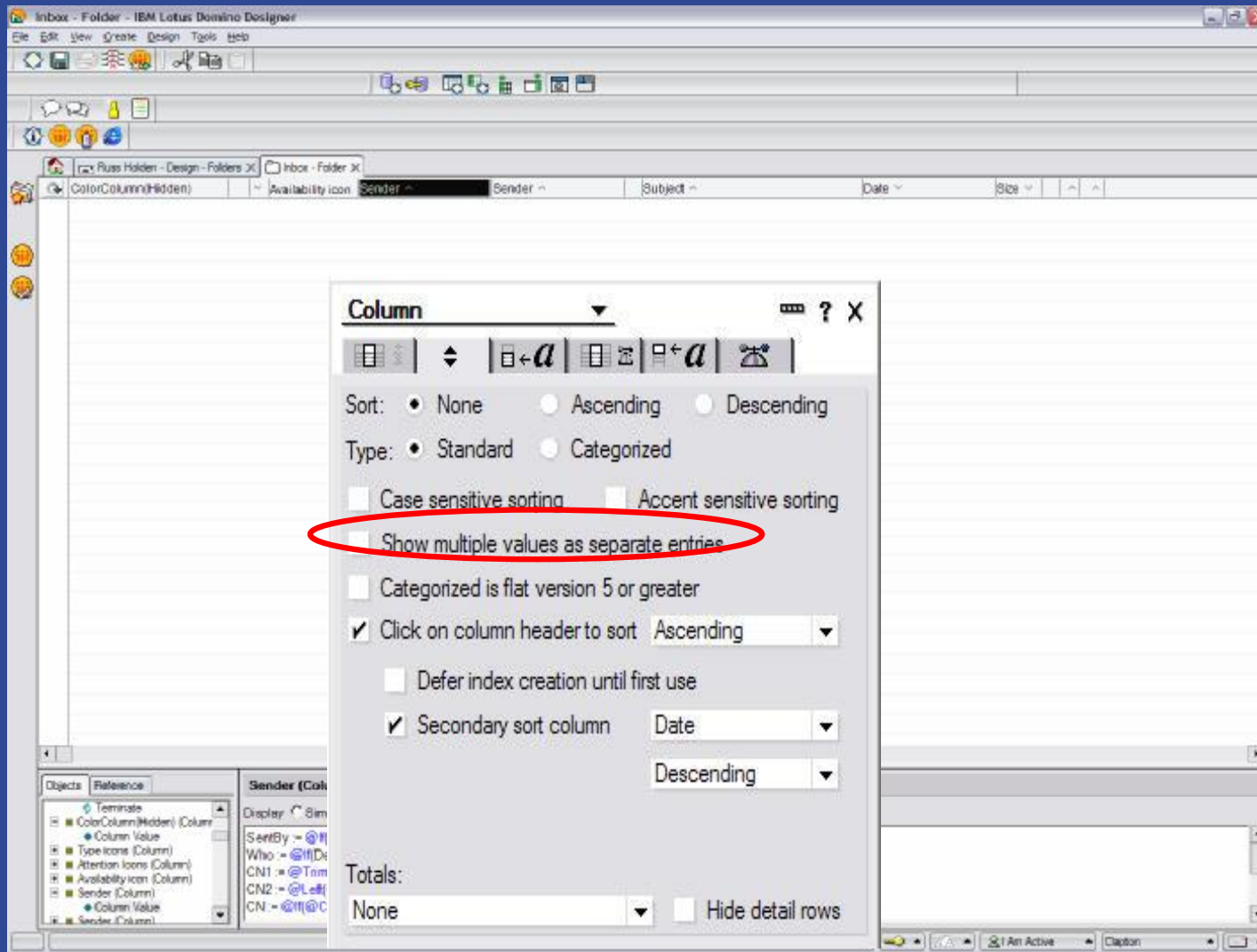
- 4 Uses in-memory information – avoids read I/O for source database
- 4 Propagation delays generally very short – increases caching effectiveness
- 4 Replication history updated periodically to reduce regular replicator overhead

§ Overall

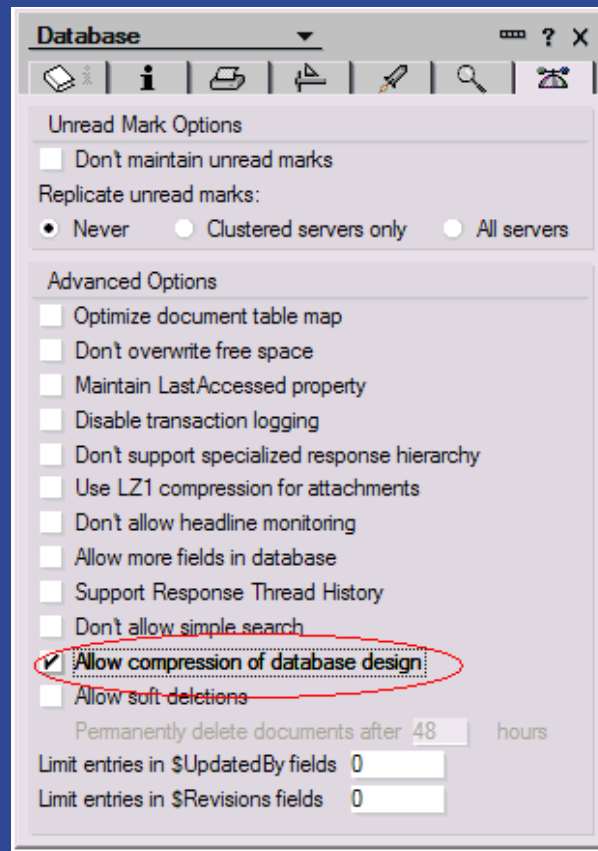
- 4 Significant I/O and CPU wins on source side of replication
- 4 Additional synergy with regular replicator reduces its overhead



# Domino 8 : Build-On-First-Use Collations



# Domino 8 : Enabling Design Note Compression



Dev team has measured significant space savings in DB design



# Domino 8 : AdminP Performance Improvements

- § Performance improved - quick check for name in database
  - 4 Eliminates need to search each note in the db for the name.
  - 4 Improves design element and Reader and Author changes
- § Critical request scheduling
  - 4 Change scheduled request (e.g.: run a daily request immediately)
- § Dedicated threads for immediate and interval requests
  - 4 Ensures execution when all general purpose threads are busy
- § Mechanism to reduce the size of admin4.nsf
- § Direct Deposit
- § Improved synchronization of unread marks when creating replicas through AdminP.
  - 4 Replication to a "stub" doesn't currently do this



# Domino 8 will be an upgrade...no rip & replace

Direct upgrade from Domino 6.x or Domino 7.x

- § Many significant improvements but...
- § Same proven Infrastructure
- § Same data stores
- § Same model for customizing the mail template
- § Same Security Infrastructure & Features
- § Same Directory
- § Same Admin tools
- § Same Replication
- § Same broad set of application APIs





# Roadmap beyond Domino 8

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# Domino Next Objectives

## The next major investment in Lotus Domino

- § More Open – Directory, Security
- § More Efficient – I/O bandwidth, storage reduction, CPU
- § More Messaging features
- § More Manageable – Domino QuickTune, Domino Domain Monitoring (DDM)
- § More Reliable – Highly Available, High Quality-of-Service
- § More Extensible – HTML output, Web Services APIs, ISV interfaces
- § More Integrated – e.g. IBM Proventia, IBM CommonStore



# Future Directions for Lotus Notes & Domino



## Lotus Notes "Next"

- Continued UI refinement
- Composite application extensions
- Social software extensions

2008/2009

## Lotus Domino "Next"

- Reduce cost of storing e-mail
- Extended directory support
- Alternative forms of authentication

## Lotus Notes 8.0.1

- iCal subscription
- Mac support

2007/2008

## Lotus Domino 8.0.1

- 64-bit support
- FIPS-140 for Notes mail
- Extended email security

2Q07

## Lotus Notes 8.0

- Enhanced mail, calendar, contacts
- Continuity for Notes users
- Activity centric computing
- Contextual collaboration
- Composite Applications
- Windows, Vista and Linux

## Lotus Domino 8.0

- Mac support
- Extended policy management
- Extended Web services
- Composite applications

## Lotus Notes 7.0.2

- Lotus Notes on a Stick
- RSS feed reader
- iCal Import and export
- Blog Template
- Notes Access for SAP Solutions
- Macintosh support
- Linux Support (7.0.1)

## Lotus Notes & Domino 8.0 Public Beta

Q3 2006



Lotus



# Lotus Notes & Domino Investment Protection

**Lotus.**

Notes & Domino 8

Open

Integrated

An easy upgrade



Lotus

Notes & Domino

# Backup

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# IBM Proventia Network Mail Security

## § Spam control

- 4 Multi-level message analysis
- 4 Catches latest image spam at ~98%
- 4 Phishing email checks
- 4 Leverages massive IBM Proventia Filter Database

## § Integrated ISS intrusion prevention technology (IPS)

## § Zero-day protection from viruses, spyware, and other malware

## § Sophisticated ruled-based mail policy management

- 4 Social security & credit card # detector for inbound & outbound email

## § LDAP integration with IBM Lotus Domino



# IBM CommonStore Archive, Discovery & Compliance

IBM Information Management & Domino teams are working together to take CommonStore to the next level

- § **Simplified** installation, configuration and administration
- § **Scalable**: single server or across multiple servers
- § **Reduces cost of ownership** by adding autonomies
- § **Reduces storage**: strong de-duplication rates across emails and attachments
- § **Integration with Domino**: installation, deployment, admin UI, search, doc

