



IBM Software Group | Lotus Expeditor 6.1.1 Education

IBM® Lotus® Expeditor Client for Desktop

Embedded browser

Lotus software



@ business on demand software

© 2007 IBM Corporation

This presentation explains the Embedded Browser support provided by IBM Lotus Expeditor Client for Desktop.

Goals

- Understand the embedded browser support provided by IBM Lotus Expeditor Client for Desktop

The goal of this presentation is to understand the Embedded Browser support provided by IBM Lotus Expeditor Client for Desktop.

Agenda

- Overview
- Creating an embedded browser
- Enhancing an embedded browser
- Integrated browser application
 - ▶ Install
 - ▶ Use
 - ▶ Configure
- Summary

The agenda of this presentation is to explain how to create, enhance and configure an embedded Web browser in the Expeditor Desktop Client. It will also discuss the integrated browser application and how to install, use and configure it.

Section

Embedded browser

This section will review the details of the embedded browser

Embedded Web browser

Embedded
Browser

- Lotus Expeditor Desktop Client supports running a Web browser embedded in a client window
 - ▶ The embedded browser is configurable and manageable
- The `com.ibm.rcp.ui.browser` plug-in provides APIs that you can use to implement a Web browser view
- The embedded browser plug-in supports these:
 - ▶ Provides default user interface controls, such as a toolbar, status bar, and history bar
 - ▶ Is based on the DOM Browser developed by IBM. The DOM Browser is based on the Eclipse Standard Widget Toolkit (SWT) Browser, and leverages APIs that are native to the supported browsers.
 - ▶ Supports Internet Explorer® on Windows® and Mozilla on Linux®
 - ▶ Supports the display of pages in HTML/DHTML(CSS/Script), and XML format. Supports the display of plug-ins, applets, activeX, flash, and PDF content
 - ▶ Provides APIs that you can use to customize it and configure its security
 - ▶ Integrated with the XPD system proxy settings

Lotus Expeditor Desktop Client supports running a Web browser that is embedded in the client window.

The embedded browser is a configurable and manageable browser that you can embed in a client application. The `com.ibm.rcp.ui.browser` plug-in provides APIs that you can use to implement a Web browser view.

The embedded browser provides all of the functionality described in this slide.

Creating an embedded browser

Embedded
Browser

- You can use the APIs provided with the client to create an embedded browser
- To create an embedded browser, use one of these APIs:
 - ▶ `BrowserFactory.launch` API – Returns a full instance of an `EmbeddedBrowser` object that the application can continue to interact with by registering to be notified of browser events and reacting to them.
 - ▶ `IWorkbenchPage.showView` API – Opens a URL in a browser view. Use this method if you do not want to subsequently perform advanced interactions with the browser.
- For further details refer to the Developer's Guide
 - ▶ "Creating an embedded browser"

You can use the APIs provided with the client to create an embedded browser.

To create an embedded browser, use one of these APIs:

- `BrowserFactory.launch` API – Returns a full instance of an `EmbeddedBrowser` object that the application can continue to interact with by registering to be notified of browser events and reacting to them. For example, you could implement the `addTitleListener` to listen for events that make it suitable for the application to change the browser title and code the application to do so.
- `IWorkbenchPage.showView` API – Opens a URL in a browser view. Use this method if you do not want to subsequently perform advanced interactions with the browser.

Enhancing an embedded browser

Embedded
Browser

- Use the EmbeddedBrowser interface to add listeners and implement navigation
- Add listeners to handle any of these events:
 - ▶ Close window event
 - ▶ Completed document event
 - ▶ URL change event
 - ▶ Open window event
 - ▶ Title change event
- Implement navigation using one of these methods:
 - ▶ Get the current URL
 - ▶ Set the URL
 - ▶ Stop the retrieval of a URL
- For further details refer to the Developer's Guide
 - ▶ "Enhancing an embedded browser"

Use the EmbeddedBrowser interface to enhance the view by adding listeners to handle events and implementing navigation.

To enhance an embedded browser view, you can perform these steps:

Add listeners to handle any of these events:

- Close window event:
- Completed document event
- URL change event
- Open window event
- Title change event

Implement navigation using one of these methods:

- Get the current URL
- Set the URL
- Stop the retrieval of a URL

For more information, refer to the Developer's Guide topic, "Enhancing an embedded browser"

Setting browser preferences

Embedded
Browser

- You can define default preference settings for the embedded browser in several ways:
 - ▶ Programmatically using the fields defined in the BrowserPreferences class.
 - ▶ By defining Eclipse preferences
 - Modify the plugin_customization.ini file in the com.ibm.rcp.platform.personality.branding plug-in
 - These settings will be in effect for any users that provision the com.ibm.rcp.platform.personality.branding plug-in to their client machines
 - ▶ XPD system proxy setting can override the embedded browser's proxy setting
- For more details, see the Developer's Guide
 - ▶ "Setting browser preferences programmatically" and "Setting browser preferences as Eclipse preferences"

You can define default preference settings for the embedded browser in several ways:
Programmatically using the fields defined in the BrowserPreferences class.

By defining Eclipse preferences: Modify the plugin_customization.ini file in the com.ibm.rcp.platform.personality.branding plug-in to provide values for the keys you want to set.

Details can be found in the Developer's Guide topics "Setting browser preferences programmatically" and "Setting browser preferences as Eclipse preferences"

Section

Integrated browser application

This section covers the integrated browser application

Integrated browser application - Install

Embedded
Browser

- The integrated browser application provides a general embedded browser application that can be launched as an application within the workbench
- Not installed by default
- Can be installed from the platform update site

The integrated browser application can be installed in the Lotus Expeditor Client. The Integrated Browser application provides a general embedded browser application that can be launched as an application within the workbench. A preference page is also added as part of the installation. You can set your home page in the preference page.

Integrated browser application

Embedded
Browser

The screenshot displays the IBM Lotus Expeditor web application interface within an embedded browser window. The browser's title bar reads "IBM Lotus Expeditor - a universal managed client for SOA - Lotus Expeditor". The address bar shows the URL "http://www-142.ibm.com/software/sw-Lotus/products/product1.nsf/wdocs/expeditor". The page content includes the IBM logo, a navigation menu with "Home", "Business solutions", "IT services", "Products", "Support & downloads", and "My IBM", and a search bar. The main content area features a "Lotus Expeditor" section with the tagline "Accelerate your business with a universal managed client for SOA". It includes a diagram with boxes for "ROLE BASED", "IN CONTEXT", and "PROCESS DRIVEN", and labels for "RICH CLIENTS" (with a laptop icon) and "MOBILE CLIENTS" (with a mobile phone icon). Below this is a "COMPOSITE APPLICATION" section with the heading "Why IBM for managed client applications?" and a paragraph of text. To the right, there is a "Lotus software" section with a "We're here to help" sub-section containing contact information: "Easy ways to get the answers you need.", "Call me", "E-mail us", and "or call us at: 800-465-6887, Priority codes: 104CBW74". A "Demos" section at the bottom right lists "Lotus Expeditor Car Rental Customer Service - WebSphere Portal integration" and "Lotus Expeditor". The browser window also shows a "File Edit View Actions Help" menu and a "Print" button.

A screen capture of the integrated browser application is shown here.

Integrated browser application – Using

A red 3D-style rectangular button with the text "Embedded Browser" in white.

- Use the Integrated Browser application to navigate Web pages within the Workbench
- To start the Integrated Browser application:
 - ▶ Select **Open > Web Browser**
 - ▶ This opens an embedded browser view as an application within the workbench.



Use the Integrated Browser application to navigate Web pages within the Workbench.

After installing the Integrated Browser Application in Expeditor, you can start the application by selecting **Open > Web Browser**. This opens an embedded browser view as an application within the workbench.

Integrated browser application-Configure

Embedded
Browser

- To configure settings for the integrated browser application:
 - ▶ Select **File > Preferences** from the main menu.
 - ▶ Select **Web browser** from the view in the left pane and configure your preferences
- Preferences
 - ▶ home page
 - ▶ browser to be launched

You can configure these preferences for the Integrated Browser application: the home page and which browser will be launched when clicking on the application launcher.

To configure these preferences for the Integrated Browser application, first select **File > Preferences** from the main menu. Then select **Web browser** from the view in the left pane and configure your preferences.

Integrated browser application - launchURL

- Implement a hypertext link in your application which, when clicked, opens the Web address in a browser view.
 - ▶ Use the API: `com.ibm.rcp.ui.browser.launcher`
- Launch the given URL with the integrated browser application:
 - ▶ `launcher.launchURLasDefault("http://www.ibm.com");`
 - ▶ `launcher.launchURLasEmbedded("http://www.ibm.com", null, configMap);`
 - ▶ `launcher.launchURLasExternal("http://www.ibm.com");`
- For more details refer to the Developer's Guide:
 - ▶ "Accessing a Web address with the integrated browser application"



Lotus Expeditor has an integrated browser application within the workbench. You can use the `com.ibm.rcp.ui.browser.launcher` code provided in Lotus Expeditor to implement a hypertext link in your application that, when clicked, opens the Web address in a browser view. You can set the browser view to be an embedded browser in the application tabs or an external browser, which is set as default.

Integrated browser application - Customize

- Customize the integrated browser application with Eclipse preferences
 - ▶ Edit the plug-in customization file (plugin_customization.ini).
- The preferences:
 - ▶ showPreferencePage - Toggle the Web Browser preference page
 - ▶ enableBrowserSSO - Toggle support for pre-authentication
 - ▶ allowUserDefinedHomePage - Toggle home page setting UI. This depends on the setting of showPreferencePage.
 - ▶ adminHomePageString valueabout:blank - Configures the administrative default home page
- For example, to set the administrative home page with the company's Web site, modify the plug-in customization file by adding these lines:
 - ▶ #Set home page for browser application
com.ibm.rcp.ui.browser.launcher/adminHomePage=http://www.ibm.com

Application developers can customize the behavior of the integrated browser application by editing the plug-in customization file (plugin_customization.ini). The default settings control the behavior of the user's client after provisioning. The preferences that can be set are: Toggling the Web browser preference page, toggling support for pre-authentication, toggling home page setting UI, and setting the default home page.

Embedded browser - Summary

Embedded
Browser

- Based on the Eclipse SWT browser widget
- Browsers supported
 - ▶ Windows XP/Vista - MS IE
 - ▶ RHEL 4 Update 4 – Firefox 1.5.0.3
 - ▶ RHEL 5 – Firefox 1.5.0.9
 - ▶ NLD 10 – xulrunner 1.8.0.1
- APIs provided to allow applications to control the browser view, configure controls, supports application customization using configuration file (plugin.xml)
- Supports being embedded in a Java™ application, provides default UI such as tool bar and controls
- API
 - ▶ com.ibm.rcp.ui.browser – implement and configure a Web browser view
- Target feature:
 - ▶ Embedded browser component
- Reference:
 - ▶ Developing Applications for Lotus Expeditor “Implementing an Embedded Web Browser”

The Embedded Browser extends an application's functions, such as browser launch, event handling, and preferences. The Embedded Browser is based on SWT browser widget in Eclipse, which can support Internet Explorer on Windows and Mozilla on Linux.

Microsoft Internet Explorer 6.0 is supported

The embedded browser also includes support to display Web page such as HTML/DHTML(CSS/Script), XML, and plug-ins such as Applet/ActiveX/Flash/PDF on Windows and Linux.

Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send e-mail feedback:

[mailto:iea@us.ibm.com?subject=Feedback about xpdv6.1.1 interaction embedded browser.ppt](mailto:iea@us.ibm.com?subject=Feedback%20about%20xpdv6.1.1%20interaction%20embedded%20browser.ppt)

You can help improve the quality of IBM Education Assistant content by providing feedback.

Trademarks, copyrights, and disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM Lotus

Internet Explorer, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Java, and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

© Copyright International Business Machines Corporation 2007. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.



Embedded browser

© 2007 IBM Corporation