



【IBM SOA講堂】 Lotus動員協作：Portal 整合協同開發平台

鄭志傑
IBM 高級資訊工程師
chengcc@tw.ibm.com

IBM Certified System Administrator
WebSphere Portal

WebSphere Portlet

- **WebSphere Portal v6.0.x 協同作業功能與架構介紹**
- **如何使用Portal去整合既有的Lotus Domino 環境**
- **如何利用各式portlet去整合Lotus Domino資料庫**
- **如何結合Portal功能去設計協同應用**
- **如何設計Domino portlet應用程式**



WebSphere Portal

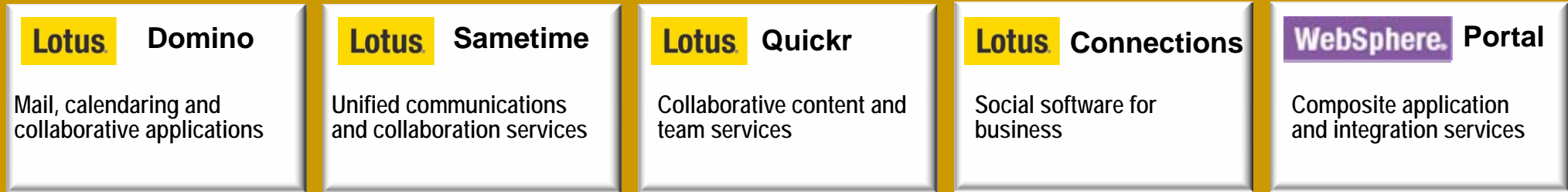
- **WebSphere Portal v6.0.x 協同作業功能與架構介紹**
- 如何使用Portal去整合既有的Lotus Domino 環境
- 如何利用各式portlet去整合Lotus Domino資料庫
- 如何結合Portal功能去設計協同應用
- 如何設計Domino portlet應用程式



IBM Lotus 協同合作的策略



Interaction and client services (offline & online)



Composite Application Framework



Business process

Information



不僅支援Louts，對 Microsoft Exchange 支援

Exchange Portlet

- Web Dav and Outlook Web Access support
- Exchange 5.5,2000 support
- Credential Vault

IBM Portlet for Outlook Web Access

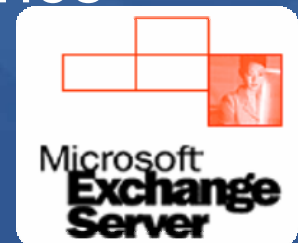
- on Portal Catalog

Internet Portlet

- Exchange supports POP3

Common Mail Portlet

- Introduced with WP 5.1
- Supports Domino, Exchange, Internet
- Mail, Calendars, To Dos
- Exchange 2000, 2003
- Leverages Credential Vault.
- Contextual Collaboration/presence awareness



Exchange Portlet

Microsoft Exchange2003 Mail

Compose Refresh

wpsadmin@ibm.local Jump To: 1 - 5 of

Folder: Inbox Move to: Inbox

<input type="checkbox"/>	From	Subject	Date	Size(bytes)
<input type="checkbox"/>	Administrator@ibm.local	Lotosphere Rocks	24-01-2007 10:05 AM	426
<input type="checkbox"/>	Administrator@ibm.local	RE: Birmiam is hard to find	19-01-2007 03:18 PM	2 KB
<input type="checkbox"/>	Administrator@ibm.local	 FW: Hello world	19-01-2007 03:18 PM	12 KB
<input type="checkbox"/>	Administrator@ibm.local	RE: Quick email	12-09-2006 03:17 PM	761
<input type="checkbox"/>	Administrator@ibm.local	RE: Please Look at this doc	05-09-2006 09:14 AM	793

Exchange Portlet

- Web Dav and Outlook Web Access support
- Exchange 5.5,2000 support
- Credential Vault



Exchange Portlets – Outlook Web Access

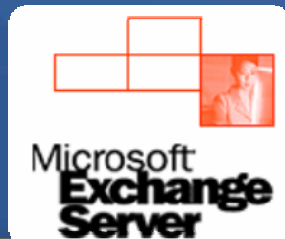
IBM Portlet for Outlook Web Access

The screenshot shows the Outlook Web Access interface. The top bar includes the Microsoft Office logo, 'Outlook Web Access', and the current folder 'Inbox (Messages)'. It also shows 'Items 1 to 23 of 23'. The left sidebar contains navigation options: Folders, wpsadmin, Calendar, Inbox, Calendar, Contacts, Tasks, Public Folders, Rules, and Options. The main area displays a list of emails with columns for From, Subject, Received, and Size.

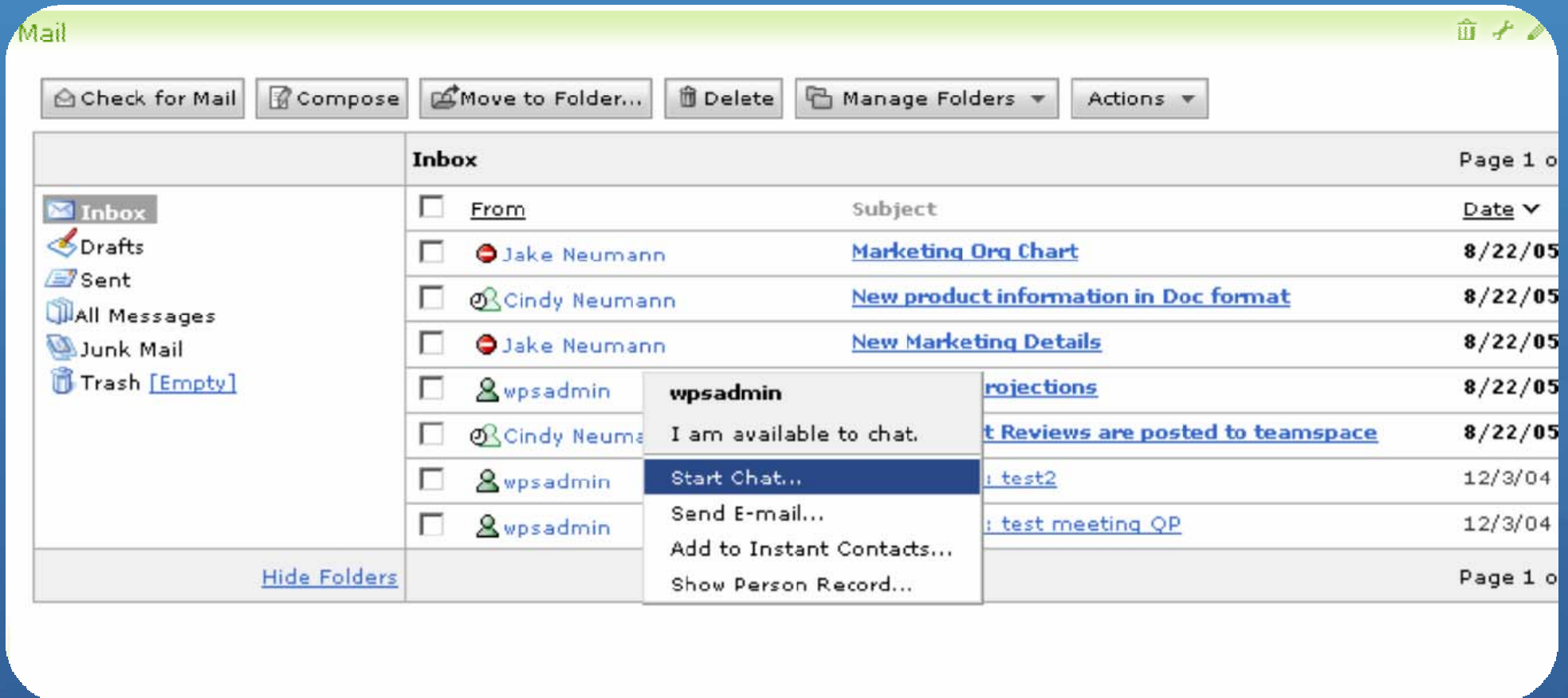
From	Subject	Received	Size
Administrator	Lotusphere Rocks	Wed 1/24/2007 10:0...	426 B
Administrator	RE: Birmingham is hard to find	Fri 1/19/2007 3:1...	3 KB
Administrator	FW: Hello world	Fri 1/19/2007 3:18 P...	12 KB
Administrator	RE: Quick email	Tue 9/12/2006 3:...	761 B
Administrator	RE: Please Look at this doc	Tue 9/5/2006 9:14 A...	793 B
wpsadmin	review	Tue 9/5/2006 9:05 A...	201 KB
Administrator	test	Tue 9/5/2006 8:3...	426 B
Administrator	FW: Hello world	Fri 4/28/2006 2:17 P...	892 B
Administrator	Soc Gen Monday	Mon 4/3/2006 11:59...	53 KB
Administrator	test	Mon 4/3/2006 11:41...	53 KB
wpsbind	Whitepaper	Mon 4/3/2006 9:45 ...	201 KB

IBM Portlet for Outlook Web Access

• on Portal Catalog



Common PIM Portlet – 2000 & 2003 Support



- Common Mail Portlet

- ▶ Introduced with WP 5.1
- ▶ Supports Domino, Exchange, Internet
- ▶ Mail, Calendars, To Dos

- Common Mail Portlet

- ▶ Exchange 2000, 2003
- ▶ Leverages Credential Vault.
- ▶ Contextual Collaboration/presence awareness



Common PIM Portlet – 2000 & 2003 Support

Common Mail Portlet

- Introduced with WP 5.1
- Supports Domino, Exchange, Internet,
- Mail, Calendars, Todos
- Exchange 2000, 2003
- Leverages Credential Vault.
- Contextual Collaboration/presence awareness

Mail

Mail Configuration

Enable the mail server types/protocols that this portlet will point to. You can also allow portlet users to make this choice in edit mode.

Server Type/Protocol	Status	Default		
IBM Lotus Domino	Enabled	<input checked="" type="radio"/>		
Exchange 2000	Enabled	<input type="radio"/>		
IMAP4	Enabled	<input type="radio"/>		
POP3	Enabled	<input type="radio"/>		

Allow portlet users to change the mail server type/protocol in edit mode

Done

Outlook Portlet Demo (Custom example) Hybrid

Microsoft Outlook portlet

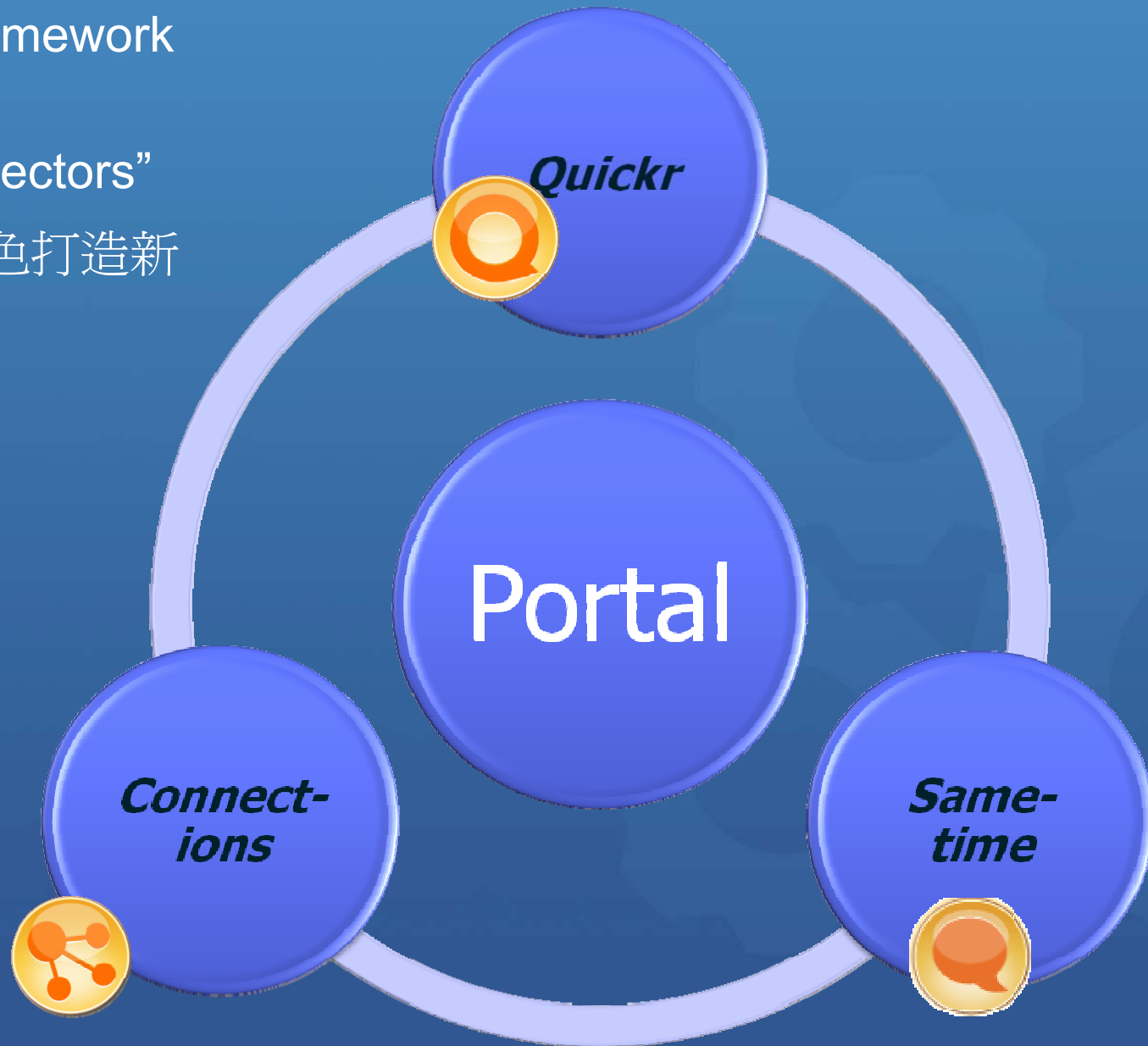
New | Reply | Reply to All | Delete | Forward | Flag |

From	Subject	Size	Received
wpsadmin	Quick email	206 KB	Tue 9/12/2006 3:15 PM
wpsadmin	Birmingham is hard to find	206 KB	Wed 9/6/2006 1:25 PM
wpsadmin	Please Look at this doc	206 KB	Tue 9/5/2006 9:13 AM
wpsadmin	review	206 KB	Tue 9/5/2006 8:37 AM
wpsadmin	FW: SharePoint Site: http://porta...	5 KB	Fri 1/21/2005 4:30 AM
Administrator	Hello world	4 KB	Thu 10/14/2004 10:14 PM
Outlook 2003 Te...	Welcome to Microsoft Office Ou...	35 KB	Wed 10/13/2004 9:24 PM

- Client based implementation
- Supports any version of Exchange (from 4.0 to 2007)
- Very rich feature set/UI (Matches Outlook win 32 client)
- **Not a pure thin client solution**
Outlook 98/2000/XP/2003/2007 needs to be installed on Workstation

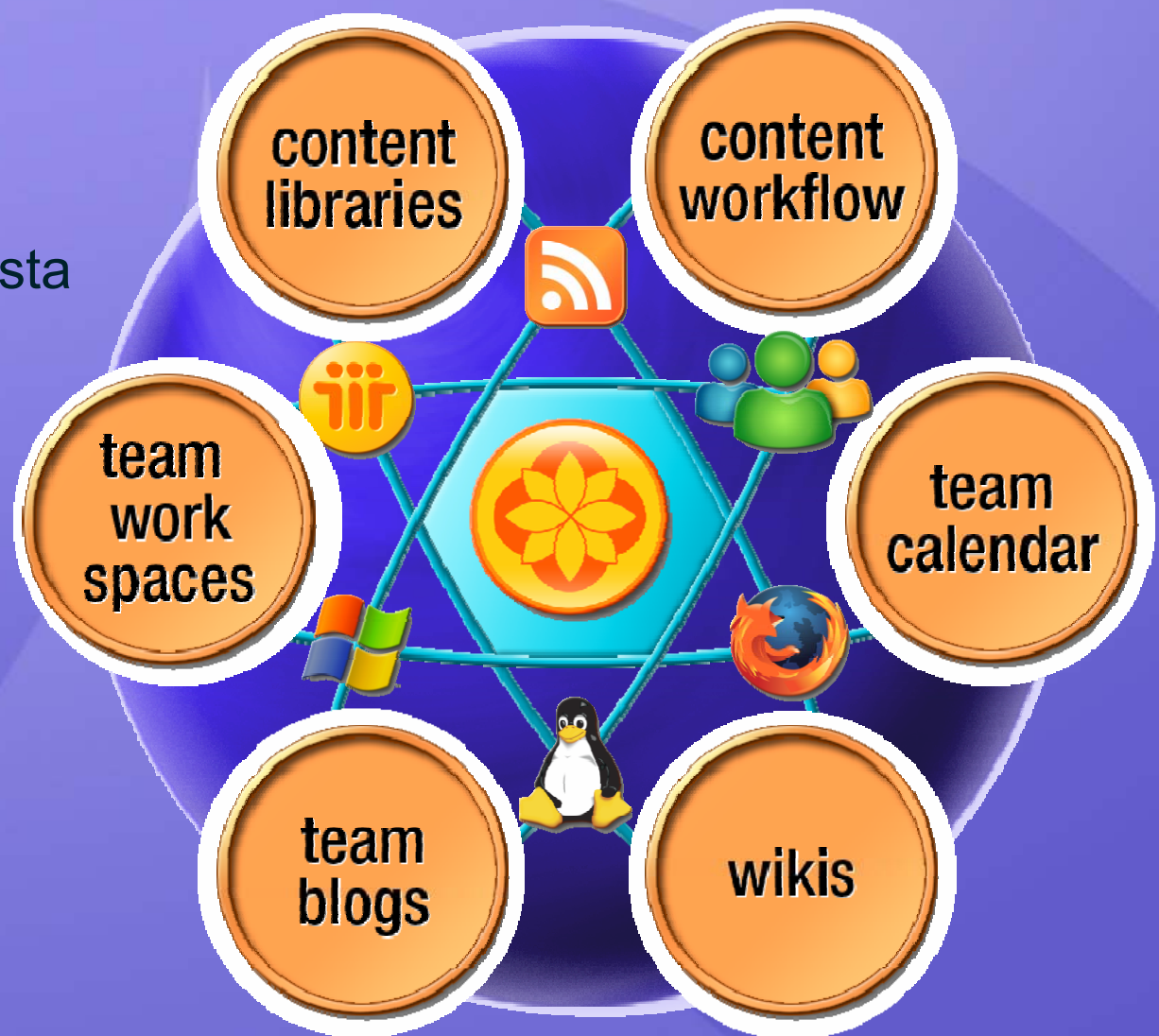
最新的 IBM Collaboration Accelerator

- 利用 Portal Framework 架構
- Desktop “Connectors”
- 以 Web 2.0 特色打造新一代協作功能



Lotus Quickr

- Quickr Connectors
 - Lotus Notes 7.0.2 and 8
 - Sametime 7.5.1.
 - Windows Explorer
 - Windows XP & Windows Vista
 - Microsoft Office
 - Office XP on Vista
 - Office 2003/2007 in Windows XP/Vista
- IBM Productivity Tools
- RSS / Atom
- MS Outlook*



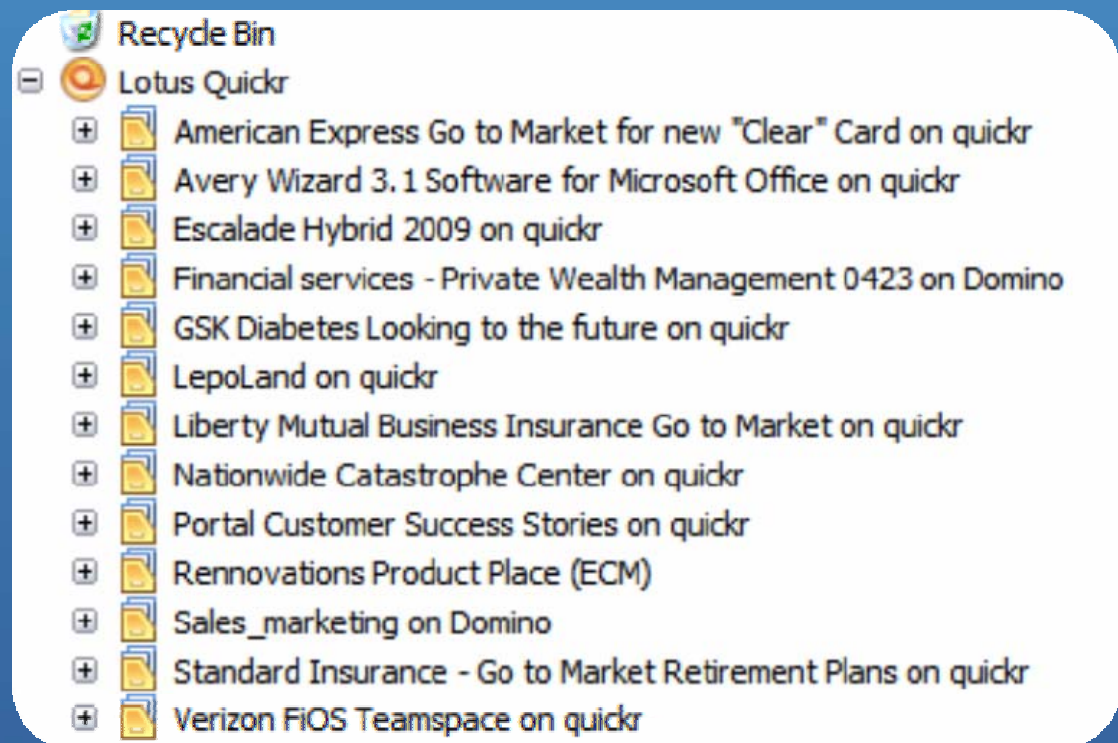
Connectors for Quickr

6 Connectors

1. MS File System
2. MS Office
3. Lotus Notes
4. Sametime
5. Portal / Browser
6. Outlook *

Backend Libraries

1. Domino
2. J2EE (Portal)
3. FileNet*
4. Sharepoint*
5. JCR / Java*



Lotus Quickr

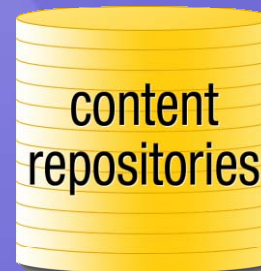
connectors



services

Content Service Bus

content repositories



Lotus Quickr

WebSphere Portal Version 6.0



NSF



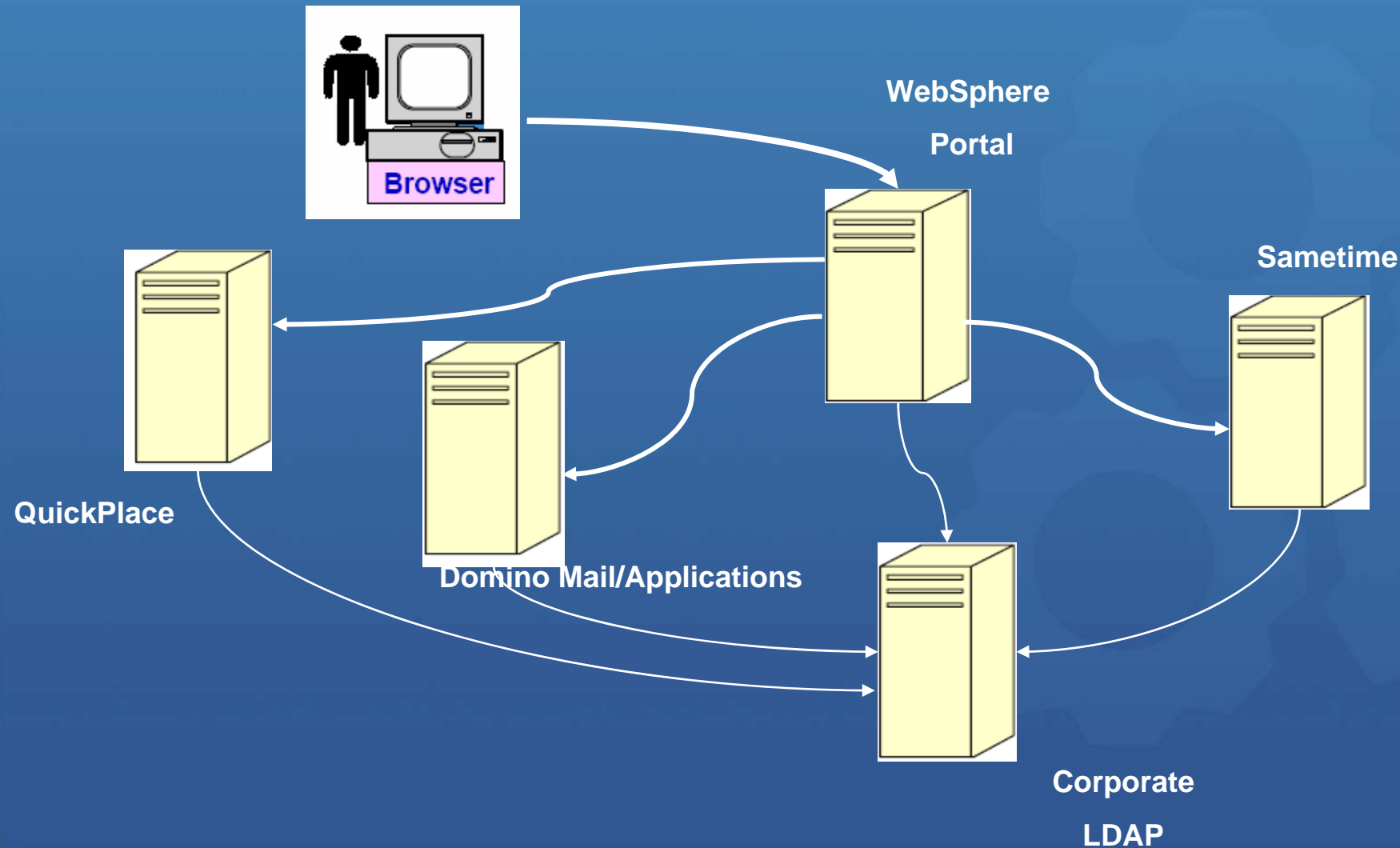
WebSphere Portal

- WebSphere Portal v6.0.x 協同作業功能與架構介紹
- 如何使用Portal去整合既有的Lotus Domino 環境
- 如何利用各式portlet去整合Lotus Domino資料庫
- 如何結合Portal功能去設計協同應用
- 如何設計Domino portlet應用程式



典型的客戶架構

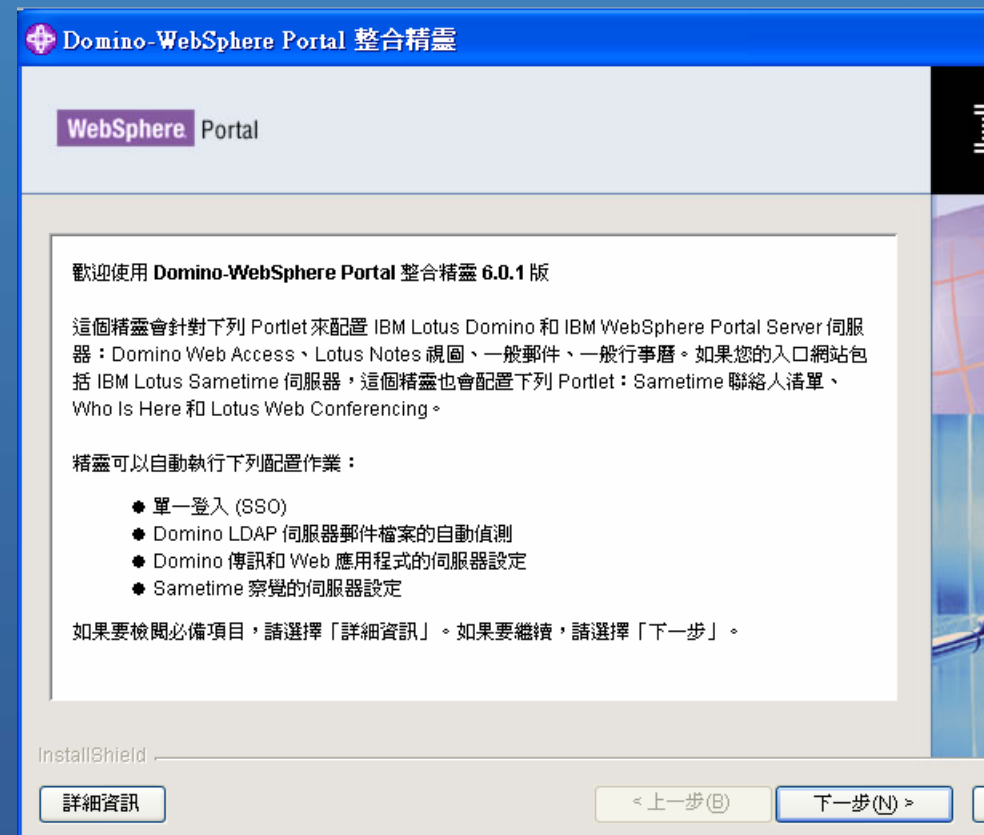
The Domino Portal Integration (DPI) Out of the Box (OOB) User Experience will make it easier for Portal customers to work with their Domino-based infrastructure



Domino-WebSphere Portal 整合精靈資訊

● 這個精靈可以自動執行下列配置作業：

- IBM WebSphere Application Server 和配置給 WebSphere Portal 的 IBM Lotus Domino LDAP 伺服器之間的單一登入 (SSO)。
- 自動偵測 Domino LDAP 伺服器的郵件檔案，使傳訊Portlet能夠根據使用者用來登入入口網站的名稱來偵測郵件檔案。
- Domino 傳訊和 Web 應用程式的伺服器設定，其中包括 XML 服務、HTTP、DIIOP 和 SSO。
- Sametime 察覺及 Sametime Portlet 支援的伺服器設定。



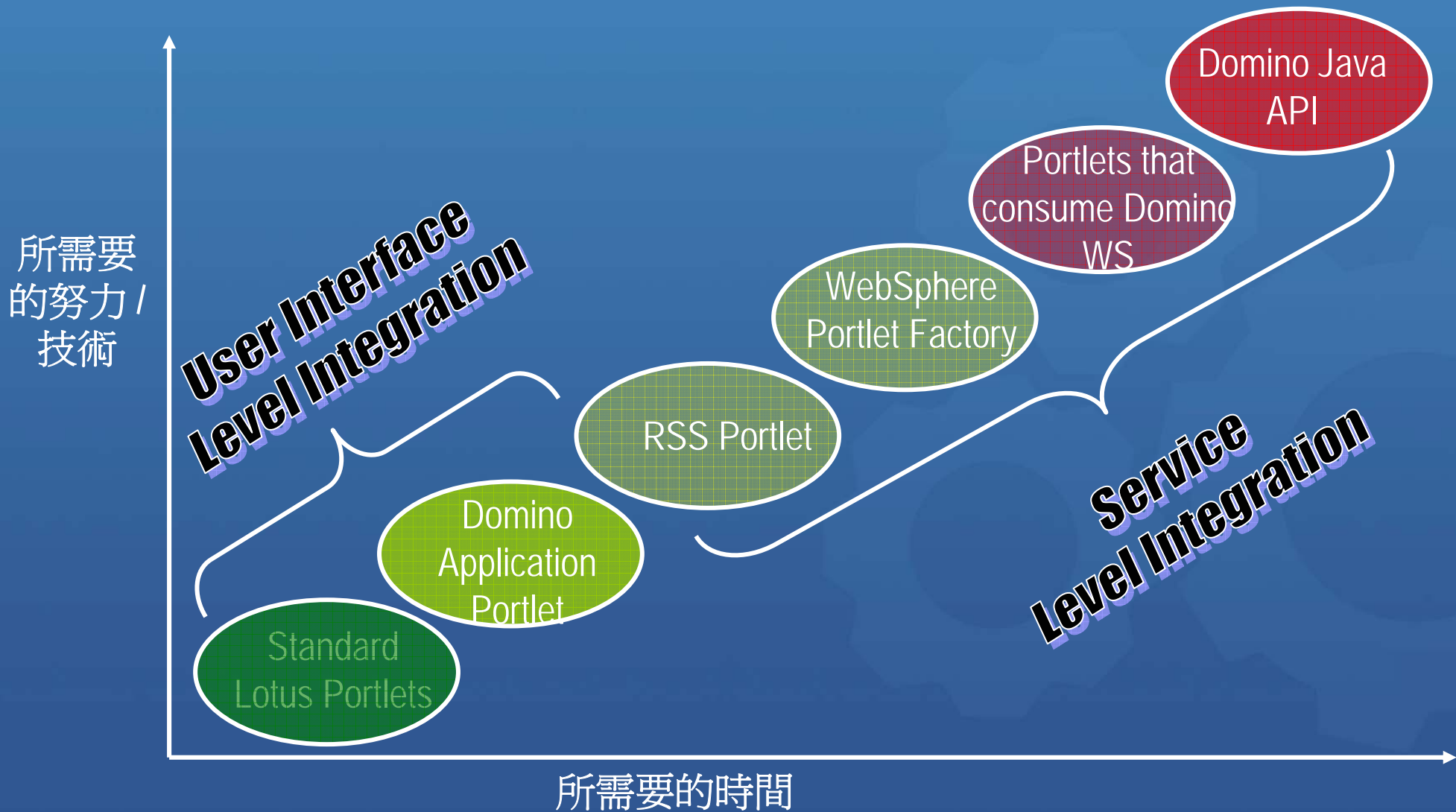
WebSphere Portal

- **WebSphere Portal v6.0.x 協同作業功能與架構介紹**
- 如何使用**Portal**去整合既有的**Lotus Domino** 環境
- 如何利用各式**portlet**去整合**Lotus Domino**資料庫
- 如何結合**Portal**功能去設計協同應用
- 如何設計**Domino portlet**應用程式



與 Lotus Domino 應用程式的整合策略

Patterns



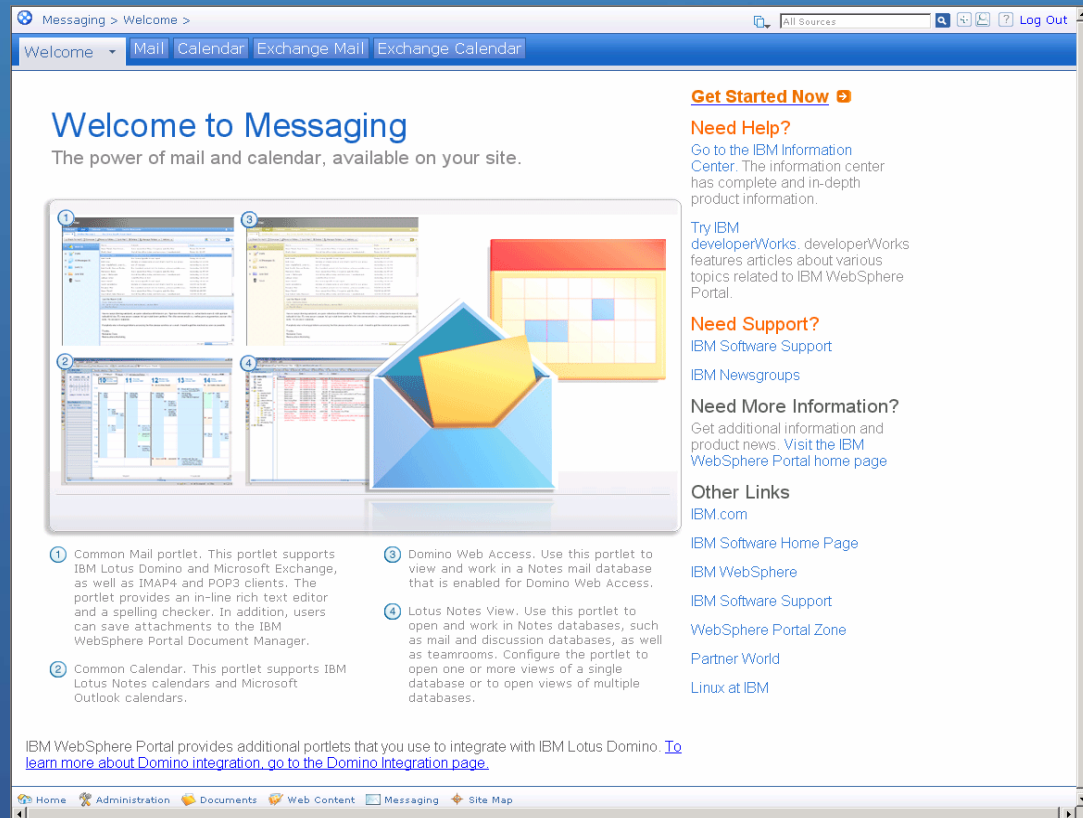
CPP - Common PIM Portlets

Out of the box portlets

Found on the Messaging > Welcome site area

- Common Mail
- Common Calendar

There are updates to these available in the Portlet Catalog



DEPP – A look at the Portlets shipped in Portal

Domino Integration > My Databases > All Sources Log Out

Welcome **My Work** My Team My Databases

Lotus Notes View

Actions... View Portal Discussion All Documents Page 1 of 1 Jump to page: []

Topic	Date
<input checked="" type="checkbox"/> CPP Draft Lab for Review (Gianluigi Marchetti)	04/21/2006
<input type="checkbox"/> Author Profile for Gianluigi Marchetti/ibm (Gianluigi Marchetti)	04/21/2006
<input type="checkbox"/> 060 - DEPP & CPP (Merideth Norris)	04/21/2006
<input type="checkbox"/> Author Profile for Merideth Norris/ibm (Merideth Norris)	04/21/2006
<input type="checkbox"/> DAP Infocenter zip File Available (wpsadmin)	04/21/2006
<input type="checkbox"/> Author Profile for wpsadmin/ibm (wpsadmin)	04/21/2006
<input type="checkbox"/> DEPP Problems (Domino Admin)	04/21/2006
<input type="checkbox"/> Install Portal 6 Problems (Domino Admin)	04/21/2006

Actions... Page 1 of 1 Jump to page: []

Sametime Contact List

People Options

- Work
- wpsadmin
- Gianluigi Marchetti
- Merideth Norris
- Phil Kregor


Who Is Here

- wpsadmin

People Finder

Close Record

Person Record Organization



Gianluigi Marchetti
gigi@ibm.com

Reporting Structure

Name	Job Title	Phone	Dept
Gianluigi Marchetti			
No direct reports were found.			

Close Record

Lotus Document Viewer


New Response Add Topic to Interest Profile Author's Profile Cancel

Discussion
Main Topic

Gianluigi Marchetti/ibm
04/21/2006 04:48 PM

Subject: CPP Draft Lab for Review
Category: CPP, DRAFT, LAB

Draft of the CPP Lab for review.

 [WP60_beta_Labs_CPP.doc](#) Type: application/msword
Name: WP60_beta_Labs_CPP.doc

Home Administration Documents Web Content Messaging Site Map



DEPP – Domino Extended Products Portlets

What is included in WebSphere Portal

- Most found on the Domino Integration > Welcome site area

- ✓ Sametime Contact List
 - ✓ Who Is Here
 - ✓ Lotus Web Conferencing
 - ✓ Lotus Document Viewer
 - ✓ Lotus Notes View
 - ✓ Domino Web Access
 - ✓ Inline QuickPlace
 - ✓ My Lotus QuickPlaces
 - ✓ Domino Document Manager
 - ✓ People Finder
 - ✓ Domino Application (catalog)
-
- ✓ On the Portlet Catalog
 - ✓ Support for Lotus Quickr
 - ✓ Support for Lotus Connections

Welcome to Domino Integration
View Domino Documents, Lotus Sametime, QuickPlaces, and Web Conferences.

Need Help?
Go to the IBM Information Center. The information center has complete and in-depth product information.

Try IBM developerWorks. developerWorks features articles about various topics related to IBM WebSphere Portal.

Need Support?
IBM Software Support
IBM Newsgroups

Need More Information?
Get additional information and product news. Visit the IBM WebSphere Portal home page

Other Links
IBM.com
IBM Software Home Page
IBM WebSphere
IBM Software Support
WebSphere Portal Zone
Partner World
Linux at IBM

IBM WebSphere Portal provides additional portlets that you can use to integrate messaging (mail and calendar capabilities) into your site. [To learn more about Messaging options, go to the Messaging page.](#)

Home Administration Documents Web Content Messaging Site Map

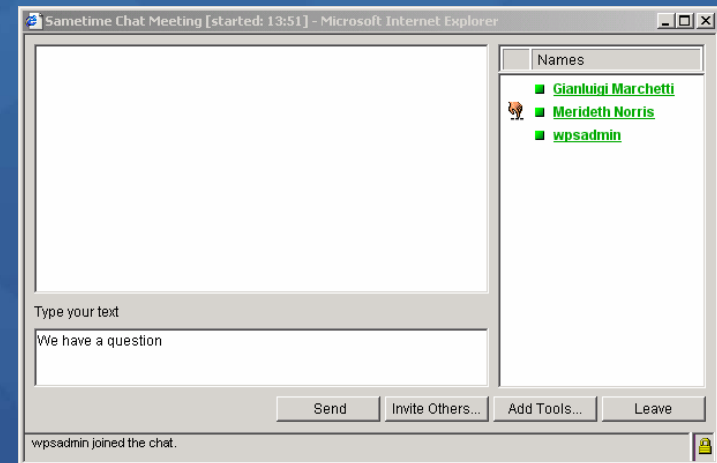
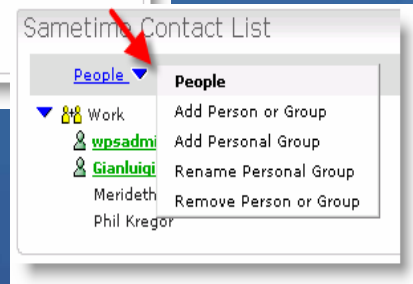
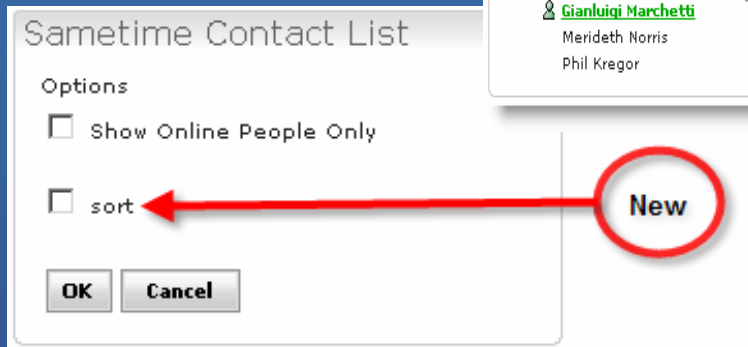
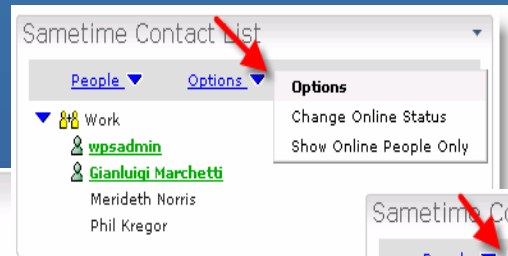
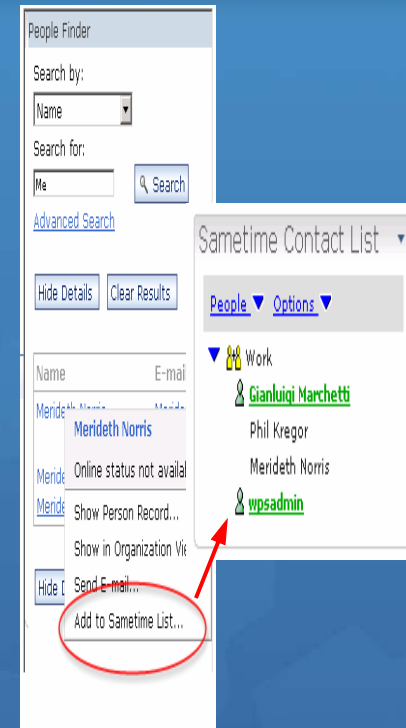
DEPP – Sametime Portlets

- Provide:
 - ✓ The ability to chat with someone from within the Portlet through their support for integrated people awareness.
- Consists of:
 - ✓ Sametime Contact List
 - ✓ Who Is Here
 - ✓ Lotus Web Conferencing



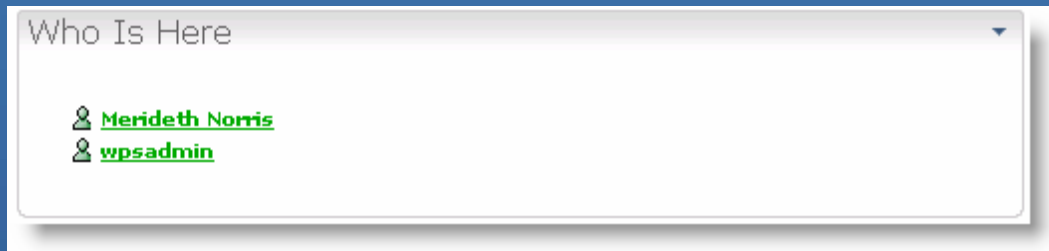
DEPP – Sametime Contact List

- Formerly Lotus Instant Messaging Contact List
- Displays an inline list of online people
- Allows the user to chat online or include others in online meetings



DEPP – Who is Here




- Place based
- Displays dynamic list of people on that page
- Ability to associate awareness with a virtual page
- Shows who else are looking at the same page





TIP: Not recommended for use on pages with high traffic.



DEPP – Lotus Web Conferencing

-  Integrates Web Conferencing e-Meetings into the portal in a seamless manner
-  Display list of scheduled, active, and finished meetings
-  View meeting details in the portal

Lotus Web Conferencing

 **New Meeting** 

Find a meeting that is:




Scheduled

Show All

Search by meeting name or moderator:

For an unlisted meeting, enter the entire meeting name.

1 - 2 of 2

When	Meeting Name	Moderator
5/23/06 3:00 PM	Portal 6 Beta Meeting	 wpsadmin 
6/26/06 3:00 PM	Department 3LX Quarterly Meeting	 Merideth Norris

Times shown use your computer's settings.


1 - 2 of 2

Lotus Web Conferencing

Portal 6 Beta Meeting - Meeting Details

☞ Times shown use your computer's settings.

Essentials

Meeting name: Portal 6 Beta Meeting
 Start time: 5/23/06 3:00 PM
 Duration: 01 Hours 00 Minutes
 Has password: Yes
 Status: Scheduled
 Moderator:  wpsadmin
 Encrypted: No
 Recorded: No

Locations

Participants can attend from the following servers:
<http://wpslut.ibm.com:80/stconf.nsf/meeting/1C921F008A9268E4852571560066CDCB?OpenDocument>

Tools

Whiteboard
 Screen sharing
 Meeting room chat
 Polling
 Send Web page

Detailed Description

No description

Attachments

No attachments

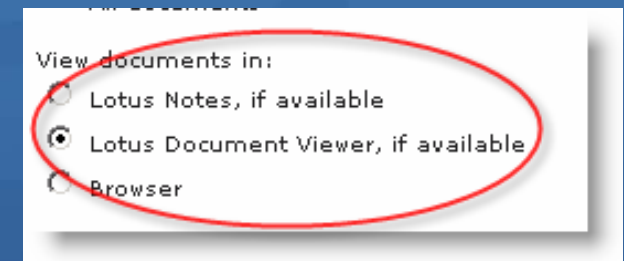
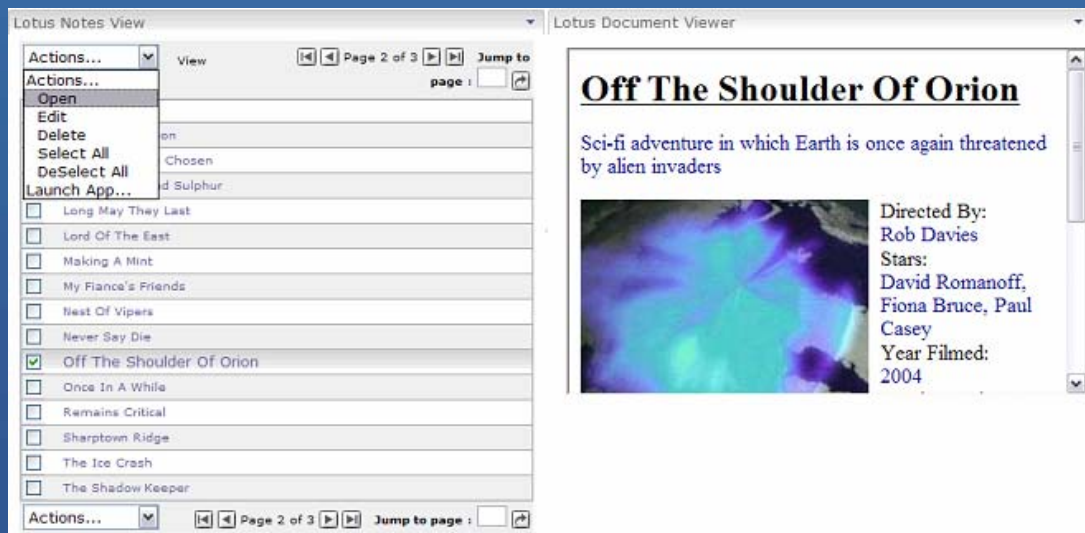
Participants

TIP: Not recommended for use on pages with high traffic.



DEPP – Lotus Document Viewer

- Displays documents opened from Lotus Notes View and My Lotus QuickPlaces portlets
- Keeps user experience in Portal
- Placing portlet on same page wires it to Notes View



DEPP – Lotus Notes View

- Formerly Notes and Domino
- Display any view in any web-enabled database
- Can launch Notes client instead of browser to read or edit documents
- Built-in People Awareness

Lotus Notes View Portlet

Actions... Page 1 of 1 Jump to page :

	Subject	Who ^	Date	Time	Size
<input type="checkbox"/>	Re: Testing Portal Group Email	Gianluigi Marchetti	04/20/2006	09:41 AM	1,546
<input type="checkbox"/>	Re: Testing Portal Group Email	Merideth Norris	04/20/2006	09:51 AM	1,519
<input type="checkbox"/>	Re: Testing Portal Group Email	Phil Kregor	04/20/2006	09:52 AM	1,464
<input type="checkbox"/>	Your place, portal6, has been created	portal6	04/19/2006	01:16 PM	1,090
<input type="checkbox"/>	The first email on the New Server	wpsadmin	04/18/2006	11:59 AM	1,232

Actions... Page 1 of 1 Jump to page :



DEPP – Lotus Notes View

- Sorting is improved – tied to column sort property in NSF
- Improved portlet user interface
- Uses portal style sheets
- Support for WSRP

The screenshot shows a 'Lotus Notes View Portlet' window. It features a table of notes with columns for Subject, Who, Date, Time, and Size. The table contains five rows of notes. The third row is selected, and its 'Actions...' menu is open, showing options like Open, Edit, Delete, Select All, DeSelect All, New Memo, and Launch App... Red callouts point to various UI elements: 'Replaced twisty icon with checkbox and action list' points to the checkboxes in the table; 'Updated selection model - each row is highlighted when checked' points to the highlighted row; 'Common action controls added to the top and bottom of the portlet' points to the 'Actions...' dropdowns; 'Jump to page' points to the 'Page 1 of 1' and 'Jump to page' controls; and 'Added Select and DeSelect All' points to the 'Select All' and 'DeSelect All' options in the menu.

Subject	Who	Date	Time	Size
<input type="checkbox"/> Re: Testing Portal Group Email	Gianluigi Marchetti	04/20/2006	09:41 AM	1,546
<input type="checkbox"/> Re: Testing Portal Group Email	Meride Norris	04/20/2006	09:51 AM	1,519
<input checked="" type="checkbox"/> Re: Testing Portal Group Email	Phil Kregor	04/20/2006	09:52 AM	1,464
<input type="checkbox"/> Your place, portal6, has been created	portal6	04/19/2006	01:16 PM	1,090
<input type="checkbox"/> The first email on the New Server	wpsadmin	04/18/2006	11:59 AM	1,232

DEPP – Lotus Notes View - Continued

- The new launch application feature in Lotus Notes View opens a document into a separate Lotus Document Viewer portlet instead of into a separate browser window.

Lotus Notes View Portlet

Actions... Page 1 of 1 Jump to page :

	Subject	Who ^	Date	Time	Size
<input type="checkbox"/>	Re: Testing Portal Group Email	Gianluigi Marchetti	04/20/2006	09:41 AM	1,546
<input type="checkbox"/>	Re: Testing Portal Group Email	Merideth Norris	04/20/2006	09:51 AM	1,519
<input checked="" type="checkbox"/>	Re: Testing Portal Group Email	Phil Kregor	04/20/2006	09:52 AM	1,464
<input type="checkbox"/>	Your place, portal6, has been created	portal6	04/19/2006	01:16 PM	1,090
<input type="checkbox"/>	The first email on the New Server	wpsadmin	04/18/2006	11:59 AM	1,232

Actions... Page 1 of 1 Jump to page :

Lotus Document Viewer

New ▾ Reply ▾ Forward ▾ Forward ▾ Move ▾ Follow Up ▾ Tools ▾

From: Phil Kregor/ibm@ibm
To: wpsadmin@ibm.com
cc: "Portal Users Group" <Portal_Users_Group@ibm.com>

Date: Thursday, April 20, 2006 09:52AM
Subject: Re: Testing Portal Group Email

Email received.
 Phil

----- Original Message -----

Lotus Notes View Portlet

Actions... Page 1 of 1 Jump to page

Actions...
 Open
 Edit
 Delete
 Select All
 DeSelect All
 New Memo
 Launch App...

	Who ^	Date	Time	Si	
<input type="checkbox"/>	portal Group Email	Gianluigi Marchetti	04/20/2006	09:41 AM	1,546
<input type="checkbox"/>	ortal Group Email	Merideth Norris	04/20/2006	09:51 AM	1,519
<input checked="" type="checkbox"/>	ing Portal Group Email	Phil Kregor	04/20/2006	09:52 AM	1,464
<input type="checkbox"/>	Your place, portal6, has been created	portal6	04/19/2006	01:16 PM	1,090
<input type="checkbox"/>	The first email on the New Server	wpsadmin	04/18/2006	11:59 AM	1,232

Actions... Page 1 of 1 Jump to page :

DEPP – Lotus Notes View – Continued

Configuring

- Able to select PortletType via configuration mode, used to be only a configuration parameter
- My* PortletTypes automatically detect user's mail file (using LDAP)
- Determines appearance and function of portlet
 - ✓ **My Lotus Notes Mail**
 - ✓ **My Lotus Notes Calendar**
 - ✓ **My Lotus Notes To Do**
 - ✓ **Lotus Notes Discussion**
 - ✓ **Lotus Notes TeamRoom**
 - ✓ **Lotus Notes Mail**
Any view of the Notes Mail database specified in the Displays Domino Directory's Person document for the authenticated user in the portal
 - ✓ **Lotus Notes View**
Users can add multiple views to a View menu, and the views can be from multiple Notes databases

Lotus Notes View Portlet

Current the Portlet Type is **NOTESVIEW**

Please select the Portlet Type

- NOTESVIEW
- MYCALENDAR
- MYINBOX
- MYTODO
- NOTESVIEW**
- NOTESMAIL
- NOTESDISCUSSION
- NOTESTEAMROOM

Apply Next Done

Lotus Notes View for HelpDesk Application

Portlet title:
Lotus Notes View for HelpDesk Application

Source
Server:
camtckds02.lotus.com

CAMTC02/TECHNET/LTN
CAMTCHUB01/TECHNET/LTN
CAMTCKDS01/TECHNET/LTN
CAMTCKDS02/TECHNET/LTN
camtcqp01/TECHNET/LTN
CAMTCS01/TECHNET/LTN

Database filename:
HelpDesk.nsf

Database:
Administration Requests (R5)
Alle HelpDesk
bookmark.nsf
Call Tracking (Portal)
Call Tracking
Call Tracking
CAMTCKDS02 Stats/LTN
CRM - Portal

View:

By Reference Number
By Status
Main

View category:

Protocol:
 HTTP
 HTTPS (SSL)
 Detect protocol automatically

OK Next Cancel

DEPP – Lotus Notes View - Continued

- Configuring Views
 - Adjustable column widths
 - Specify column width in edit mode
 - Enhanced portlet edit/configuration mode
 - Configuration mode remains available to administrator when portlet added by end user
 - Administrator can control which Notes views can be selected

Columns

Available columns (and widths):

- Column <2>(2)
- LDAP OID(27)
- LDAP Name(20)
- LDAP Aliases(20)
- Notes Name(26)

Columns to display (and widths):

- LDAP Name(2)
- Notes Name(46)
- LDAP Aliases(20)

Set column width : 46 **Set width**

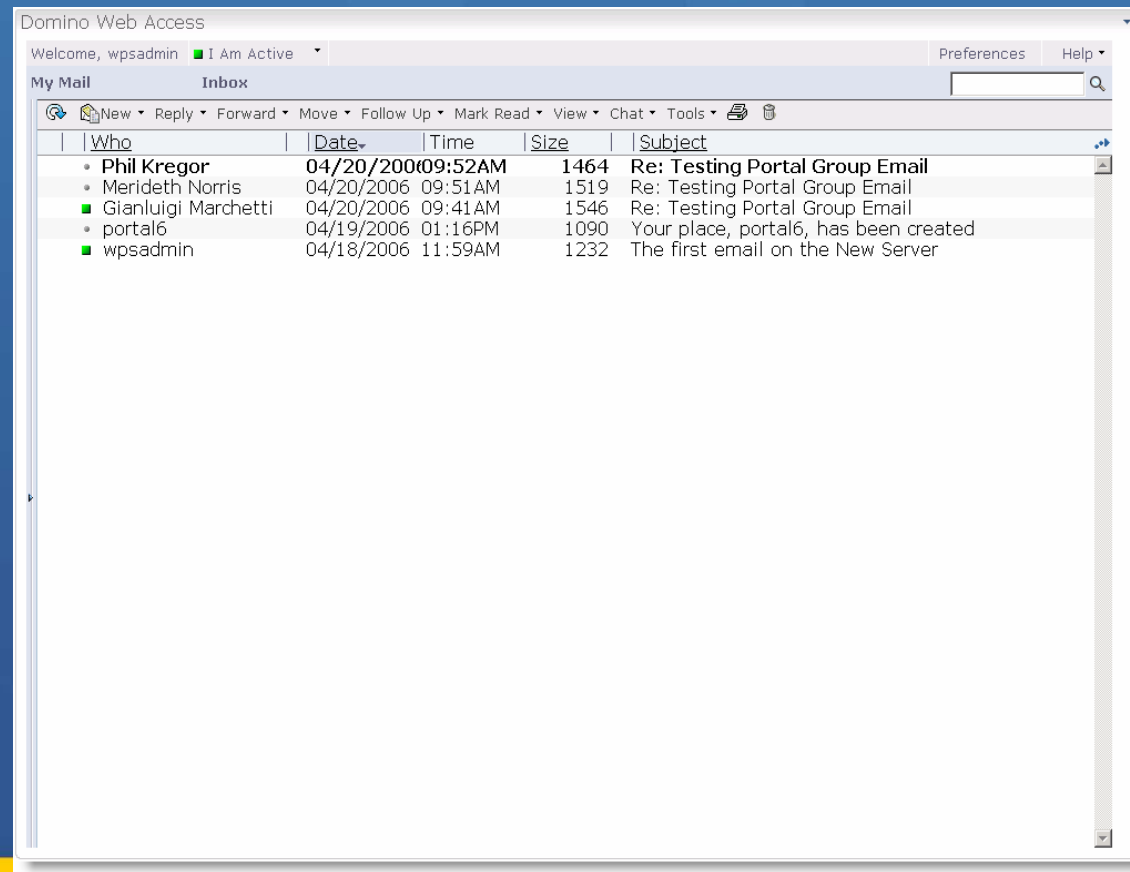
Column for showing people awareness:
(Column must contain names)

- Notes Name
- LDAP Name
- Notes Name
- LDAP Aliases



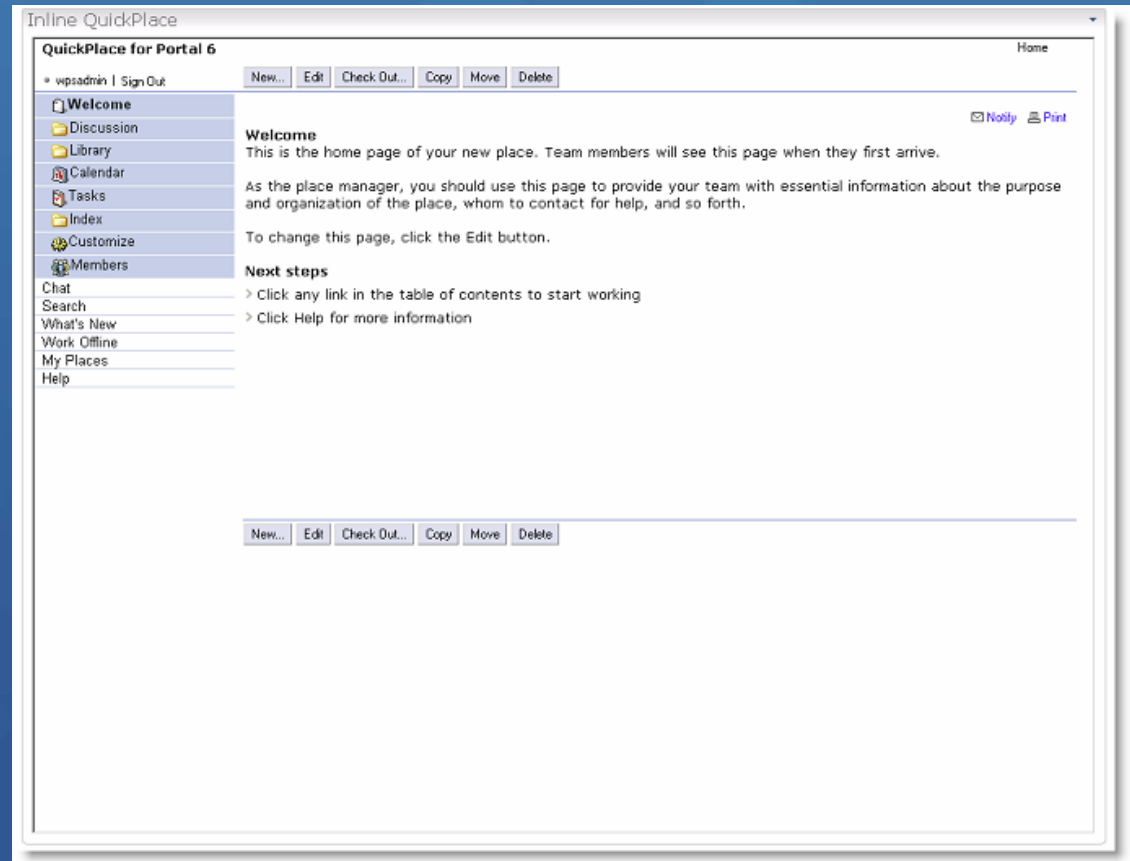
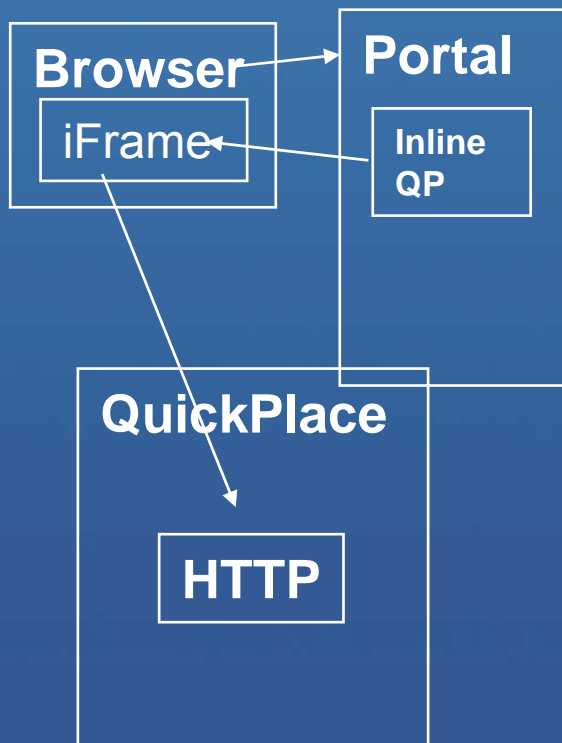
DEPP – Domino Web Access

- iFrame Portlet works in conjunction with the iNotes/Domino Web Access template
- Provides market leading messaging and PIM capabilities
- Provides all the security features of some non-browser clients
- Designed to optionally augment Notes client usage when remote
- Configuration types:
 - Welcome
 - To Do
 - Mail
 - Contacts
 - Calendar
 - Notebook
- New redirect database



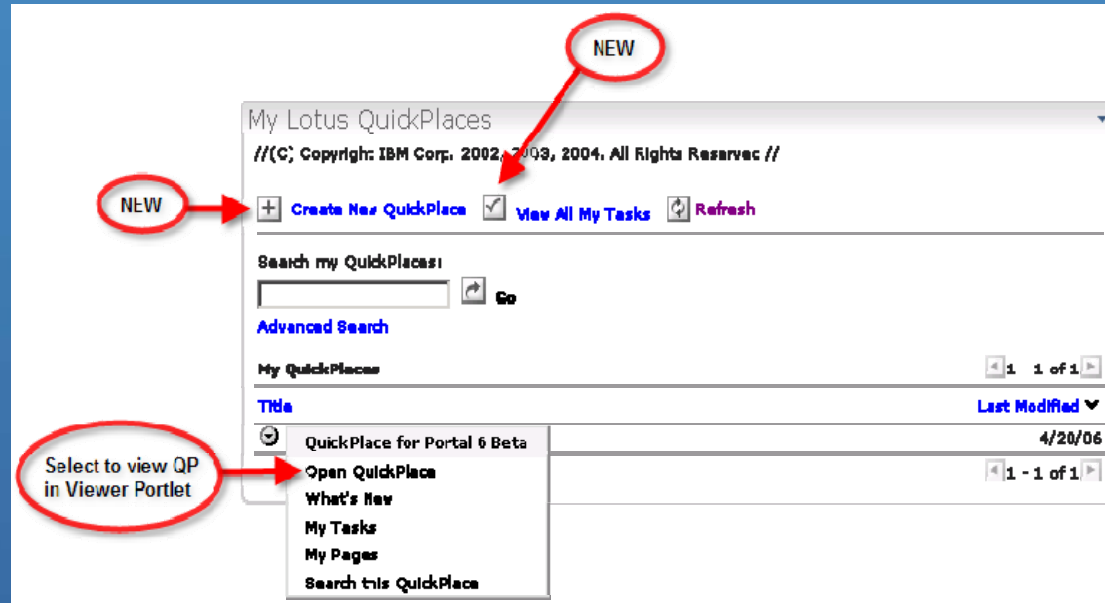
DEPP – Inline QuickPlace

- Displays any place through an iFrame in Portal
- iFrame provides native QuickPlace UI






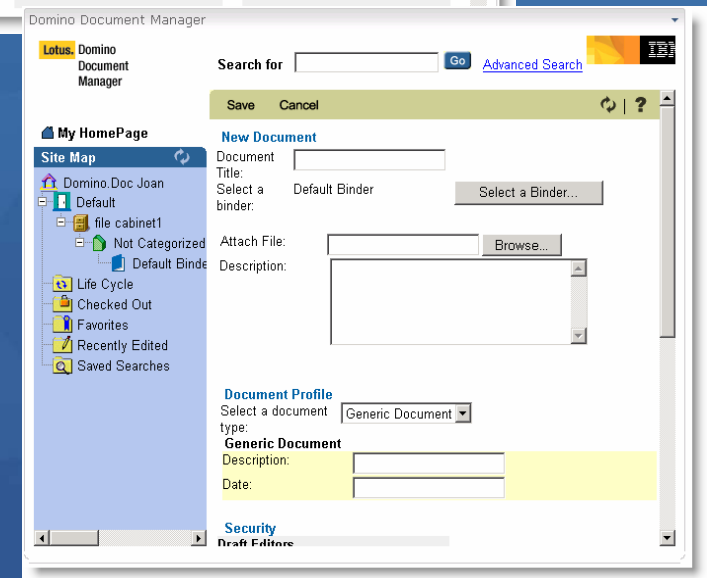
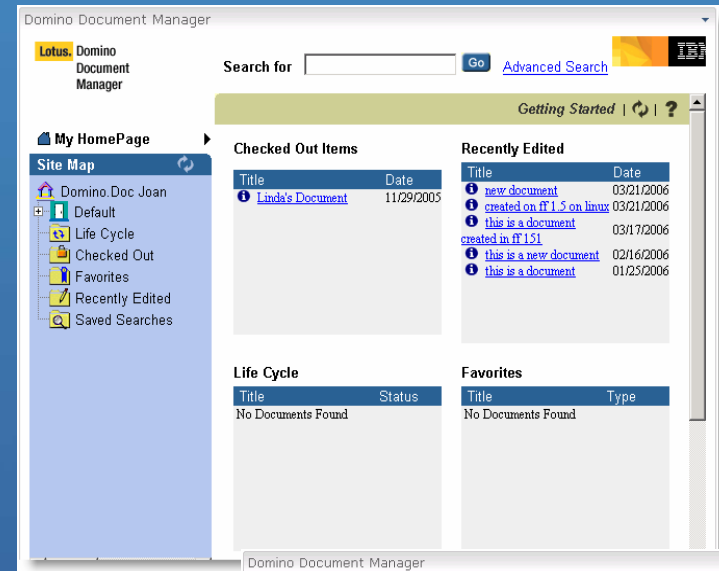
DEPP – My Lotus QuickPlaces

- Formerly My Lotus Team WorkPlaces
- Displays a list of QuickPlaces the user is a member of
- Shows detailed views about specific QuickPlaces
- Allows for cross-QuickPlace Search
- Integrated people awareness
- Create New QuickPlace feature
- View All Tasks feature



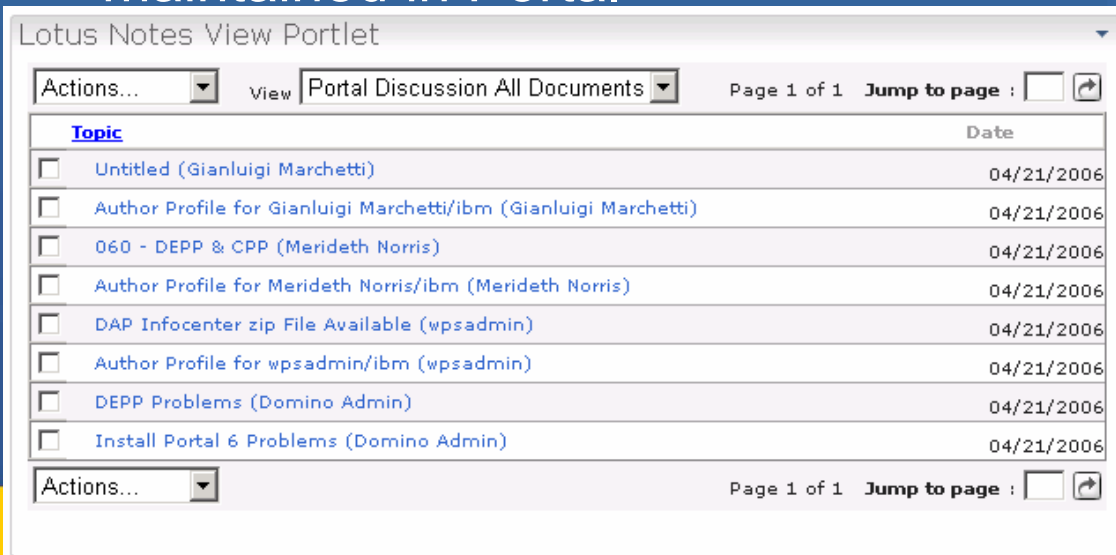
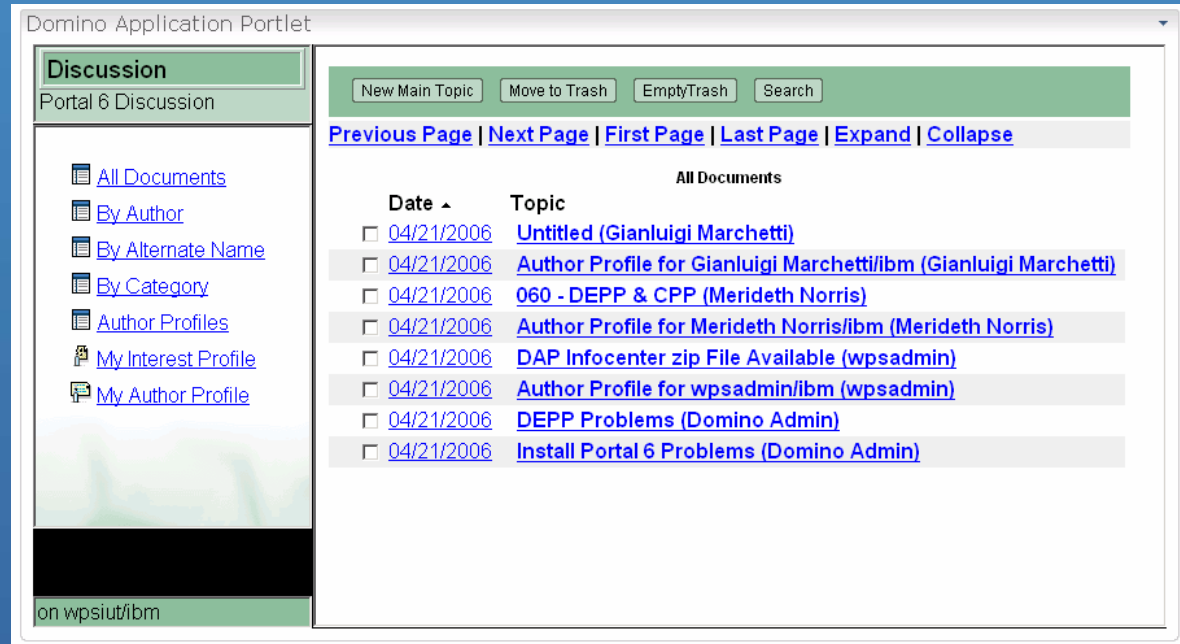
DEPP – Domino Document Manager Portlet

- 
 The Domino Document Manager (formerly Domino.Doc) portlet allows the user to perform document and file management
- 
 Displays information stored in a Notes database on a Domino server
- 
 Installed automatically with other DEPP portlets but must be placed on a page



DEPP – Domino Application Portlet (catalog)

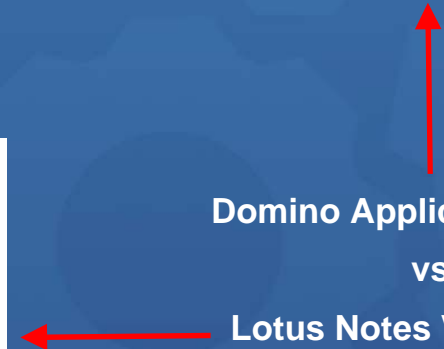
- Surface Domino Web applications in Portal
- All Domino UI and business logic preserved
- Excellent for surfacing Domino rich text
- Domino user experience is maintained in Portal



Domino Application Portlet

VS.

Lotus Notes View Portlet



DEPP – Domino Application Portlet Configuration



Portal 6 Discussion

Save Close

Source and Display Authentication Caching Rules Debug

Domino Source Server

Protocol: HTTP HTTPS(SSL) Show in edit mode

Host: wpsiut.ibm.com

Port:

Path and filename: P6Discuss.nsf

Default to user's mail file

Proxy Source Server

Host:

Port:

Frame

Width: 100%

Height: 700

Border: 1

Portlet Title: Portal 6 Discussion

Save Close

Portal 6 Discussion

Save Close

Source and Display Authentication Caching Rules Debug

Caching

Clear Cache

Caching Type: User and Application

Mime Type: image/x-bitmap image/jpeg image/pjpeg image/x-pcx image/pict

Caching Type: User

Mime Type: image/x-bitmap image/jpeg image/pjpeg image/x-pcx image/pict

User Defined Mime Types (space separated)

Caching Type: Shared

Mime Type: image/x-bitmap image/jpeg image/pjpeg image/x-pcx image/pict

URL Contains (semi-colon separated)

User Defined Mime Types (space separated)

Portal 6 Discussion

Save Close

Source and Display Authentication Caching Rules Debug

Authentication

Authentication Model:

- None (Direct Domino Authentication)
- Basic
- Session
- Single Sign-On (SSO)

Credential Vault Settings:

- Private Slot
- Shared Slot
- System Slot

System Slot Identifier:

Show in edit mode

Save Close



People Finder on the People Palette

- Corporate LDAP Directory search application for portal
- Provides both quick search and advanced search options for locating people and information about people
- People Finder portlet now appears in the People palette, so that users can find people in any context
- Other portlets can be included on the People Palette
- People Finder supports WSRP

The screenshot shows a web browser window with the following components:

- Navigation Bar:** Includes "Welcome", "My Work", "My Team", and "My Databases".
- My Lotus QuickPlaces:** A section with a search bar and a "Go" button. Below it is a table of quick places:

Title	Last Modified
Admin Place	4/24/06
QuickPlace for Portal 6 Beta	4/20/06
- Who Is Here:** A small box showing the user "wpsadmin".
- People Finder Portlet:** A portlet with a search bar and a "Search" button. Below the search bar are tabs for "Person Record" and "Organization". The "Person Record" tab is active, showing a profile for Merideth Norris with a photo and email address. Below the profile is a "Reporting Structure" table:

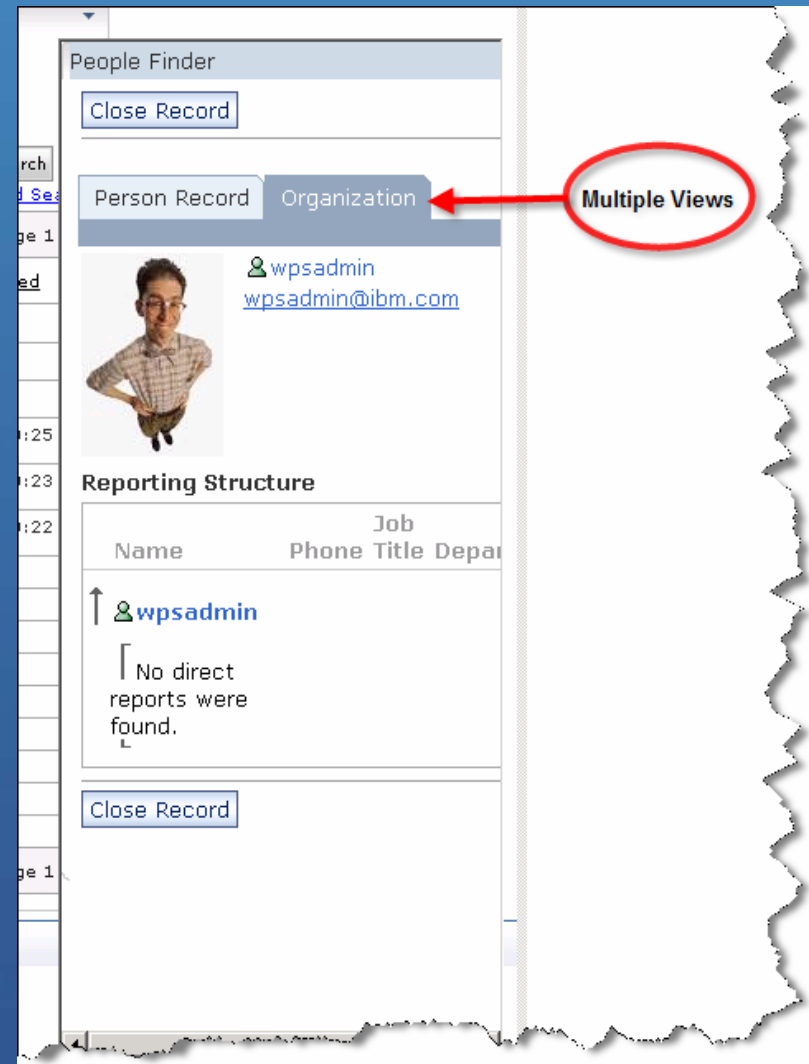
Name	Job	Phone	Title	De
Merideth Norris				

 A message below the table states: "No direct reports were found."
- Admin Place Portlet:** A portlet showing a table of contents for the "Admin Place" with items like Welcome, Discussion, Library, Calendar, Tasks, Index, Customize, Members, Chat, Search, What's New, and Work Offline.



People Finder on the People Palette

- Out of the box schema supported – inetOrgPerson
- Multiple views of information
- Customizable queries and user interfaces
- Integrated People Awareness
- Already configured on install
- Multiple views of information
 - Quick search
 - Quick search results
 - Business card results
 - Advanced Search
 - Advanced Search results list
 - Person Record View
 - Organization View



Integration Points Into Quickr

- Use available Portlets to display different places
 - **My Places Portlet**
- Subscribe to a **Quickr Feed**
 - Using a Feed Reader Portlet
- Get some content from Quickr
 - Using the **Web Clipping Portlet**
 - Using an **iFrame Portlet**
- Use the **Quickr Services API's** to custom code a Portlet

The image displays two screenshots from the IBM WebSphere Portal. The left screenshot shows the 'My Places' portlet with a list of items. The 'PortalDocs' item is circled in red, and a red arrow points from it to the right screenshot. The right screenshot shows the 'PortalDocs' library interface, which includes a search bar, a 'Create' button, and a list of documents.

IBM WebSphere Portal

Launch Home > Quickr > Search: All Sources

Welcome Getting Started Quickr Quickr RSS

My Places

Favorites My Places Public Places All

Sort by: Title Owner

PortalDocs
Owner: wpsadmin

Quickr Blog
Owner: wpsadmin

Show: 10 | 20 | 50 | 100 | All items per page

Home Administration Documents Messaging Site Map

Lotus Quickr

PortalDocs Log Out wpsadmin

Back to Home Help

PortalDocs Customize

Library

PortalDocs
Create, update, and manage documents

Views: Draft Views Shared Views Personal Views

You are in PortalDocs > Navigate by categories

1-2 of 2

Sort by Name Author Last Modified

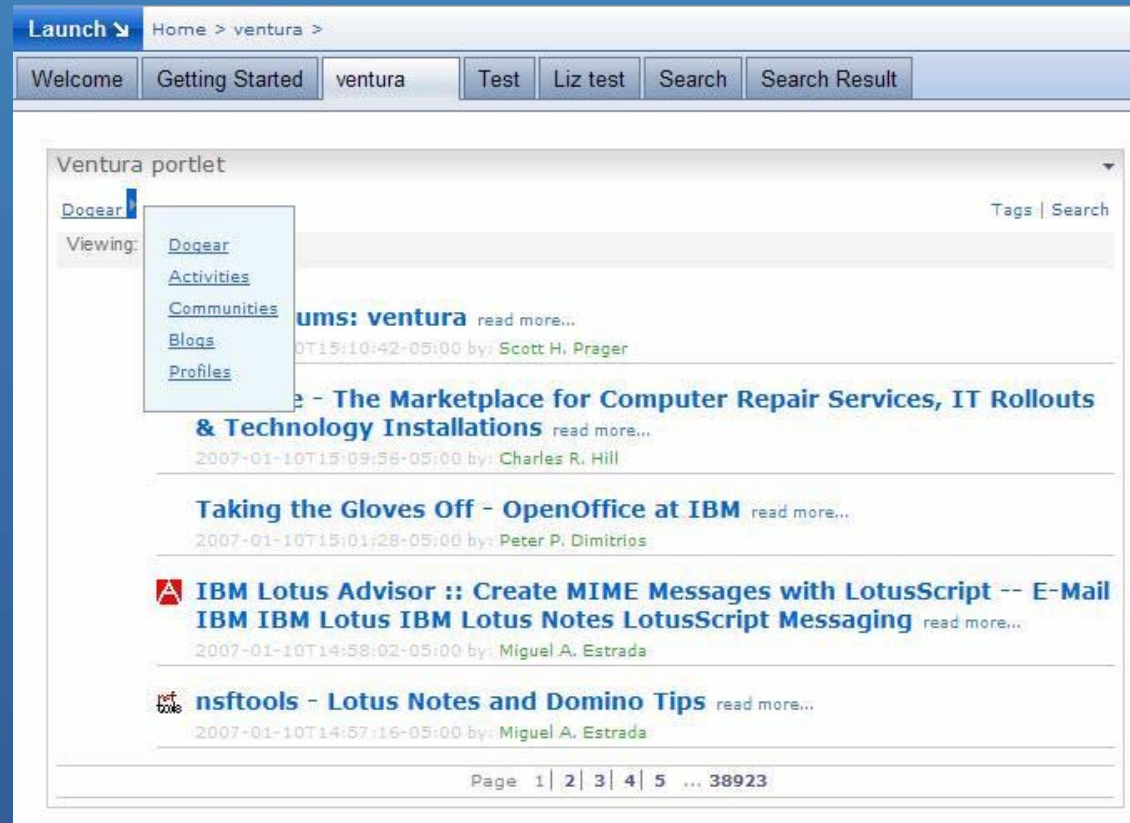
Find Create

Upload Edit Library Properties Manage Library Elements...

About This Library

Lotus Connections and WebSphere Portal

- One portlet
- Can change to five different views
 - Dogear
 - Activities
 - Communities
 - Blogs
 - Profiles
- Some views have additional configuration options
 - E.g., Dogear view can be filtered to show your bookmarks, all bookmarks, popular bookmarks



The screenshot displays the Lotus Connections WebSphere Portal interface. At the top, there is a navigation bar with a "Launch" dropdown and a breadcrumb trail "Home > ventura >". Below this is a secondary navigation bar with tabs for "Welcome", "Getting Started", "ventura", "Test", "Liz test", "Search", and "Search Result". The main content area features a "Ventura portlet" with a "Dogear" view selected. A dropdown menu is open, showing options for "Dogear", "Activities", "Communities", "Blogs", and "Profiles". The portlet content displays a list of articles, including "Communities: ventura", "The Marketplace for Computer Repair Services, IT Rollouts & Technology Installations", "Taking the Gloves Off - OpenOffice at IBM", and "IBM Lotus Advisor :: Create MIME Messages with LotusScript -- E-Mail". The bottom of the portlet shows a pagination bar with "Page 1 | 2 | 3 | 4 | 5 ... 38923".



WebSphere Portal

- **WebSphere Portal v6.0.x** 協同作業功能與架構介紹
- 如何使用**Portal**去整合既有的**Lotus Domino** 環境
- 如何利用各式**portlet**去整合**Lotus Domino**資料庫
- 如何結合**Portal**功能去設計協同應用
- 如何設計**Domino portlet**應用程式



The Challenge

- Provide access to Notes and Domino Web applications for users of the corporate intranet portal
- Considerations
 - Notes application has extensive client side logic that needs to be utilized
 - Domino Web application has extensive....
 - Time constraint



Integration Considerations

- ① What depth of integration is required?
 - User experience
 - Reuse existing application assets
- ① What Domino services can be leveraged?
- ① What portlet development techniques are available?
- ① What is the effort required for integration?
- ① What functionalities can be implemented within a portal?



WebSphere Portal

- **WebSphere Portal v6.0.x** 協同作業功能與架構介紹
- 如何使用**Portal**去整合既有的**Lotus Domino** 環境
- 如何利用各式**portlet**去整合**Lotus Domino**資料庫
- 如何結合**Portal**功能去設計協同應用
- 如何設計**Domino portlet**應用程式



RSS Portlet

- How does it work? – Just an Example!!
 - Create a Page using Domino Designer, set it as HTML (e.g. News.RSS).
- Include some default tags to specify the content is a RSS compliant XML
- Embed a view and specify that it should be displayed as HTML:

```

<?xml version="1.0" encoding="utf-8" ?>
<rss version="2.0">
<channel>
  <title><Computed Value></title>
  <link><Computed Value></link>
  <lastBuildDate><Computed Value></lastBuildDate>
  <description><Computed Value></description>
  <language><Computed Value></language>
  <Computed Value>
  <docs><Computed Value></docs>
  <generator>Lotus Domino</generator>
  <Computed Value>
  <Computed Value>
  <Computed Value>
  <Computed Value>
  <Computed Value>
  <Computed Value>
  </channel>
  <item><link>http://domino/rss.nsf/0/435D7FBB9DEF0FA1832
  </rss>

```

Web Access	Display	Using HTML	▼
	Lines to display	25	↕ <input type="checkbox"/> Use default
		<input checked="" type="checkbox"/> Use views selection margin property	

- Simply configure the Portal RSS Portlet to point to:
http://<domino_hostname>:<port>/<domino_database>/news.rss



RSS Portlet

- So, after all, what do you have:
 - A native, common Notes application to include and manage data (news, calendar entries, etc.).
 - A few (2) design elements to publish the application content in RSS format
 - A complete, Domino based RSS feed system!
- A more powerful example is the Domino Blog application, which uses RSS to manage and publish Domino based Blogs. You can find (and study) it at:
<http://www.dominoblog.com>



Domino Portlets with WebSphere Portlet Factory

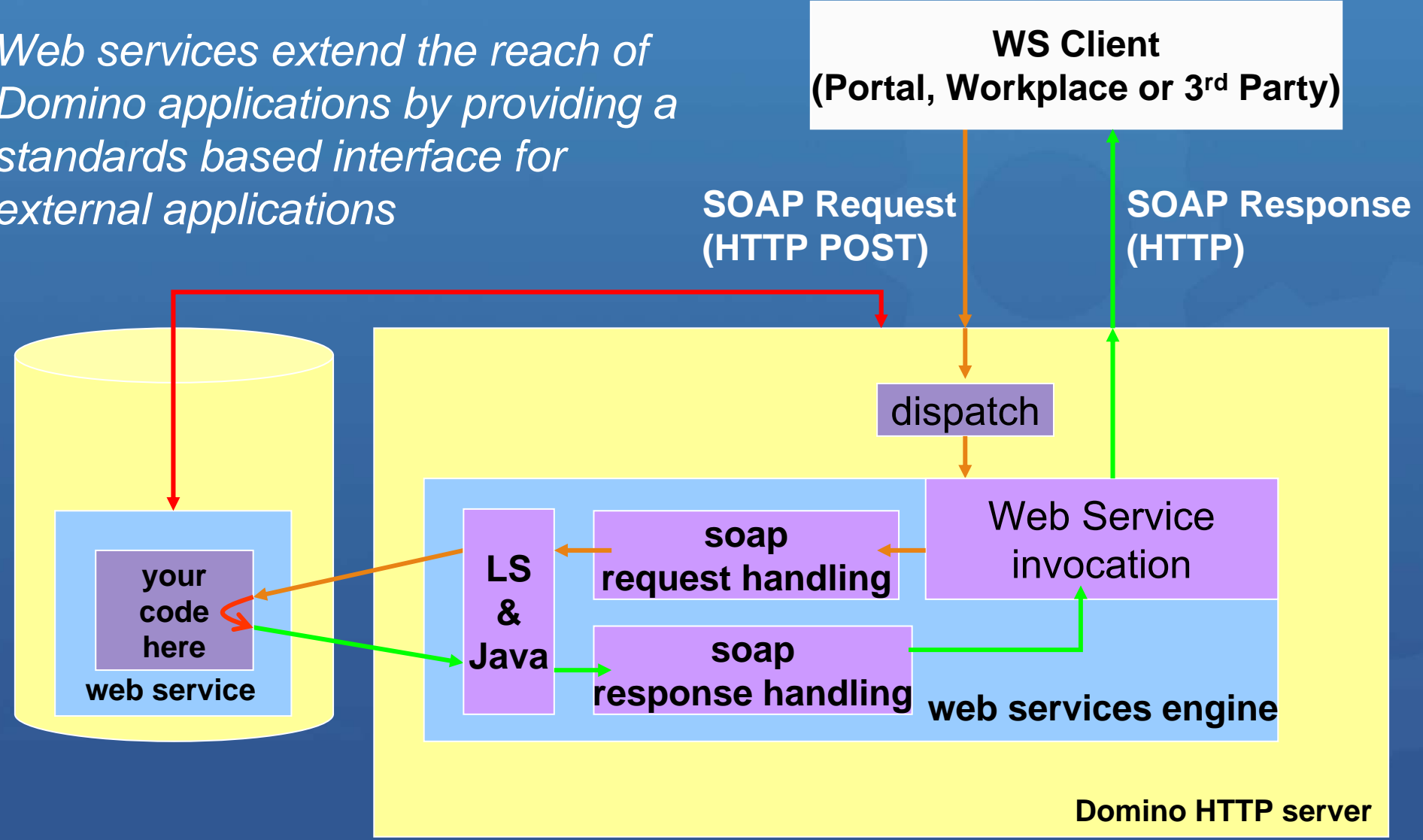
- ① WebSphere Portlet Factory products
 - Portlet Factory for JSR-168 Portals
 - Dedicated portlet creation environment that streamlines the development, deployment, and maintenance of customized portlets for WebSphere Portal
- ② Steps to build a Domino portlet with WebSphere
 1. Install WebSphere
 - ✓ Over RAD or an existing Eclipse environment
 - ✓ With an Eclipse environment
 2. In RAD
 - i. Create a WebSphere WebApp Project
 - ii. Create a WebSphere Model in the WebApp Project previously created
 - iii. Use WebSphere builder to create a Portlet
 3. Deploy Portlet to a portal server



Portlets that consume Domino Web Services

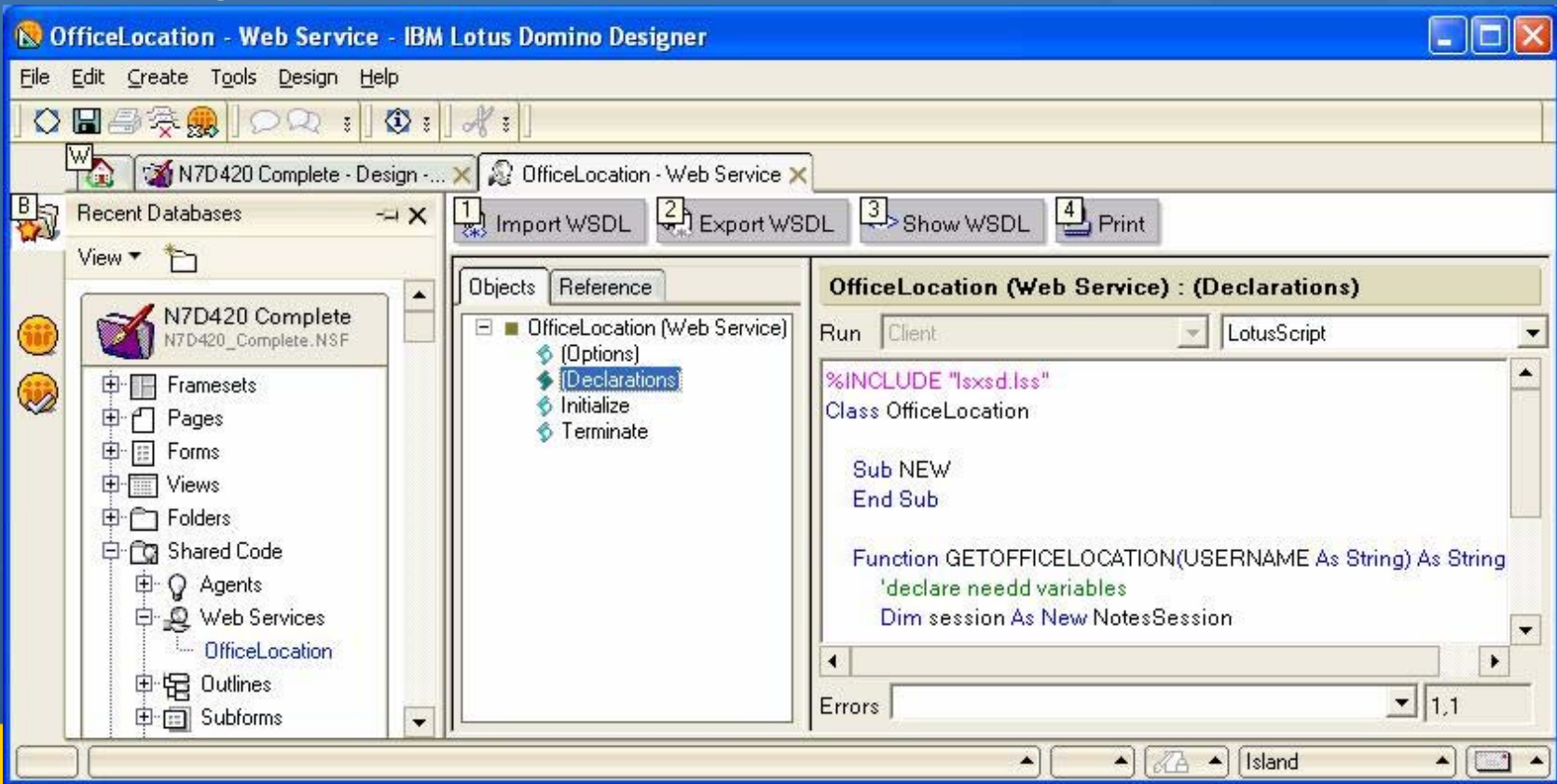
Web Services in Domino 7

Web services extend the reach of Domino applications by providing a standards based interface for external applications



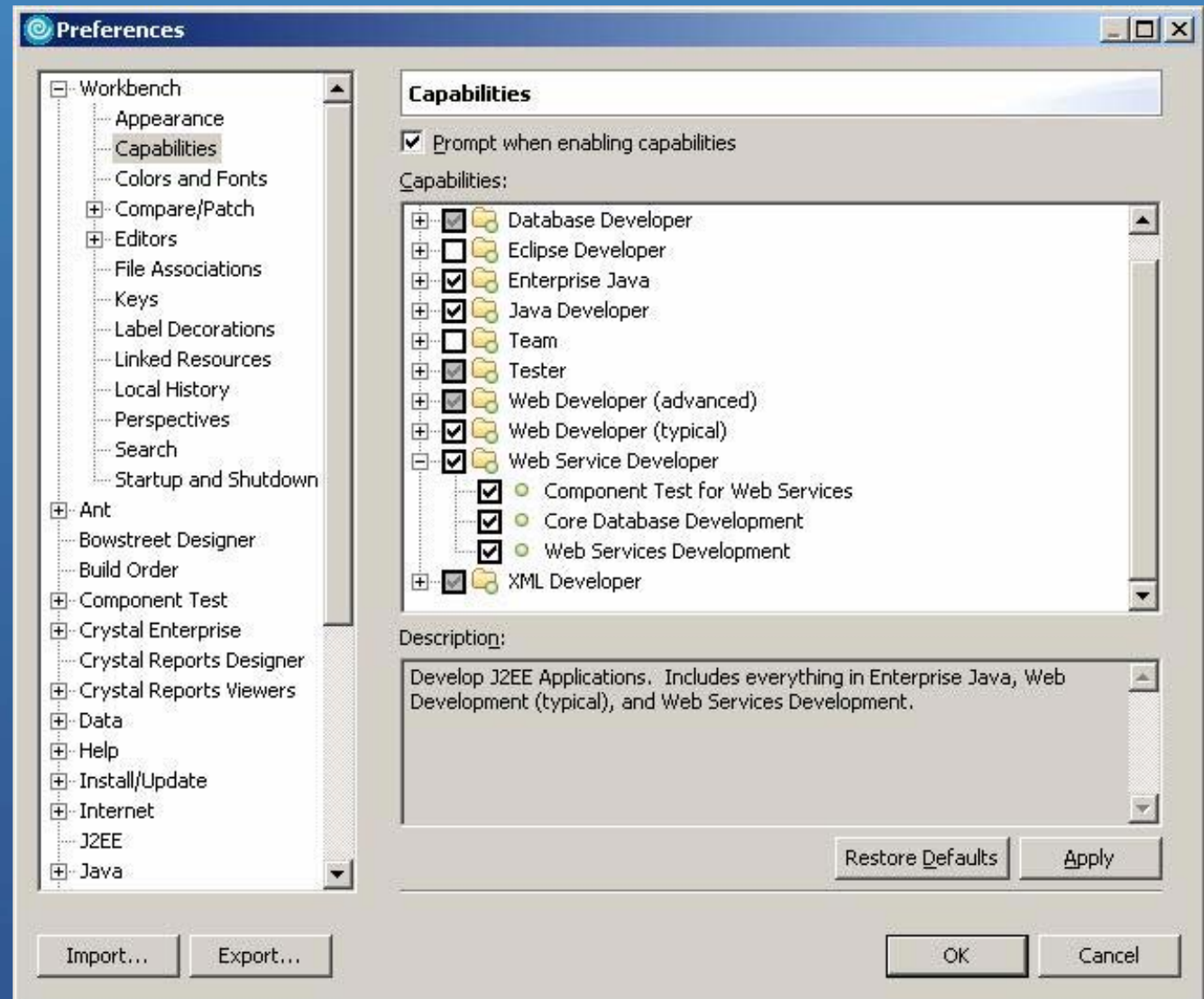
Portlets that consume Domino Web Services

- 🕒 Web Services in Domino 7
 - New design element under Shared Code
 - Coded in Domino Designer like an Agent
 - Can be created by you or created based on an Imported WSDL file



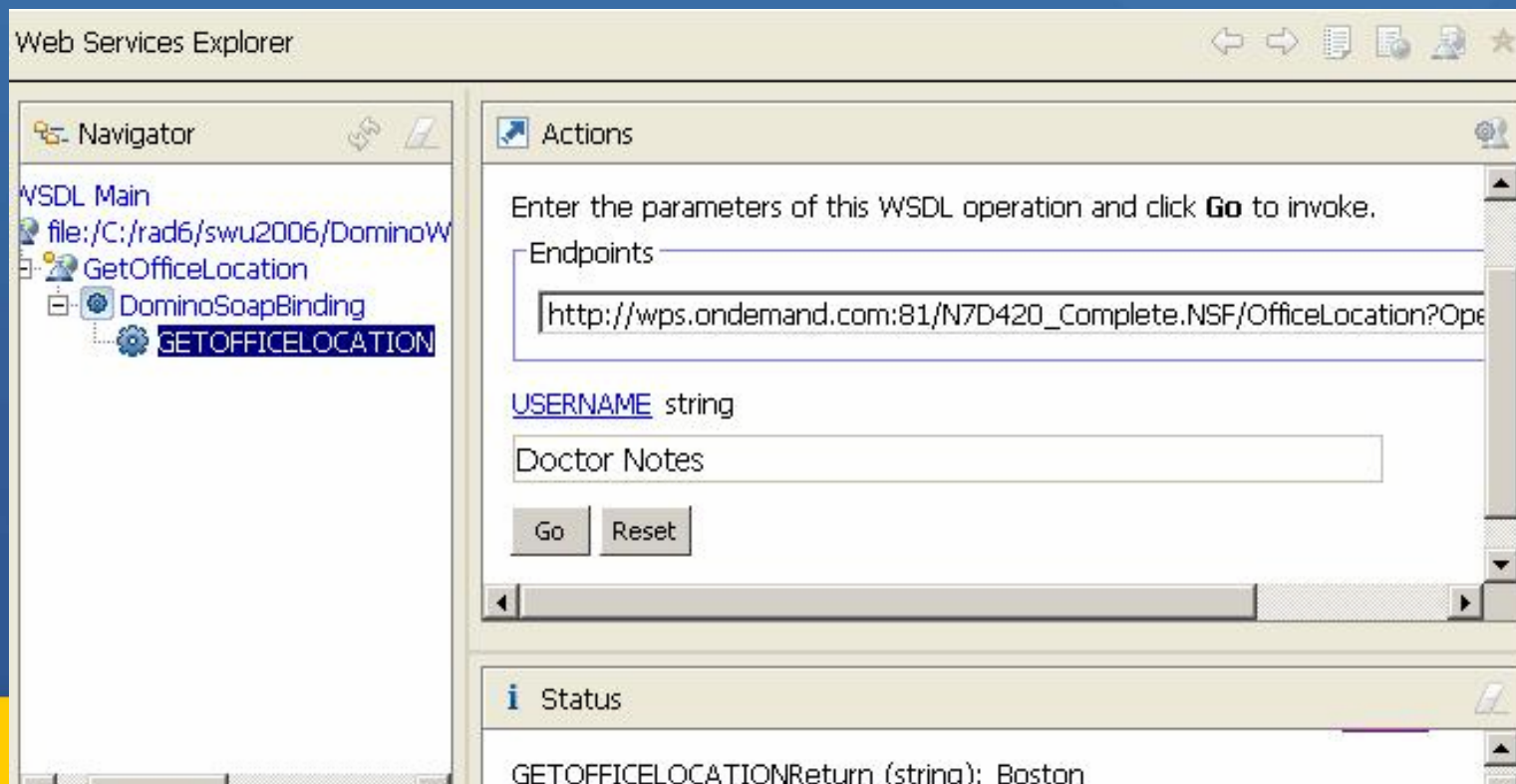
Portlets that consume Domino Web Services

- Main steps to create the consumer Portlet
 - In RAD don't forget to enable Web Services Capabilities in Preferences!!!



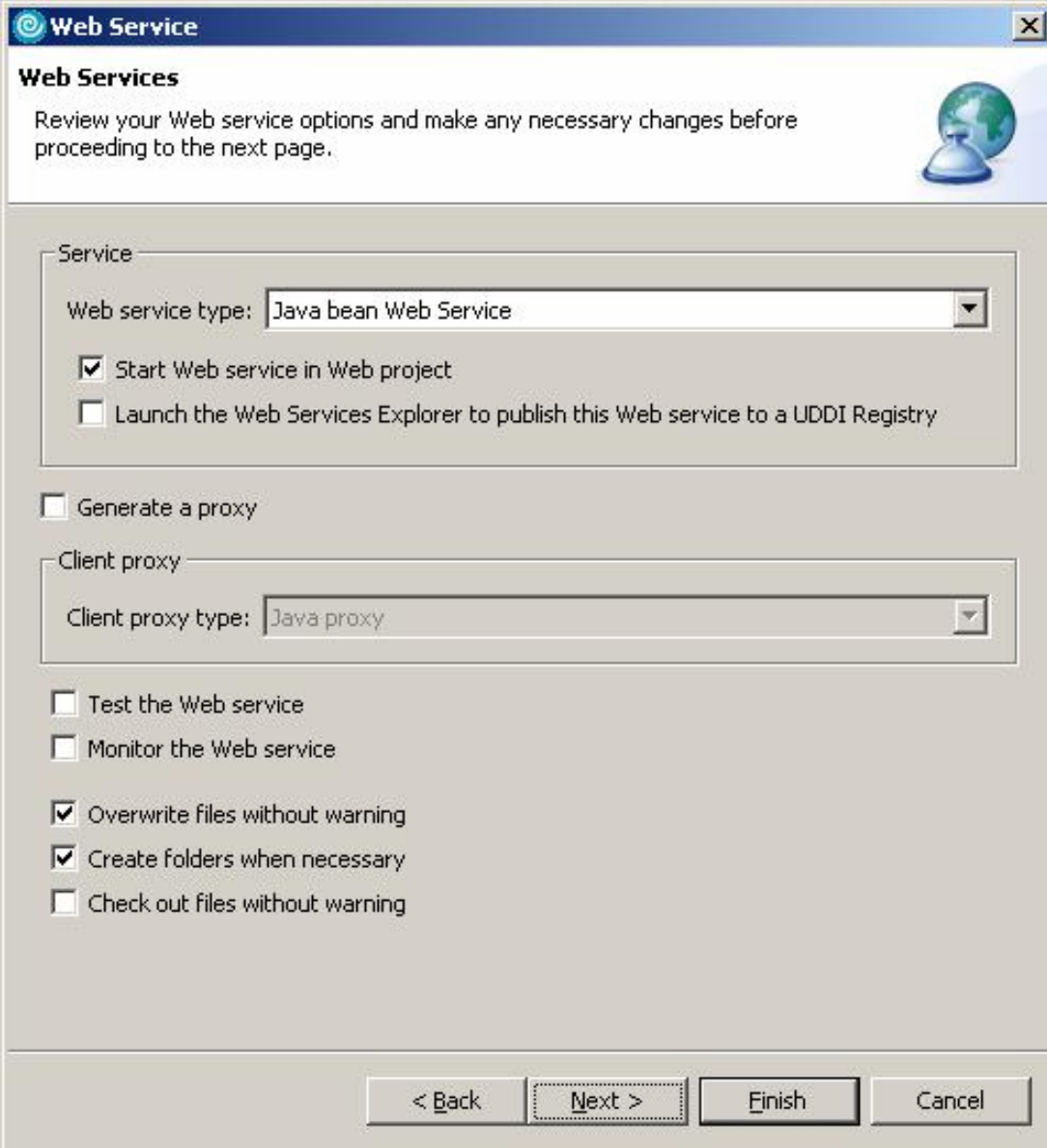
Portlets that consume Domino Web Services

- Main steps to create the consumer Portlet...
 - Create a Portlet project: Choose Web Services
 - ✓ Tip: Test Domino connection through Web Services Explorer
 - Import Domino WSDL into Portlet project
 - Select WebServices > Test with WebServices



Portlets that consume Domino Web Services

- Main steps to create the consumer Portlet...
 - Create JavaBean Proxy to connect WebServices Endpoint (Domino)



Web Service

Web Services

Review your Web service options and make any necessary changes before proceeding to the next page.

Service

Web service type:

Start Web service in Web project

Launch the Web Services Explorer to publish this Web service to a UDDI Registry

Generate a proxy

Client proxy

Client proxy type:

Test the Web service

Monitor the Web service

Overwrite files without warning

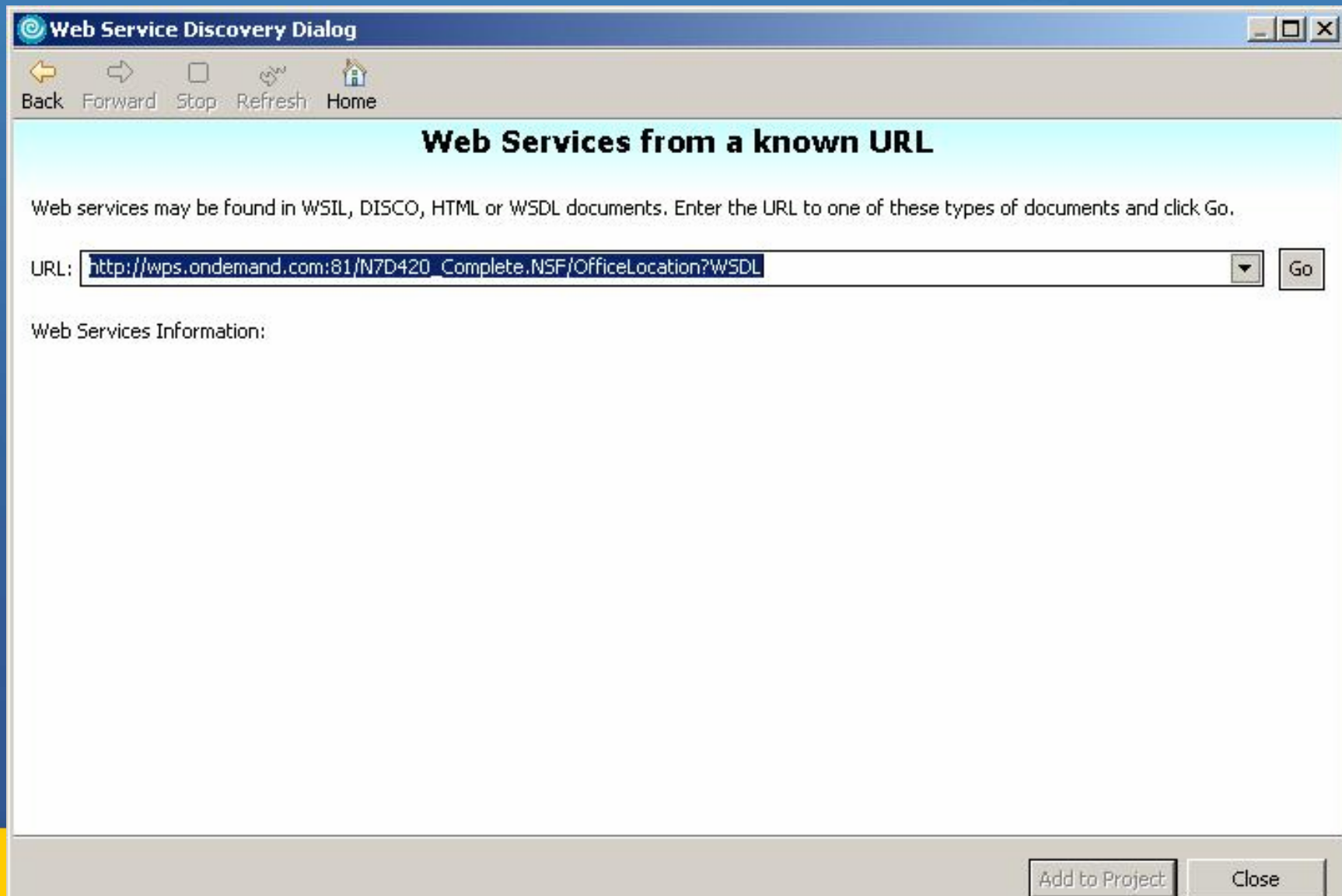
Create folders when necessary

Check out files without warning

< Back Next > Finish Cancel

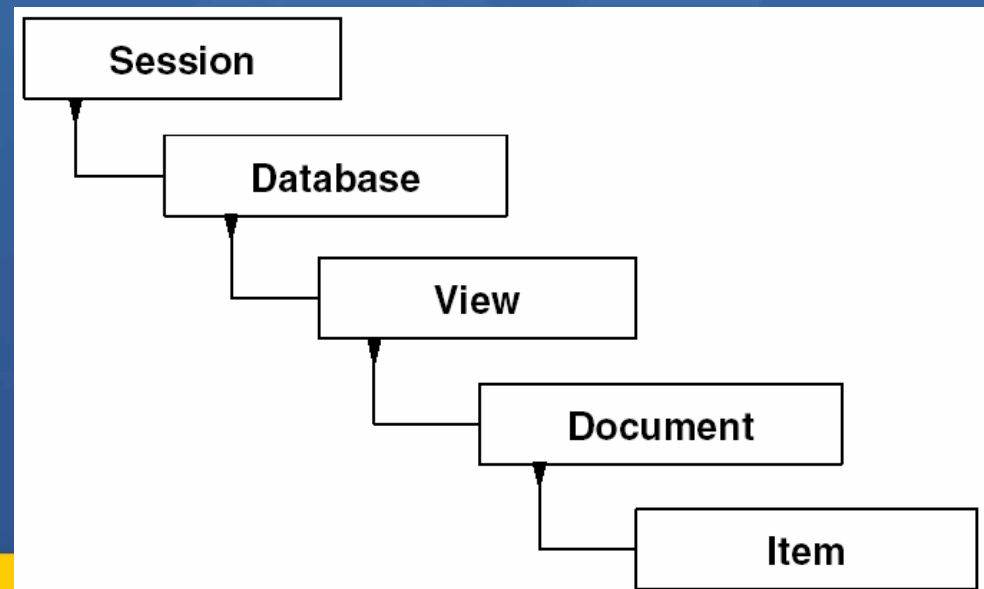
Portlets that consume Domino Web Services

- Main steps to create the consumer Portlet...
 - Select Domino URL



Domino Java API

- Provides Java access to the Domino backend classes
 - Leverage data, business logic and services
 - Supports local and remote (CORBA) access
- Benefits
 - Ability to manage sessions to maximize scalability
 - Pool commonly used objects



Domino Java API

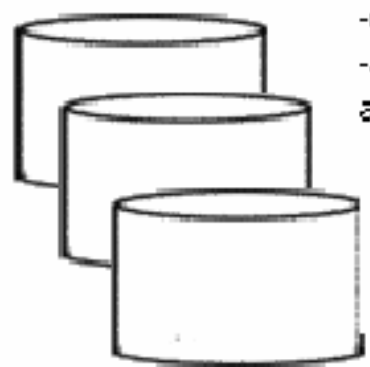
Domino Server

-SSO configuration

Domino Object Model environment

Database

- session
- database
- view
- document
- acl
- and so on...



-Configuration for IIOP and HTTP

PROTOCOLS

IIOP/CORBA

- local
- remote

HTTP

WebSphere Application Server

-SSO configuration

WebSphere Portal

Java Environment

- Portlet API
- Java Domino API
- and so on...

Portlet

HelloWorldFromDomino

HelloWorldFromDominoServer!
You have just created dbcp session to dbm

ServerNotes/Version/Release 5.0.10 (Data)
ServerPlatform: Windows32
ServerName: CN=ibotest-domino@ibm.com
ServerURL: http://ibotest-dom.com:ibm



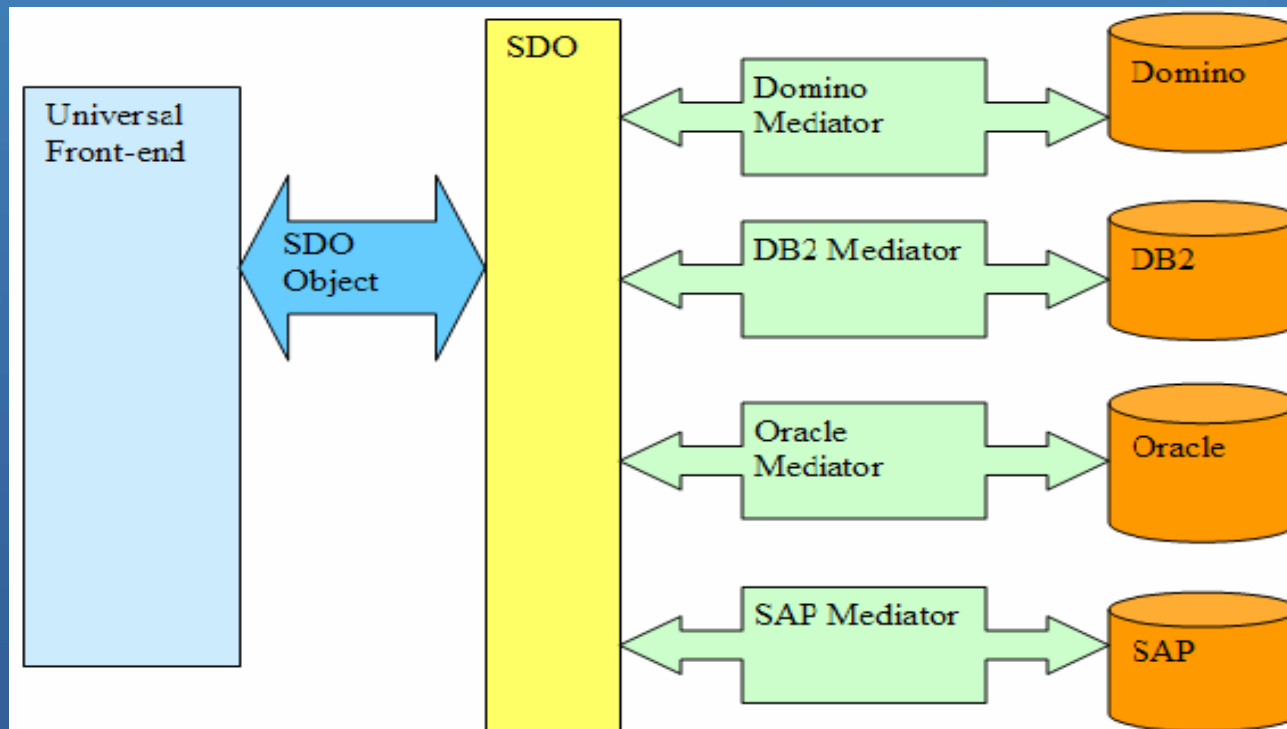
Thank You!

Backup



Custom Development – JSF-Domino SDO

SDO – Service Data Objects

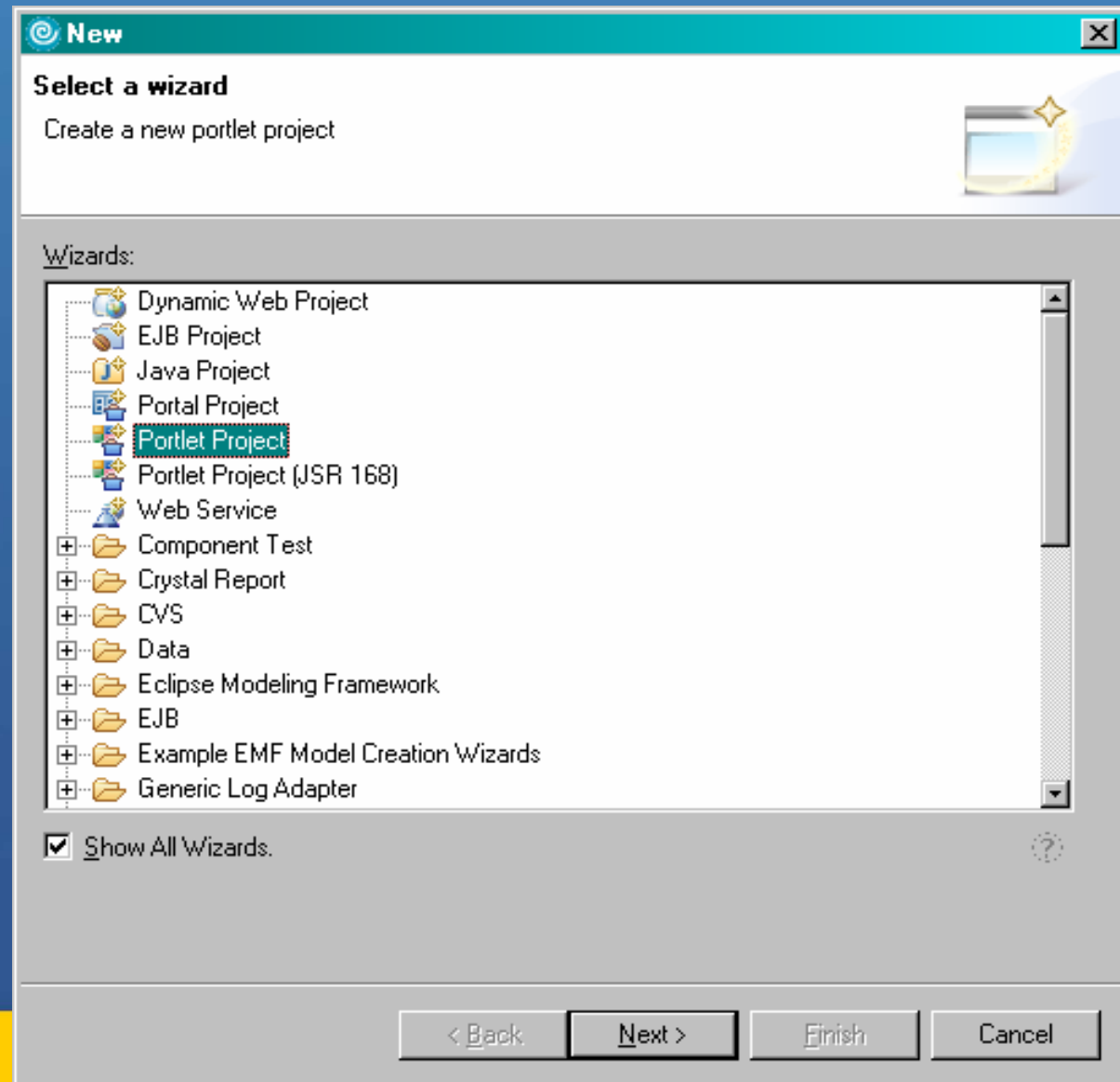


JSF – Java Server Faces



Custom Development – JSF-SDO

- **Select Portlet Project**



Custom Development – JSF-SDO

- Enter the Portlet Project name

New Portlet Project

Portlet Project
Specify a name and location for the new portlet project.

Name:

Project location:

WebSphere Portal version:

Create a portlet

Servlet version:

Target server:

Add module to an EAR project.

EAR project:

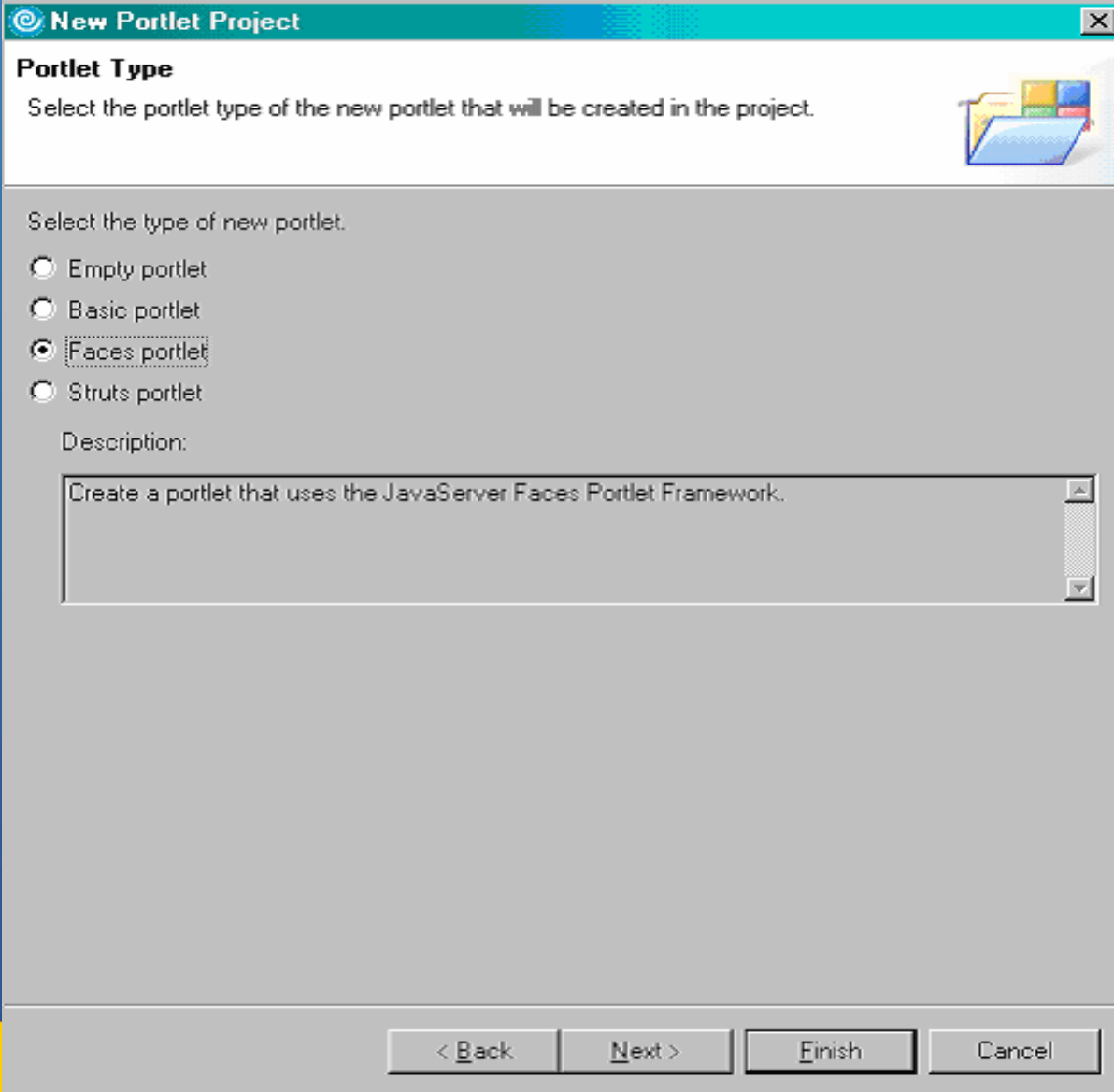
Context Root:

Add support for annotated Java classes

Custom Development – JSF-SDO

- SDO only supports Faces Portlet

- Faces = JSF = Java Server Faces



New Portlet Project

Portlet Type
Select the portlet type of the new portlet that will be created in the project.

Select the type of new portlet.

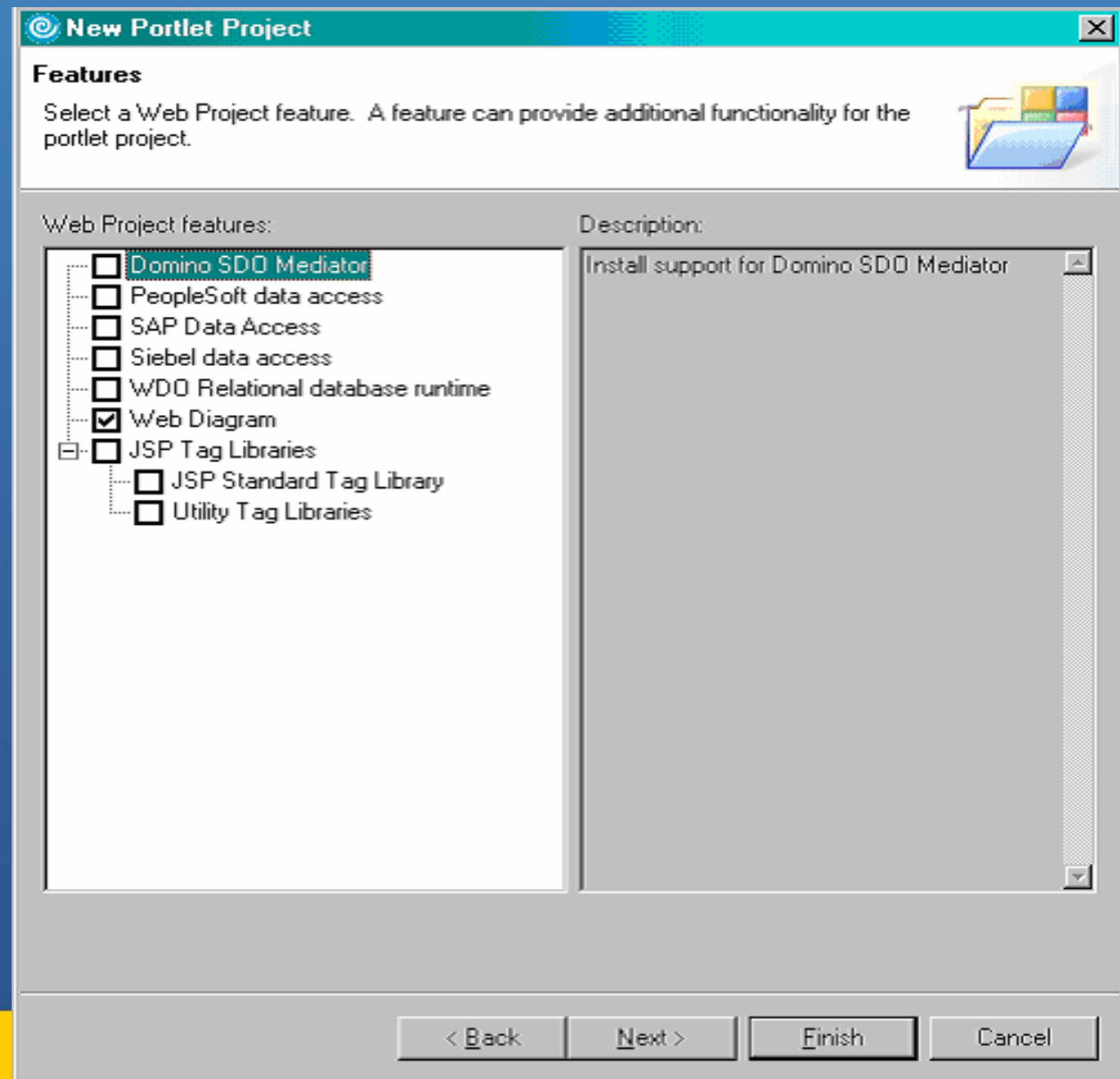
Empty portlet
 Basic portlet
 Faces portlet
 Struts portlet

Description:
Create a portlet that uses the JavaServer Faces Portlet Framework.

< Back Next > Finish Cancel

Custom Development – JSF-SDO

- Domino SDO Mediator
- Click Finish



Custom Development – JSF-SDO

The screenshot displays an IDE interface with three main panels:

- Project Explorer:** Shows a project structure under 'Dynamic Web Projects' > 'InboxView'. The 'WEB-INF' folder is expanded, and 'InboxViewView.jsp' is selected.
- Code Editor:** Displays the content of 'InboxViewView.jsp'. The code includes page directives for language, contentType, pageEncoding, and session, followed by a portlet initialization tag and a simple view structure.
- Palette:** Lists various UI components and tags such as HTML Tags, JSP Tags, Faces Components, Data Table, Panel - Group Box, Panels - Tabbed, Panel - Menu Bar, Command - Button, Command - Hyperlink, Link, Input, Input - Text Area, Rich Text Area, Input - Password, Page Template, and Portlet.

```
<!-- jsf:pagecode language="java" location="/JavaSource/pagecode -->
<%@ taglib uri="http://java.sun.com/jsf/core" prefix="f"%>
<%@ taglib uri="/WEB-INF/tld/portlet.tld" prefix="portletAPI"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" session="false"%>
<portletAPI:init />
<f:view>
    <P>Place content here.</P>
</f:view>
```

Custom Development – JSF-SDO

- Drag Domino View

InboxViewView.jsp

```
<!-- jsf:pagecode language="java" location="/JavaSource/pagecode/InboxViewView.jsp" -->
<%@ taglib uri="http://java.sun.com/jsf/core" prefix="f"%>
<%@ taglib uri="/WEB-INF/tld/portlet.tld" prefix="portletAPI"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" session="false"%>
<portletAPI:init />
<f:view>
    <P>Place content here.</P>
</f:view>
```

Click the Domino View and drag it here.

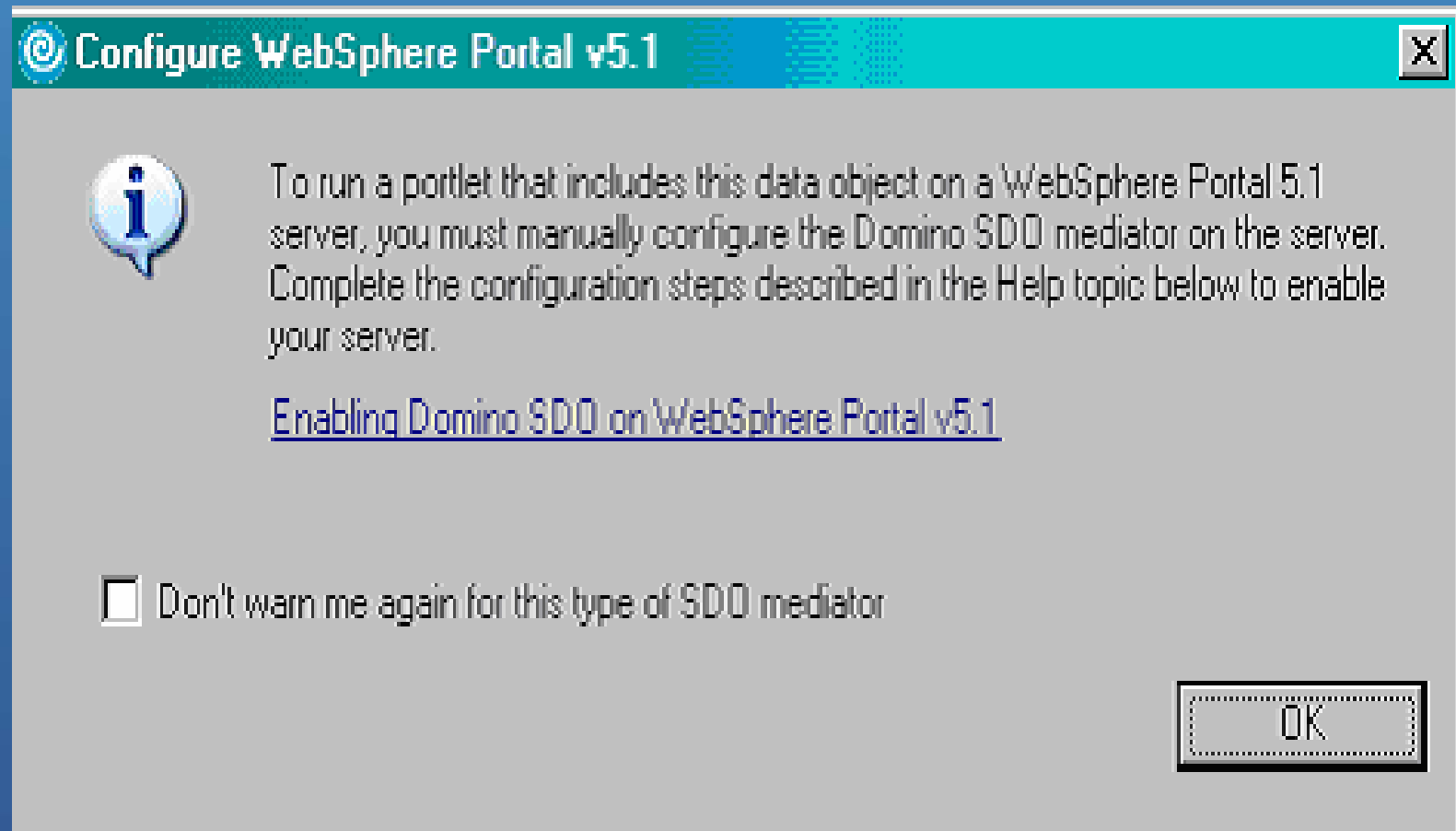
Design Source Preview

HTML Tags
JSP Tags
Crystal Reports ...
Faces Comp...
Data Table
Panel - Group Box
Panels - Tabbed
Panel - Menu Bar
Command - Button
Command - Hyperlink
Link
Input
Page Template
Portlet
Data
Siebel Record List
Siebel Record List
Web Service
EJB Session bean
Relational Record
Relational Record List
Domino View
Domino Note



Custom Development – JSF-SDO

- Make sure you have Domino SDO enable on Portal server



Custom Development – JSF-SDO

- SDO Object name

Domino View
Configure a view

Name:
Create a name to refer to this view within the page.

Reuse existing metadata definition

Input file:

You can automatically add data controls to your page to work with this view (configure details on last page of this wizard).

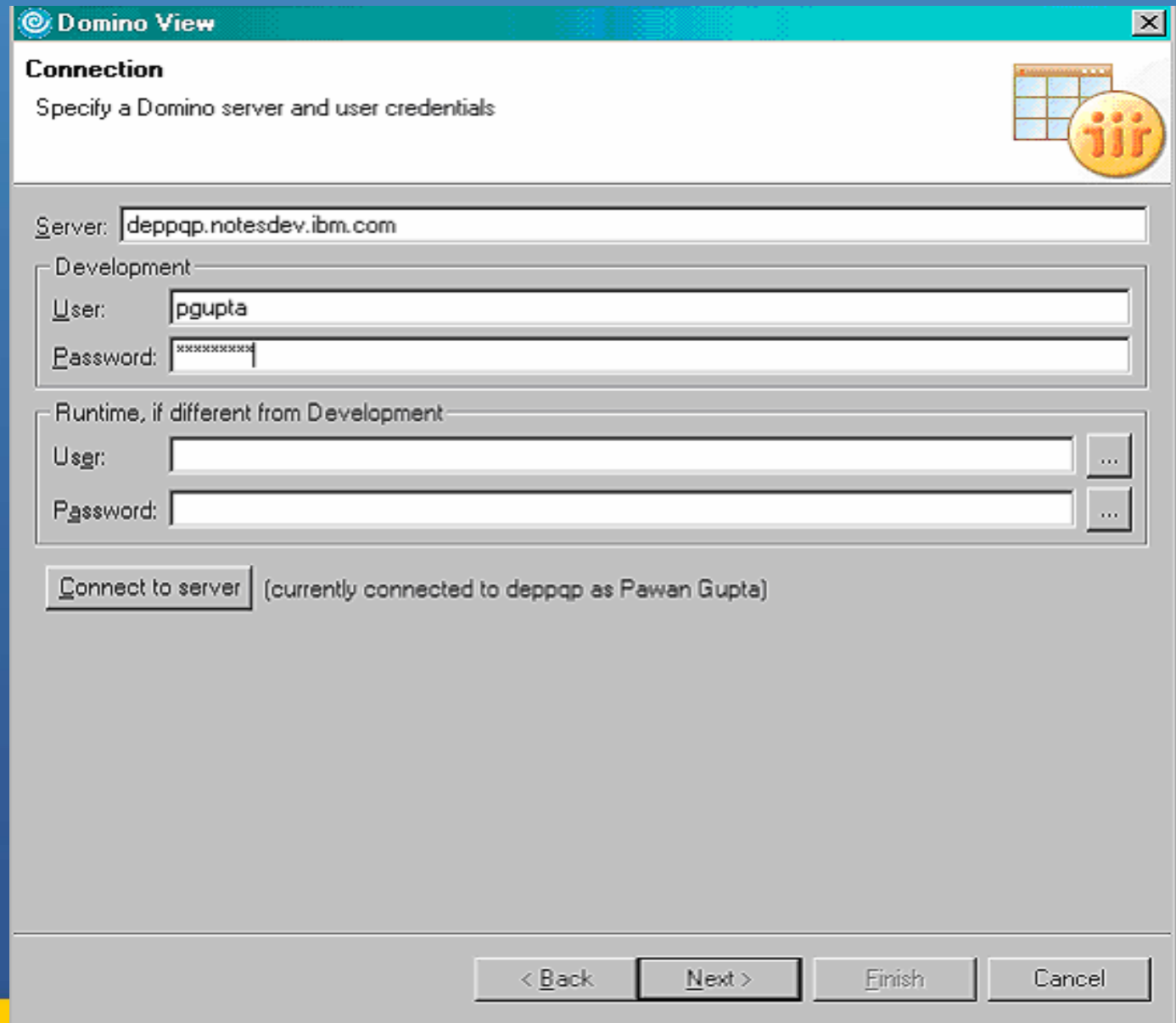
Add input/output controls to display the view on the page

< Back Next > Finish Cancel



Custom Development – JSF-SDO

- Domino Server Name
- Admin User
- Verify Server Connect

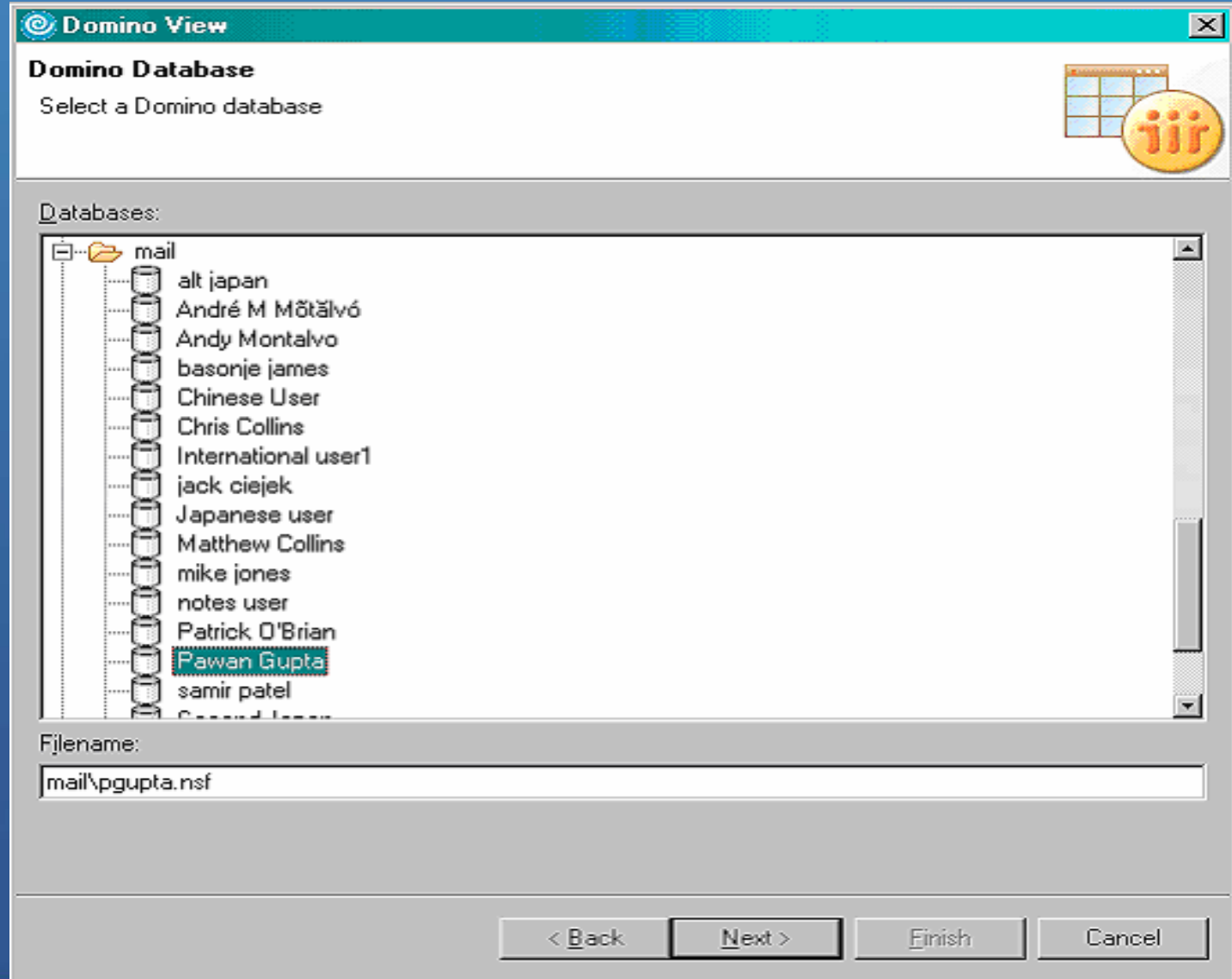


The screenshot shows the 'Domino View' dialog box with the following fields and controls:

- Server:** deppqp.notesdev.ibm.com
- Development:**
 - User:** pgupta
 - Password:** [masked]
- Runtime, if different from Development:**
 - User:** [empty] ...
 - Password:** [empty] ...
- Connect to server:** (currently connected to deppqp as Pawan Gupta)
- Navigation buttons:** < Back, Next >, Finish, Cancel

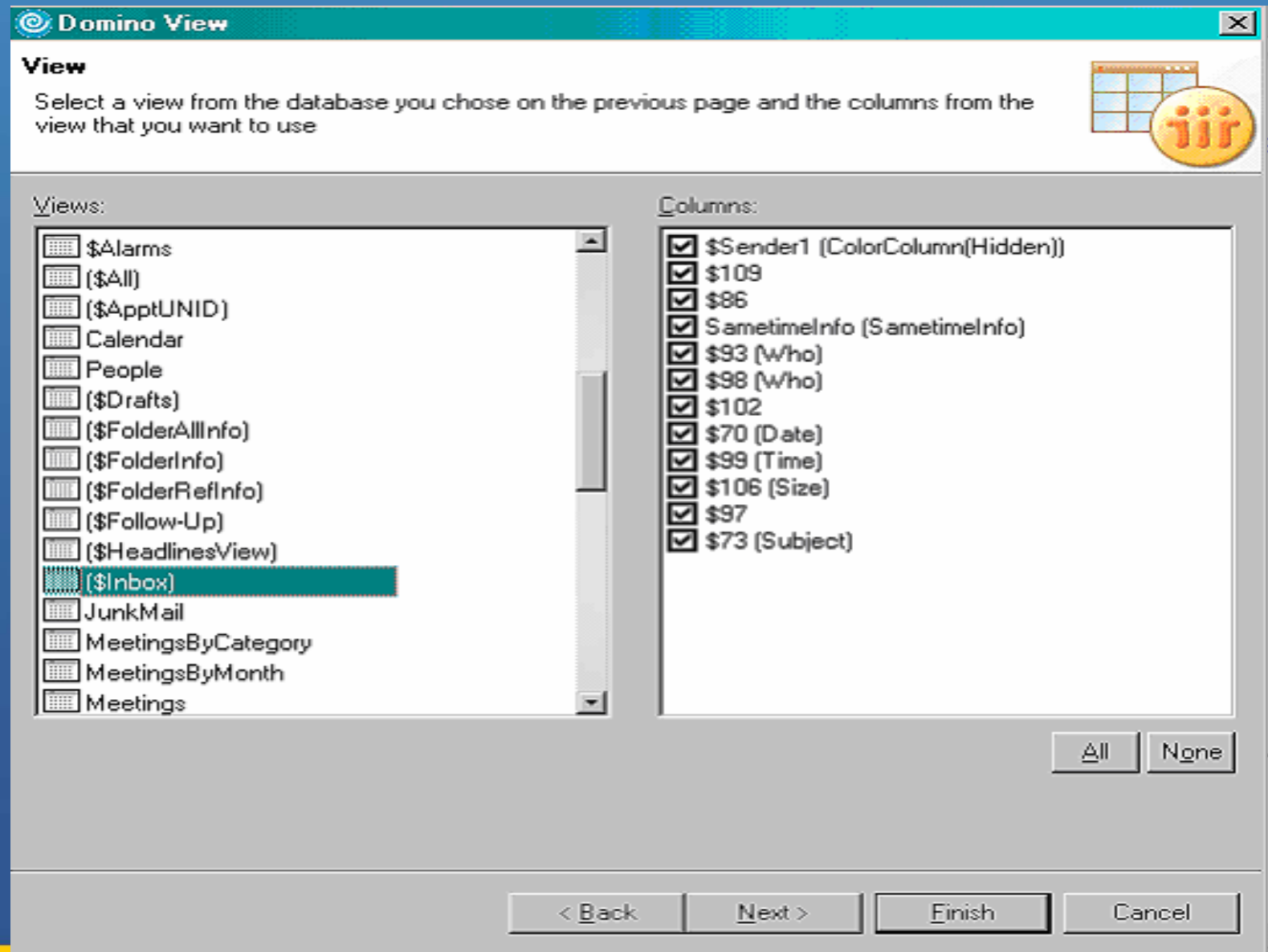
Custom Development – JSF-SDO

- **Select Domino DB**



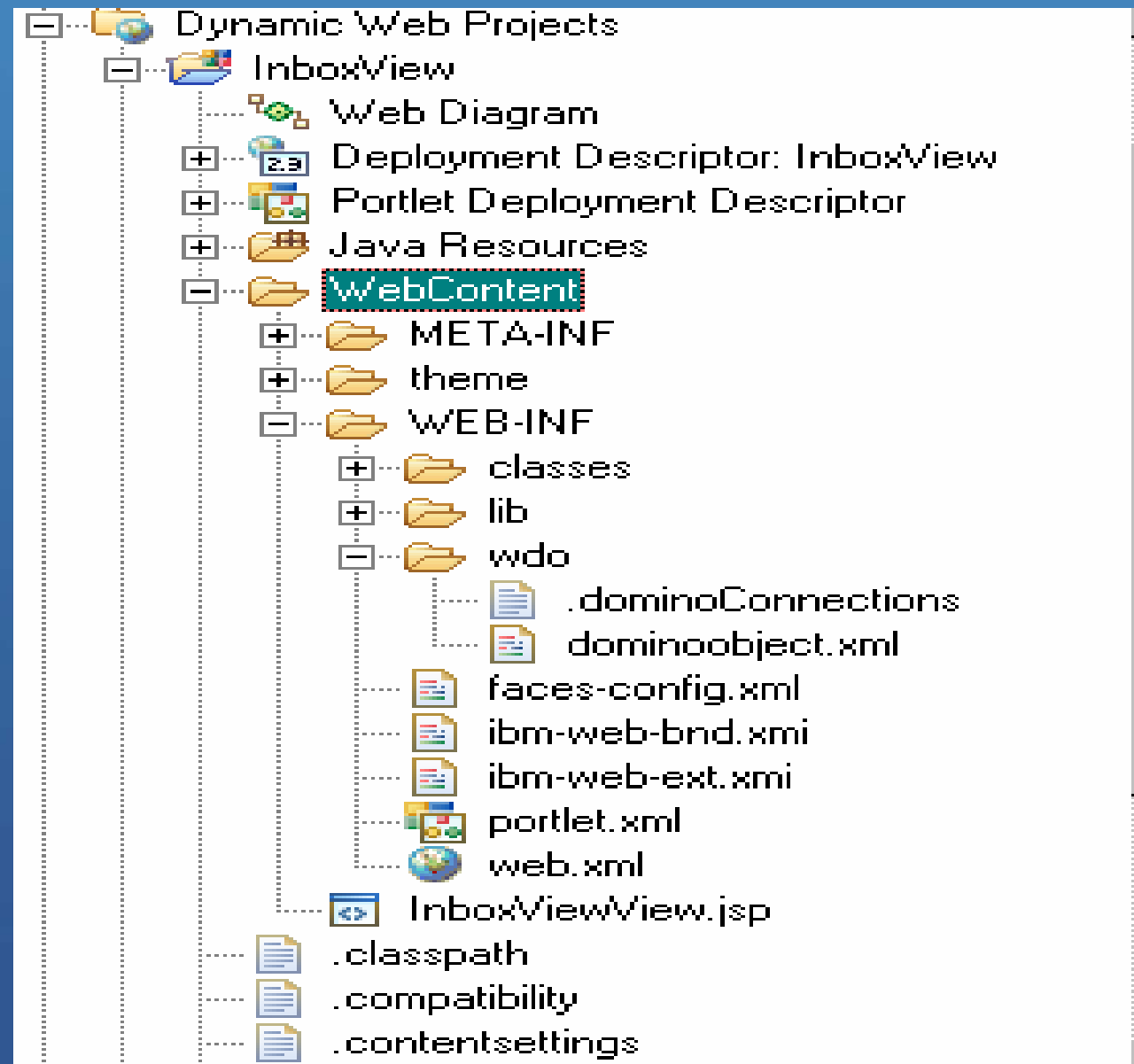
Custom Development – JSF-SDO

- Select View
- Select Columns



Custom Development – JSF-SDO

- **dominoConnections**
- **dominoobject.xml**



Custom Development – JSF-SDO

The screenshot displays a web browser window titled "InboxViewView.jsp" in design mode. The main content area shows a table with the following structure:

_109 abc	Who abc	Date abc	Time abc	Subject abc
{_109} abc	{_82} abc	{_62} abc	{_99} abc	{_65} abc

On the right side, a component palette is visible, listing various UI elements such as HTML Tags, JSP Tags, Crystal Reports, Faces Components, Data Table, Panel - Group, Panels - Tabbed, Panel - Menu, Command - Button, Command - Hyperlink, Link, Input, Input - Text Area, Rich Text Area, Input - Password, Page Template, Portlet, Data, Business Process Message, and PeopleSoft Record.

At the bottom of the browser window, there are three tabs: "Design" (selected), "Source", and "Preview".

Custom Development – JSF-SDO

InboxViewView.jsp

```
<@taglib uri="http://www.ibm.com/jsf/html_extended" prefix="hx" %>
<@page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" session="false" %>
<portletAPI:init />
<LINK rel="stylesheet" type="text/css"
    href='<%= response.encodeURL("/theme/stylesheet.css") %>' title="Style">
<f:view>
    <!-- jsf:pagecode language="java" location="/JavaSource/pagecode/InboxViewView.java" -->
<hx:scriptCollector id="scriptCollector1">
<h:dataTable id="table1" value="#{pc_InboxViewView.dominioobject}"
    var="vardominioobject" styleClass="dataTable" headerClass="headerClass"
    footerClass="footerClass" rowClasses="rowClass1" columnClasses="columnClass1"
    border="0" cellpadding="2" cellspacing="0">

<h:column id="column1" >
    <f:facet name="header">
        <h:outputText styleClass="outputText" value="_109" id="text1"></h:outputText>
    </f:facet>
    <h:outputText id="text2" value="#{vardominioobject._109}" styleClass="outputText" >
    </h:outputText>
</h:column>

<h:column id="column3" >
    <f:facet name="header">
        <h:outputText styleClass="outputText" value="Who" id="text5"></h:outputText>
    </f:facet>
    <h:outputText id="text6" value="#{vardominioobject._82}" styleClass="outputText" >
    </h:outputText></h:column>
```

SDO
Object

property

Custom Development – JSF-SDO

InboxViewView.jsp dominoobject.xml Web Browser .dominoConnections X

```
<?xml version="1.0" encoding="UTF-8"?>
<connection id="connection1">
  <development server="deppqp.notesdev.ibm.com" user="pgupta" password="{code}c2hpbW1lc nF1" />
  <runtime server="deppqp.notesdev.ibm.com" user="pgupta" password="{code}c2hpbW1lc nF1" />
</connection>
```



Custom Development – JSF-SDO

```

InboxView.jsp | dominoobject.xml X | .dominoConnections | Web Browser
<?xml version="1.0" encoding="ASCII"?>
com.ibm.websphere.sdo.mediator.domino.metadata:DominoMetadata xmlns:com.ibm.websphere.sdo.mediator.domino.metadata="http
Element : DominoMetadata | ent) " emfName=" _Sent _ " databaseName="mail/pgupta.nsf">
Content Model : (dominoView?) | $109" emfName=" _109" type="1280" notesItemReadOnly="true" notesFieldName="$109"/>
<dominoItems name="$71" emfName=" _71" type="1280" notesItemReadOnly="true" notesFieldName="$71"/>
<dominoItems name="$82" emfName=" _82" type="1280" notesItemReadOnly="true" notesFieldName="$82"/>
<dominoItems name="SametimeInfo" emfName="SametimeInfo" type="1280" notesItemReadOnly="true" notesFieldName="Sametime
<dominoItems name="AltWho" emfName="AltWho" type="1280" notesItemReadOnly="true" notesFieldName="AltWho"/>
<dominoItems name="$62" emfName=" _62" type="1280" notesItemReadOnly="true" notesFieldName="$62"/>
<dominoItems name="$99" emfName=" _99" type="1280" notesItemReadOnly="true" notesFieldName="$99"/>
<dominoItems name="$106" emfName=" _106" type="1280" notesItemReadOnly="true" notesFieldName="$106"/>
<dominoItems name="$75" emfName=" _75" type="1280" notesItemReadOnly="true" notesFieldName="$75"/>
<dominoItems name="$65" emfName=" _65" type="1280" notesItemReadOnly="true" notesFieldName="$65"/>
</dominoView>
com.ibm.websphere.sdo.mediator.domino.metadata:DominoMetadata>

```



Custom Development – JSF-SDO

The screenshot shows an IDE interface with a context menu open over a file named 'Inb'. The menu items are:

- New
- Copy
- Paste
- Delete
- Refactor (Alt+Shift+T)
- Import...
- Export...
- Refresh
- Close Project
- Run Validation
- Deploy Portlet...
- Convert to Web site
- Run** (highlighted)
- Debug
- Profile
- Deploy
- Test...

The 'Run' sub-menu is open, showing the following options:

- 1 Run on Server...
- 2 Component Test
- Run...

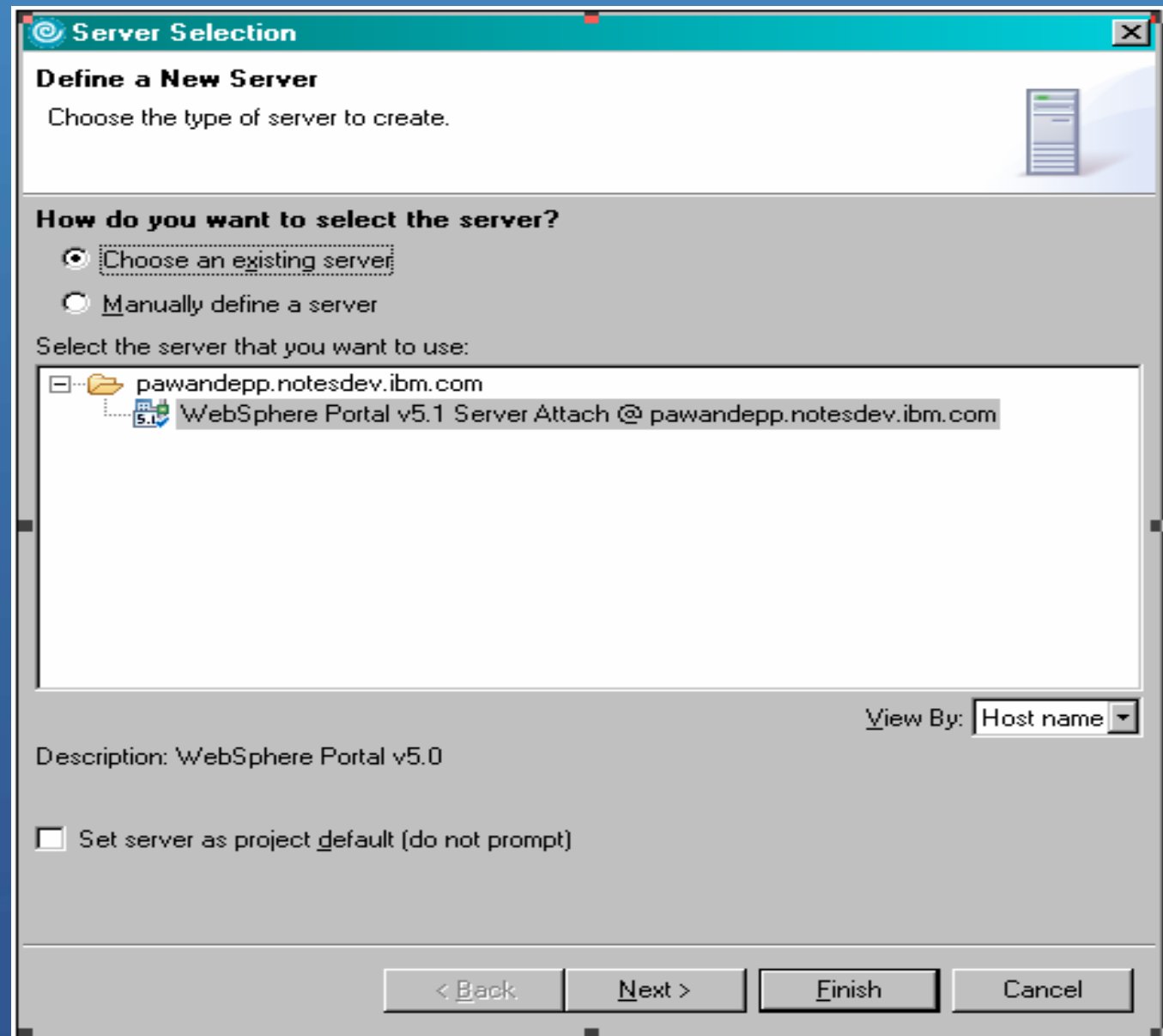
The background code editor displays the following code snippet:

```

getEncoding- 150-0039-1
etAPI:init />
rel="stylesheet" type="t
ef='<%= response.encodeU
w>
-- jsf:pagecode language
<hx:scriptCollector id
<h:dataTable id="t
    var="vardomino)
    headerClass="h
    rowClasses="ro
    cellpadding="2
    <h:column id="
        <f:facet n
            <h:out
        </f:facet>
    <h:outputT
styleC
output
nn>
n id="
acet n
  
```

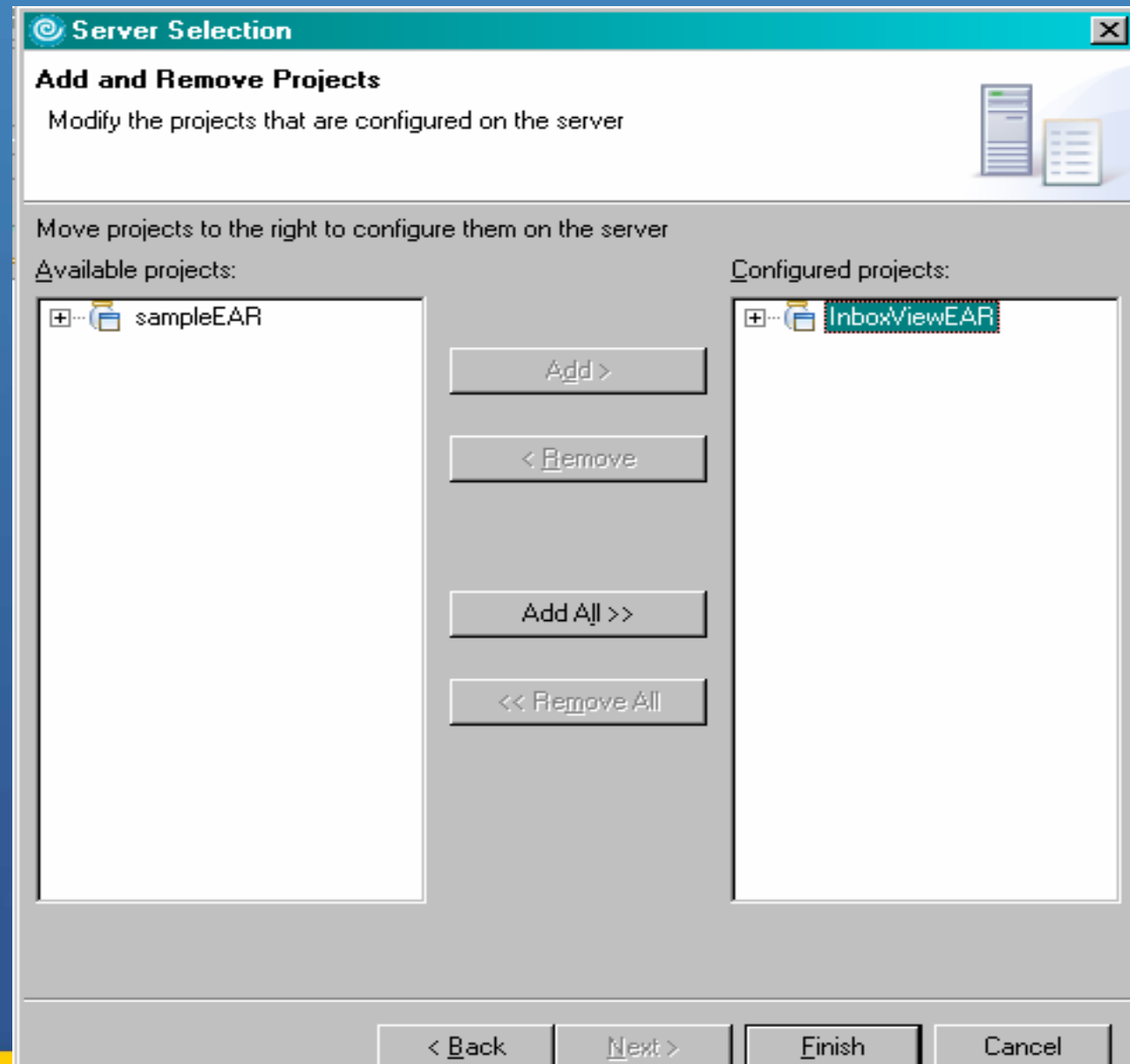
Custom Development – JSF-SDO

- Click Next

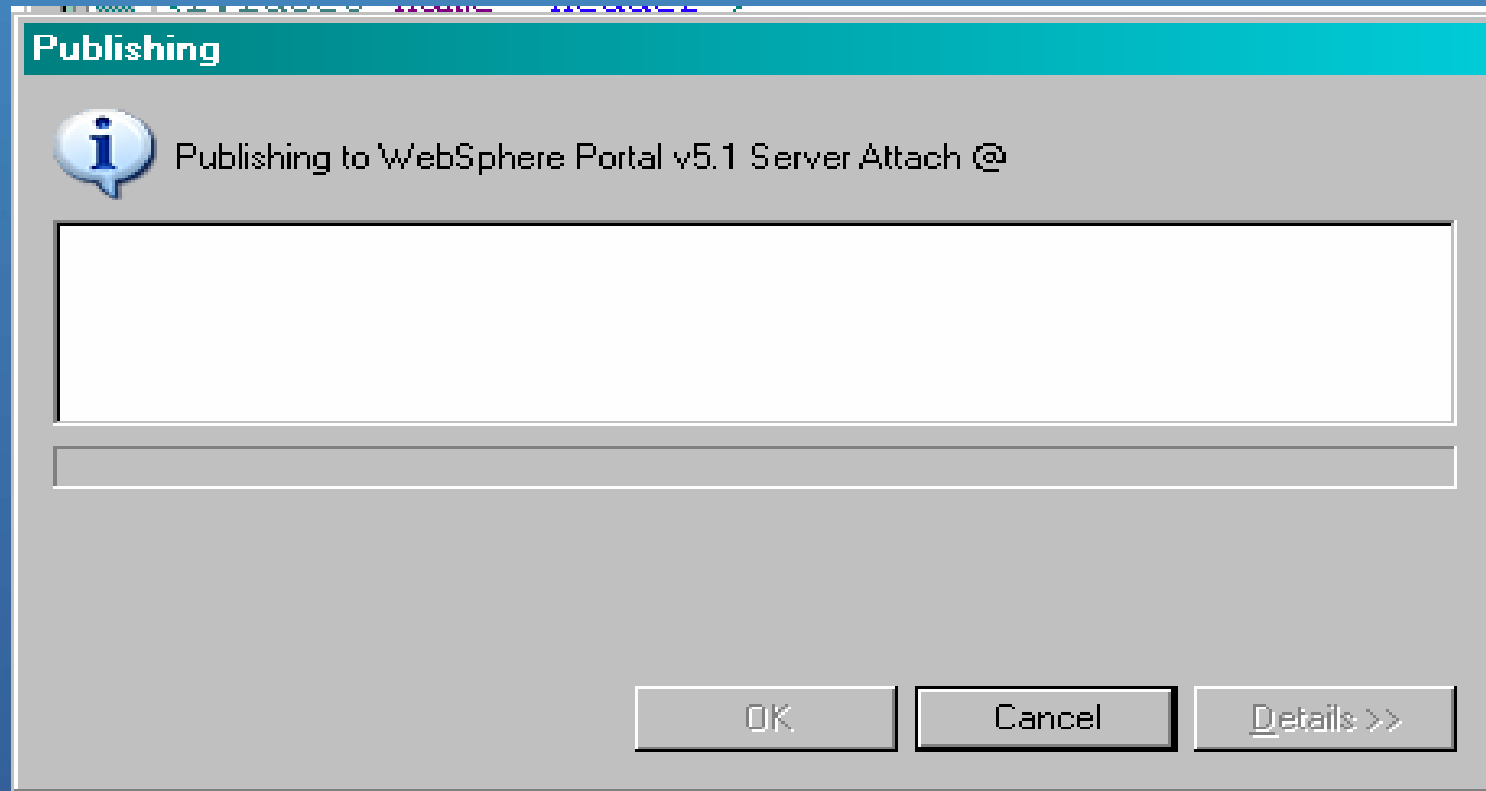


Custom Development – JSF-SDO

• Click Finish



Custom Development – JSF-SDO



Custom Development – JSF-SDO

InboxView portlet

_109	Who	Date	Time	Subject
	Collins	13/04/2005	08:18	Re: Test mail from ccollins
	samir patel	18/10/2005	02:08	Re: Reply without att - 10.18.12.54.27
	samir patel	18/10/2005	04:33	Re: Reply with attachment - 10.18.15.20.54
	samir patel	18/10/2005	04:44	Re: Message for Reply To All With History - 10.18.15.32.18
	mike jones	28/12/2005	10:41	Did you review the code.
	Carolyn Frank	28/12/2005	10:42	Thank you for reviewing the Spec
	Second Japan	28/12/2005	10:45	I have review the Testcases. Please see the comments
	basonje james	28/12/2005	10:46	Re : I got Rational Software install sucessfully
	Pawan Gupta	28/12/2005	10:47	Did you see the Football Game
	samir patel	28/12/2005	10:49	You want to go to bowling tonight ?
	mike jones	28/12/2005	10:51	Re : I have finish my Lotusphere presentation
	samir patel	28/12/2005	10:53	I am done with SDO
	Pawan Gupta	28/12/2005	11:05	Preparing Demo for LSM in Boston
	samir patel	28/12/2005	11:06	Ok, I am done with this Bug

