Integrating SharePoint with Lotus Notes and WebSphere Portal
Who Is Mainsoft?

Founded: 1993

Business: Leader in Microsoft-Java EE interoperability; Advanced IBM Business Partner since 2004

Vision: Coexistence of Microsoft & Java platforms

Clients: 150+ banking, healthcare, insurance, manufacturing, retail, software development and public sector customers

Product Validations: Top 10 in InfoWorld 100

Awards: Best option for rehosting .NET apps on Java EE servers
Many workgroups use SharePoint for team collaboration and document sharing:

- The “backend” to Microsoft Office, SharePoint is tightly integrated with Word, Excel and PowerPoint.

- Simple to deploy, easy to use and “free” with Windows Server 2003 or 2008.
Strategic Coexistence: SharePoint and Lotus

- **Get more value** out of your existing investments in SharePoint and IBM products
- Focus on your **business users’ experience** and needs rather than on costly migration projects
- Maintain the **flexibility to choose** technologies from a variety of vendors in an open infrastructure and **avoid vendor lock-in**
SharePoint Integration into IBM Products

SharePoint Federator for WebSphere Portal
- **Secure, role based** access to all SharePoint lists from WebSphere Portal
- **Composite applications** that integrate SharePoint content with LOB applications – both .NET and Java

SharePoint Integrator for Lotus Notes
- SharePoint – Lotus Notes coexistence

SharePoint Integrator for Lotus SameTime
- Start **Sometime chat** from a document stored on SharePoint
- Drag & Drop SharePoint documents to Sametime IM client

SharePoint Integrator for Rational Jazz (Q4 2008)
- **Access** SharePoint document libraries from Jazz-based products
- **Collaborate easily** with anyone who uses SharePoint but not an IDE
Strategic Coexistence: Built on solid foundation

- Built on SharePoint SOAP Web services and FrontPage RPC interfaces
  - Well documented and stable interfaces
  - Same interfaces used by MS Office applications: Word, Excel, PowerPoint, Outlook.
Integrating SharePoint with Lotus Notes:

SharePoint Federator
for WebSphere Portal
SharePoint Challenges for Enterprise IT

- Exposing SharePoint team sites to extranet
- Exposing SharePoint team sites to broad enterprise audiences
- How to maintain centralized security, consistent branding and navigation?
- How to integrate SharePoint sites with Java LOB applications and other non Microsoft applications?
Balancing Compliance & Innovation

- Compliance:
  - External Regulations
  - Centralized security management, unified user directory, single sign-on, role base security
  - Consistent branding and navigation

- Innovation:
  - Teams need freedom to use and manage existing collaboration tools to accelerate time to market
Federation Portal: Container for Composite Apps from Multiple Portals

- Business Partner Portal
- WebSphere Portal
- Enterprise Portal
- Java EE Application Server

Communication protocols:
- WSRP
- SOAP
Centralized Access to Departmental SharePoint Sites

Corporate Users

User 1 Credentials

User N Credentials

Corporate IT

WebSphere Portal

Corporate LDAP Directory

Departmental SharePoint Site

Departmental Active Directory

Content Owner

Departmental Credentials
SharePoint Federator for WebSphere Portal

- Out-of-the-box Federation Portlets deliver secure access to SharePoint lists. No coding needed.

- SharePoint SDK for WebSphere Portal to build composite apps across .NET and Java. Can be used from Visual Studio or Eclipse.
Enterprise Mashups: SharePoint & Google Maps

Order fulfillment site reuses New Orders and Order Details ASP.NET portlets.

SharePoint content participates in composite application with a Google Gadget & Sametime Collaborate Services.

Product Materials list is stored on SharePoint.
Integrate Dashboard Framework with SQL Reports

Inventory Status KPI (Dashboard framework) alerts management when inventory runs low.

Item Status Report, a drilldown for the Inventory Status KPI, federates Microsoft SQL Reporting Services & provides an inventory list, open orders, & purchase orders.
Mainsoft SharePoint SDK
Design your own portlets integrating SharePoint contents.

- SharePoint content exposed to Java programmers through SharePoint Java SDK
- Provide interfaces to all required SharePoint objects: sites, libraries, folders, documents, content types.
- Will provide JSF controls
  - SharePoint Grid to display a SP list within a grid
  - Credential Vault Logging control
WebSphere Portal Supports Microsoft Office Communication Server

- WebSphere Portal person tag bound to Microsoft Office Communication Server (MOCS)
- Present Awareness Portlet for MOCS
Lotus Notes-Microsoft SharePoint

Coexistence Strategy
Strategic Coexistence: Management & Support

Easy-to-deploy & manage Mainsoft SharePoint Integrator for Lotus Notes:

- **No server installation**: IT administrators do not have to install additional software on the SharePoint or the Domino servers.
- **Standard client plug-in provisioning**: Mainsoft SharePoint Integrator is a client-side plug-in that can be centrally provisioned through an update site.
- **Self-service**: End-users can configure SharePoint sites and favorites themselves.
SharePoint Pains for Notes Users

- Not easy to navigate multiple SharePoint sites to locate a document
- Not easy to include a document link or attachment in a Notes email
- Not easy to share emails on SharePoint
- Project-specific SharePoint calendars, contacts and tasks cannot be integrated into Notes calendar, contacts or tasks
- Documents in SharePoint cannot be accessed when offline
The Extent of the Problem

In a survey conducted by Lotus User Group, 79% said SharePoint content integration with Lotus Notes is a high priority, very important, or important.

- LotusUserGroup.org, June 2008

So how can Corporate IT deal with IBM’s and Microsoft’s incompatible messaging and collaboration platforms?
Strategic Coexistence: SharePoint Integrator for Lotus Notes

- **Client-side plug-in** that provides **direct access** to SharePoint document libraries from a sidebar in Lotus Notes
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- Connect to SharePoint sites by entering site URLs
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- Mainsoft SharePoint Integrator uses [Windows Integrated Security](http://example.com) to verify authentication and permissions
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- **Navigate document libraries** without leaving Notes

- **Drag-and-drop documents** from SharePoint to Notes emails...
Documents can be shared as attachments or links
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

…and from SharePoint to calendar appointments and tasks
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- Navigate document libraries quickly using favorites....
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

...and with backwards, forwards navigation buttons
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- Modify existing documents within a SharePoint document library using check-in/check-out features
Strategic Coexistence: SharePoint Integrator for Lotus Notes ver. 1.1

- View document's version history
Strategic Coexistence: Integrate SharePoint Document Libraries into Lotus Notes 6.5, 7.x

- Also access SharePoint document libraries from Lotus Notes 6.5 and 7.x
Integrate SharePoint into Lotus Sametime

- Documents in a SharePoint library display Sametime presence awareness for document author and most recent editor.
- **Drag-and-drop** SharePoint documents into the Sametime IM client.
Integrate SharePoint into Lotus Sametime

- Support for SharePoint integration into Sametime 7.5 and 8 is also available
SharePoint Integrator for Lotus Notes v1.5 (Oct’08)
Email Management

- **Share Notes emails** in SharePoint along with documents to enhance collaboration

- Make it easy to **comply with both corporate and external regulations** requiring to document the **decision-making process**

- Reduce **dependency on employees’ Inbox**, reducing email traffic and email storage requirements
Email Management v1.5
Intuitive user interface

- Drag and drop emails to the sidebar
- “Save to SharePoint” button
Email Management v1.5
Email view from Notes and from SharePoint

- Email stored in SharePoint are viewable
  - Within Notes mail application
  - Within the SharePoint Web user interface
    - Internal links to the attachments
    - Customizable template
Manage Notes Emails From SharePoint

- Save the whole email including attachments, message headers, body, maintaining full context, into an .eml file
  - Map email headers to SharePoint meta-data displaying emails list in user-friendly layout
- Leverage SharePoint .eml built-in support
  - Internal links from body to attachments
  - Both body and attachments are crawled
  - SharePoint search will find data in email attachments
Federate team appointments in the Notes calendars; identify conflicts

Provide offline access to SharePoint document libraries
Strategic Coexistence: Composite Applications

- Integrate **data and business logic** from SharePoint, Notes & Domino, Java & .NET applications into business mashups for:
  - A more **productive** Notes-based work environment
  - Insights into business performance
  - Complete information for making **informed business decisions**
- **Reuse existing systems** within business processes, without re-coding
IBM-Mainsoft Deal Boosts WebSphere Portal Interoperability

**Analysis:** “IBM's new reseller agreement with Mainsoft augments WebSphere Portal's .NET interoperability capabilities and includes a new functional component targeting SharePoint site and SQL Reports integration.”

**Recommendation:** “Aggressively evaluate .NET Extensions for WebSphere Portal for deployment based on Mainsoft, Portal Edition functionality.”

- David Gootzit, Research Director, Gartner
Healthways, Inc.

Using .NET and Java technologies to build an eFulfillment site for 27 million members

Challenge

- Healthways was growing 36% a year and needed to streamline operations.
- In 2006, company spent $28 million printing and mailing literature to its membership, and it needed to reduce costs.
- Chose WebSphere Portal as the preferred portal platform but in-house development team was .NET.

Solution

Use Mainsoft and WebSphere Portal to create a self-service fulfillment portal that gives members 24x7, online access to health and disease management documents.

Benefits

- Site entered production 5 months after development began.
- Estimate that full ROI will be achieved within one year.
- C# developers used Mainsoft’s Visual Studio-based SDK to build Java portlets after a single day of training.
- Site delivers unified experience, with single sign on, role-based access, common navigation and branding across both .NET and Java components.

“We achieved the best of both worlds: we used our enterprise .NET skills to develop our eFulfillment site, and we delivered a highly personalized experience to members in a highly scalable, proven production environment.”

David Jarmoluk
Director of Enterprise Architecture
Healthways
The University Hospital Ghent

Uses .NET and Java technologies to build open-standards-based virtual information service center

**Challenge**
- Replace Website, Intranet & Extranet with a single site for 380,000 patients & families; 5,000 doctors, nurses, technical and admin staff; healthcare professionals; and researchers and students.
- Portal must support open standards and deliver maximum reliability, availability, scalability & security.

**Solution**
- However, hospital has existing VB apps & developers.
- IBM Global Business Services & UZ Ghent are building the portal using IBM WebSphere Portal Extend software and a content management system based on IBM Workplace Web Content Management software.
- UZ Ghent’s VB team integrated 500,000 lines of VB code into the Portal in 3 man months. The Website is now in production.

**Benefits**
- Communication among staff, patients and students will improve, leading to increases in productivity.
- Healthcare professionals can collaborate more easily, which leads to faster problem diagnosis & improved information sharing.
- Overall, a reduction in operation expenses

"With the portal implementation, I threw away all my biases about the fact that you need to choose between .NET and Java development because the gap between the two of them is so small having the Mainsoft solution..."

“...I would advise everyone who is confronted with interoperability issues just to consider the solution of Mainsoft because it's so easy to make .NET and Java code work together.”

Bart Sijnave
CIO, UZ Ghent
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