IBM® Lotus® Expeditor 6.1 Client for Desktop

Embedded browser

Lotus software

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This presentation explains the Embedded Browser support provided by IBM Lotus Expeditor 6.1 Client for Desktop.

Goals

- Understand the Embedded Browser support provided by IBM Lotus Expeditor 6.1 Client for Desktop

The goal of this presentation is to understand the Embedded Browser support provided by IBM Lotus Expeditor 6.1 Client for Desktop.

Agenda

- Overview

- Creating an embedded browser

- Enhancing an embedded browser

- Integrated Browser Application
  - ▶ Install
  - ▶ Use
  - ▶ Configure

- Summary

Embedded browser

The agenda of this presentation is to explain how to create, enhance and configure an embedded web browser in the Expeditor Desktop Client. Additionally, we will discuss the Integrated Browser applications and how to install, use and configure it.

Section

Embedded browser

Embedded browser

Now, let's 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 the following:
  - ‣ 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 also leverages APIs that are native to the supported browsers.
  - ‣ Supports Internet Explorer on Windows® and Mozilla on Linux®.
  - ‣ Supports displaying pages in HTML/DHTML(CSS/Script), and XML format. Supports displaying plug-ins, applets, activeX, flash, and PDF content.
  - ‣ Provides APIs that you can use to customize it and configure its security

Embedded browser

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.

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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 the following 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"

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

To create an embedded browser, use one of the following 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 the following events:
  - Close window event
  - Completed document event
  - URL change event
  - Open window event
  - Title change event
- Implement navigation using one of the following 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 the following steps:

Add listeners to handle any of the following events:
- Close window event:
- Completed document event
- URL change event
- Open window event
- Title change event

Implement navigation using one of the following methods:
- Get the current URL
- Set the URL
- Stop the retrieval of a URL

For further details refer to the Developer's Guide under "Enhancing an embedded browser"

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Setting browser preferences

Embedded
Browser

- You can define default preference settings for the embedded browser in the following 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

- For 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 the following 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 under "Setting browser preferences programmatically" and "Setting browser preferences as Eclipse preferences"

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Section

Integrated browser application

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Now, let's discuss the Integrated Browser Application
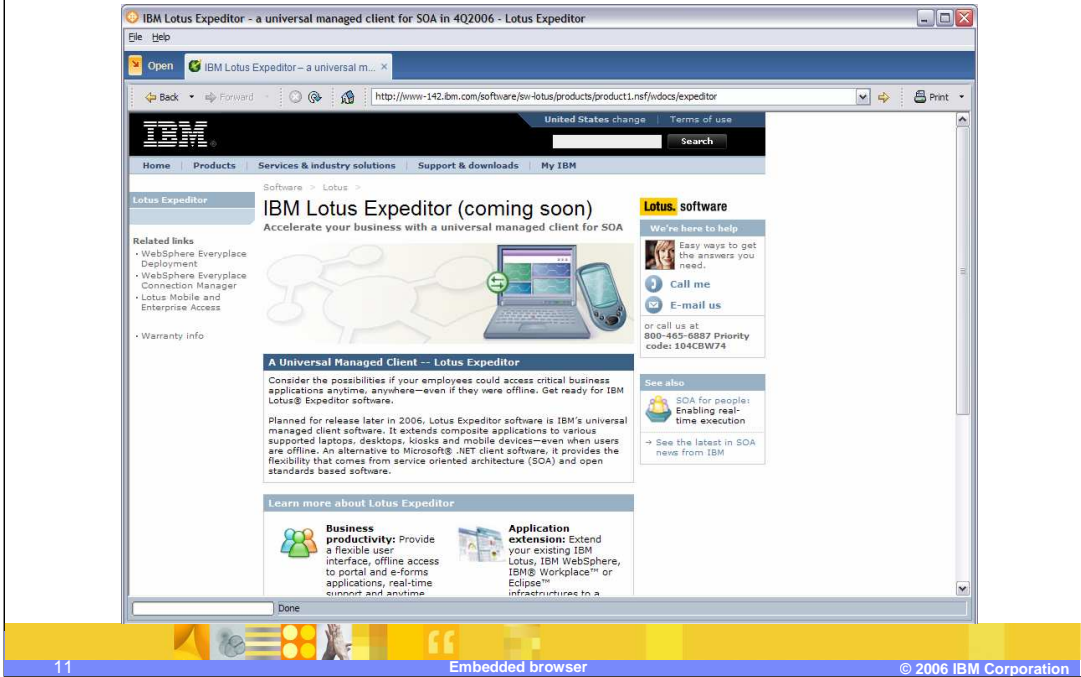
Integrated browser application - Install

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

Embedded browser

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.

A screen shot of the Integrated Browser Application is shown here.

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Integrated browser application – Using

Embedded
Browser

- 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.

Embedded browser

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, do the following:
  - ▸ 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

Embedded browser

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You can configure the following 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, do the following:

First, Select **File > Preferences** from the main menu. Second, select **Web Browser** from the view in the left pane and configure your preferences.

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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"

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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.

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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:blankConfigures the admin default home page

- For example, to set the admin home page with the company's web site, modify the plug-in customization file by adding the following 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 - MS IE
  - RHEL 4 - Mozilla 1.7
  - NLD 9 – Mozilla 1.7
- 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"

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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.

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