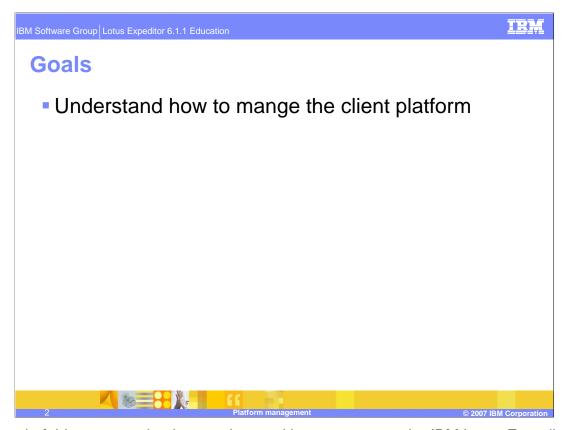
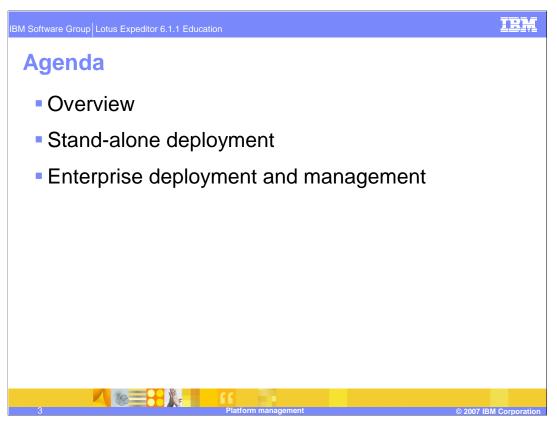


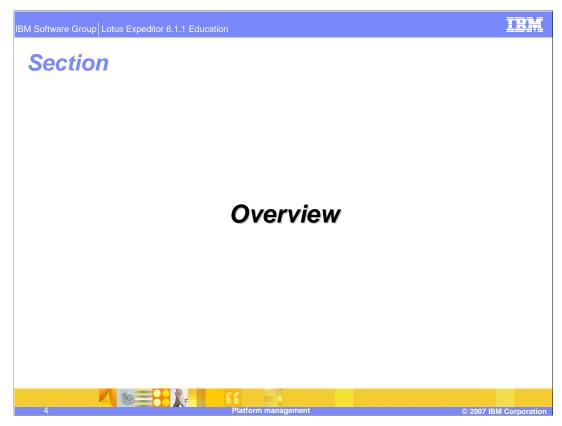
This presentation introduces the platform management capabilities of IBM Lotus Expeditor Client for Desktop.



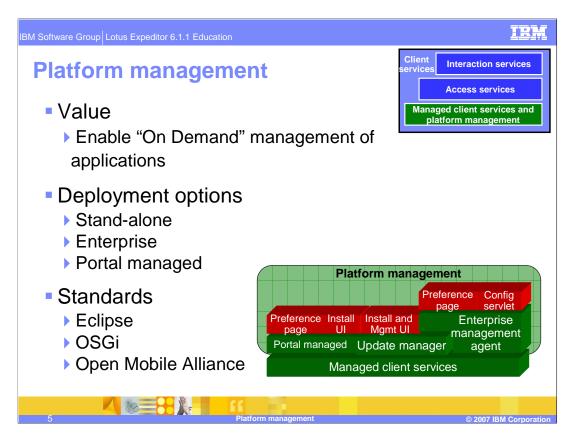
The goal of this presentation is to understand how to manage the IBM Lotus Expeditor 6.1 Client for Desktop platform.



The agenda of this presentation is to provide an overview of platform management, explain the stand-alone deployment of software, and describe the enterprise deployment of software and management for the client platform.



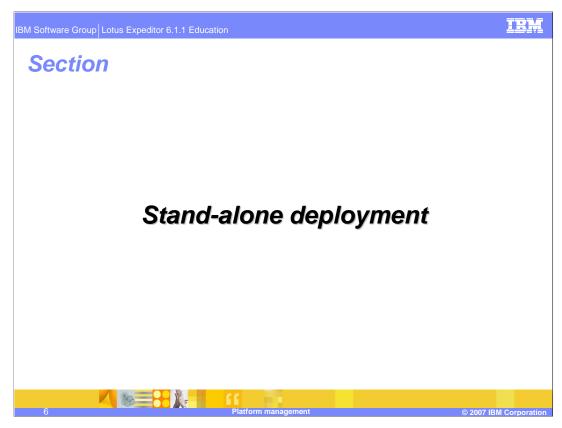
Let's start with an overview of platform management.



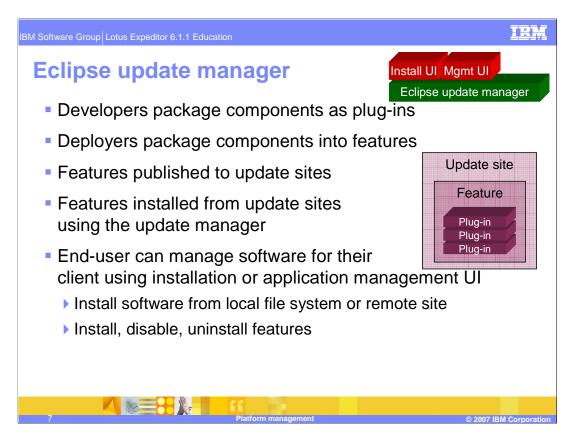
Platform Management installs, maintains, and configures applications and services on the client. There are two platform management services. The Update Manager enables endusers to directly install applications and components from standard Eclipse update sites onto the Workbench.

The Enterprise Management Agent enables an administrator to manage the client platform remotely by using a Device Manager server, which is provided by the server platform.

IBM Lotus Expeditor supports three options to deploy software to the client. Stand-alone deployment allows an end-user to install software onto their device through the Eclipse Update Manager. Enterprise deployment enables a System Administrator to install software onto multiple devices by using the Enterprise Management Agent and a Device Manager server. And Portal Managed client also supports download of applications and configuring preferences.



Next, let's cover stand-alone deployment of software to the client platform.



In IBM Lotus Expeditor 6.1, developers package software components as Eclipse plug-ins. Solution Deployers then package these plug-ins into installable Eclipse Features consisting of one or more plug-ins, and, optionally, other Features. They then publish these Features to an Eclipse Update Site. End-users can use the installation user interface with the Update Manager to install these Features from an Update Site onto their client. Furthermore, end-users can use the management user interface to disable and uninstall Features that are installed on their client.

IBM Software Group Lotus Expeditor 6.1.1 Education Global install handler Eclipse update manager Global install handler Provided by the client platform bused to perform updates to files present on the client system. Install handlers Java™ classes run by the update manager during the installation, configuration, and uninstall processing of a feature. Update manager Handles standard installation of features, plug-ins, and fragments without writing any Java code If additional tasks are required to be performed during install, configuration, and uninstall processing, an install handler can be used to perform these tasks. An example of tasks that might be performed by install handlers include are file updates

The client platform provides an install handler that can be used to perform updates to files present on the client system.

Install handlers are Java™ classes that are run by the Update Manager during the install, configuration, and uninstall processing of a feature.

Update manager can handle standard installation of features, plug-ins, and fragments without writing any Java code. However, if additional tasks are required to be performed during install, configuration, and uninstall processing, an install handler can be used to perform these tasks. An example of tasks that might be performed by install handlers is performing file updates.

IBM Software Group Lotus Expeditor 6.1.1 Education Global install handler Eclipse update manager The client platform provides an install handler that can be used to perform updates to files present on the client system. The install handler provides additional capabilities beyond that offered by the default install handler provided by Eclipse. Capabilities provided by the install handler include the following: Ability to modify repinstall properties settings for single or multi-user for: bootclasspath PATH/LD LIBRARY PATH class path VM system properties VM Other properties Ability to set locations of JVM, RCP base location, RCP launcher location, provisioning manifest location and version Ability to launch a native script or executable file

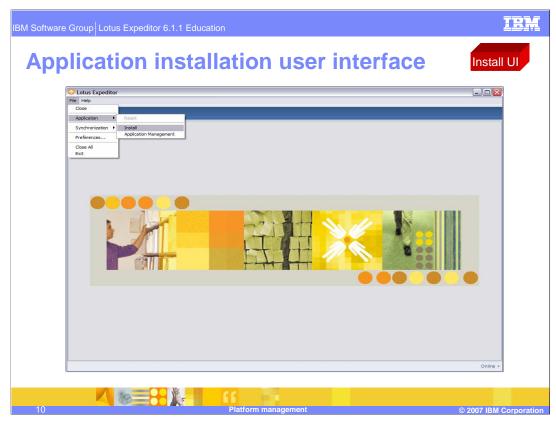
The client platform provides an install handler that can be used to perform updates to files present on the client system. The install handler provides additional capabilities beyond that offered by the default install handler provided by Eclipse. Capabilities provided by the install handler include the following:

Ability to modify repinstall.properties settings for single or multi-user for:

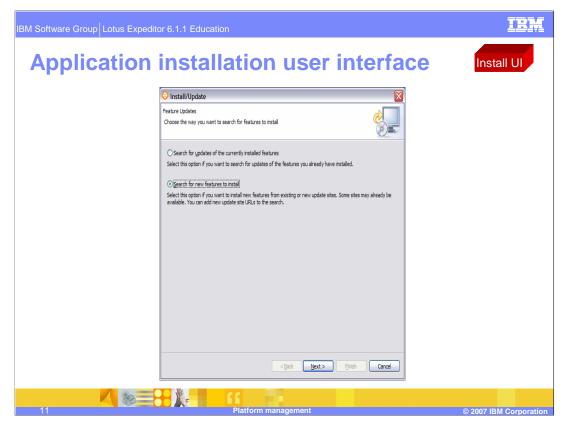
- bootclasspath
- •PATH/LD LIBRARY PATH
- •class path
- VM System properties
- •VM
- Other properties

Ability to set locations of JVM, RCP base location, RCP launcher location, provisioning manifest location and version

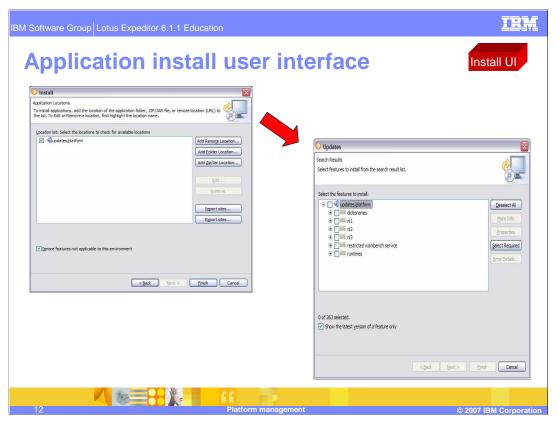
Ability to launch a native script or executable



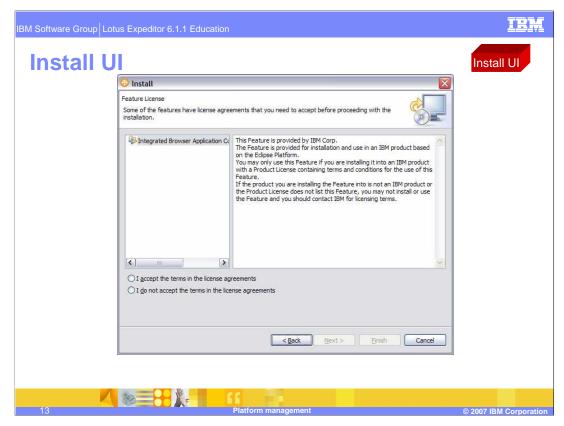
This slide shows the application install user interface. Launch the client workbench, click **Application**, and then click **Install**.



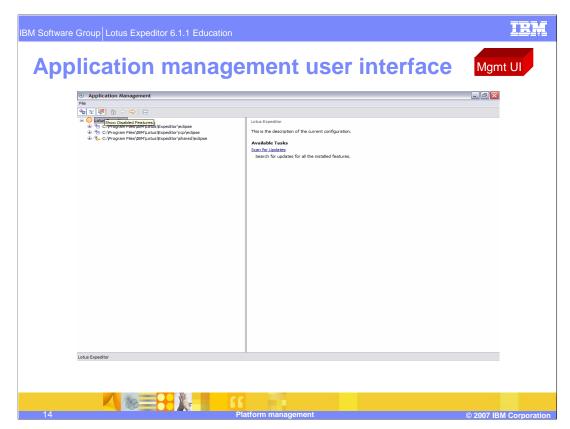
This slide shows the application install user interface. Click the radio button **Search for new features to install** and click **Next**.



This slide shows the application install user interface. To install applications, add the location of the application folder, ZIP/JAR file, or remote location (or URL) to the list. Select the site you wish to install from and click **Finish**. The next screen will display all features that can be selected to be installed.

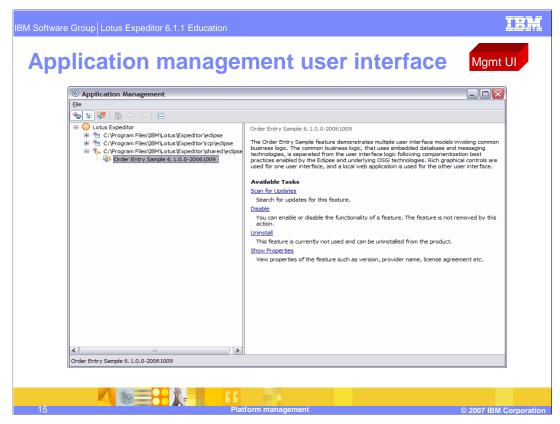


This slide shows the application install user interface. Accept the license and click **Finish** to install the feature.

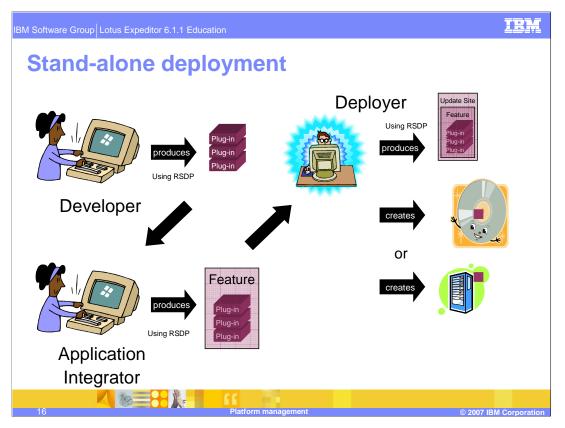


This slide shows the application management user interface. Launch the client workbench, click **Application**, and then click **Application Management**. The installed features are broken down into three groups: Eclipse features, RCP features, and Shared features.

One option on the toolbar is "Show Disable Features" – if a feature has been disabled but not uninstalled, it will displayed when this icon is selected.



This slide shows the application management user interface. When you highlight an application or feature that is installed, all possible actions are displayed in the right hand view. These include: **Scan for updates**, **Disable**, **Uninstall and Show Properties**.



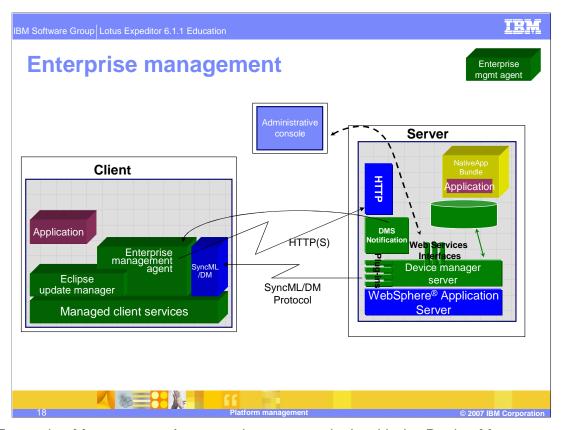
Let's now walk through the process of stand-alone deployment. The Developer uses the Rational Software Development Platform (or RSDP) to create one or more plug-ins for their software components. They may either use the Plug-in Project wizard in the Plug-in Development Environment (PDE) or the Client Services Project wizard in the Bundle Tools to create the plug-ins.

Next, the Application Integrator uses the Feature Project wizard in the PDE to integrate plug-ins into a Feature.

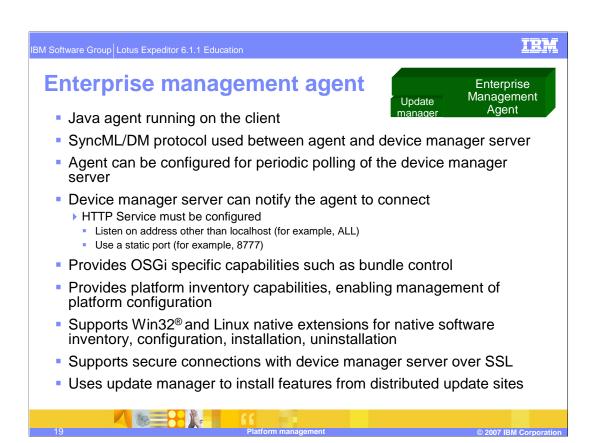
The Deployer then produces an Update Site that contains one or more Features. They can then create Update Sites on CD's or on the Web. End-users can then subsequently access these Update Sites from their client workbench to install Features onto their client platform.



Finally, let's explore enterprise deployment of software and management for the client platform.



The Enterprise Management Agent works co-operatively with the Device Manager server provided by the IBM Lotus Expeditor 6.1 Server to perform management operations. The agent and server use the SyncML/DM protocol defined by the Open Mobile Alliance to communicate management requests. A System Administrator uses the Device Manager (Admin) Console to schedule management jobs for devices that include software installation, update, and configuration. When installing and updating software components, the management system determines which components are already on the device and then installs only the missing components based on information about the dependencies among all the requested components (for example, bundles). The Device Manager server can also notify the Agent about management jobs. When the Agent receives a management job to install components, the Agent uses HTTP/HTTP(S) to pull the necessary components from the Device Manager server. Next, let's discuss Enterprise Management in more detail.

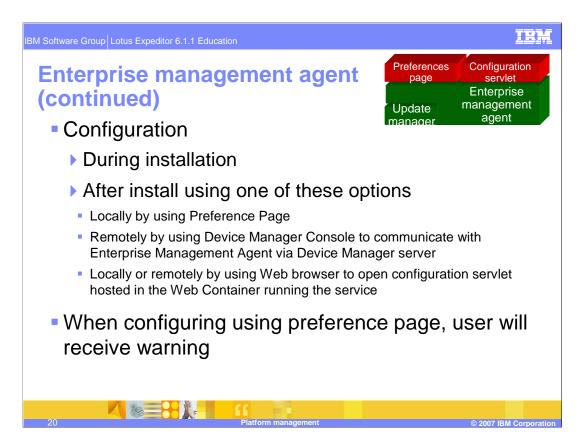


The Enterprise Management Agent is written in Java and runs on the Managed Client Services provided by the client platform. The agent uses the SyncML/DM protocol to communicate with the Device Manager server to perform management jobs. The agent can be configured to periodically poll the Device Manager server for jobs. However, the Device Manager server can also notify the agent to connect and then perform a management job (for example, install software). The agent provides OSGi-specific capabilities supported by the Managed Client Services (such as bundle control), and provides inventory capabilities so a System Administrator can manage the configuration of the client platform.

The agent supports native extensions to manage native software on Windows and Linux clients. These extensions support Install, Uninstall, Status, Start, Stop, and gathering information from STDOUT/STDERR.

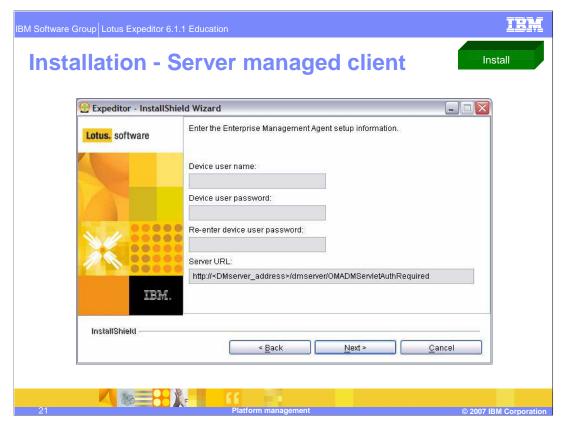
SSL is also enabled to secure the connection between the Enterprise Management Agent and the Device Manager server.

The Device Manager server now also deploys Features. The features and update sites can be directly registered to the Device Manager Server. In the previous versions, the site was wrapped in a bundle using NativeAppBundle tool and then deployed to the client. The new version eliminates the tedious step of using the NativeAppBundle tool to wrap the site.



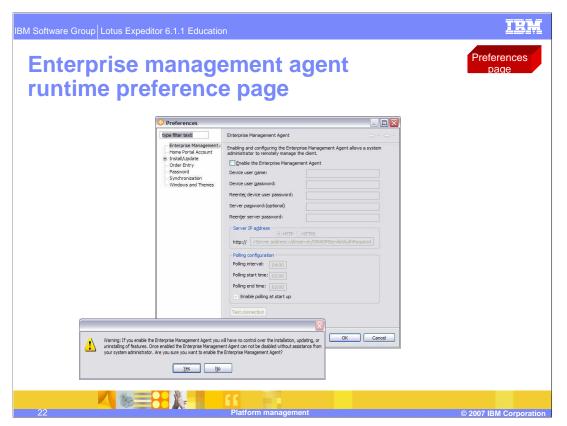
You can configure the Enterprise Management Agent either during or after installation of the client. You are prompted to configure the agent while installing the client platform, and, if you choose to do so, you can use a Preferences Page to provide the information necessary to connect the agent to a Device Manager server. You may also configure the agent after installing the client by using one of the following options.

- An end-user can configure the agent locally from the client workbench by clicking **File** -> **Preferences** -> **Enterprise Management Agent** and then use the Preferences Page to configure the agent.
- A System Administrator can remotely configure the agent by using the Device Manager Console to configure the agent via the Device Manager server.
- A System Administrator can locally or remotely configure the agent by using a Web browser to open a configuration servlet that is hosted by the Web container running the client service. When the IBM Lotus Expeditor client is installed as a system management service, the Enterprise Management Agent Servlet is the only way to configure and control the Enterprise Management Agent.
- If you choose to enable the Enterprise Management Agent, the end-user will no longer have control over installing, updating, or uninstalling features so check with your Systems Administrator before you enable the agent.

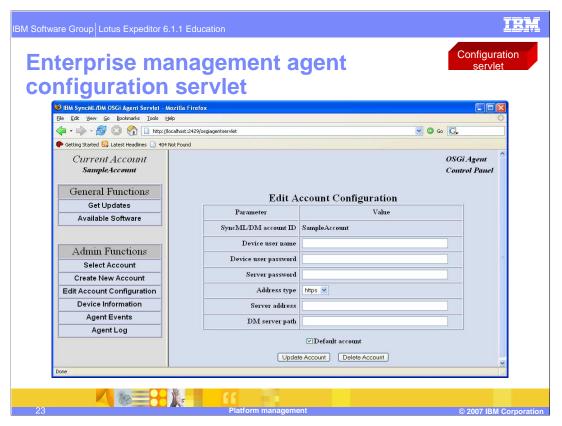


To complete this Wizard window, users enter their device user name and password and provide a device name and password which is provided by administrator.

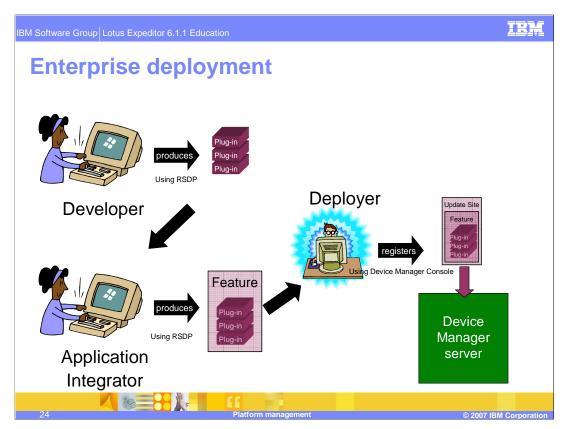
Users type the device management server address in the Server URL field.



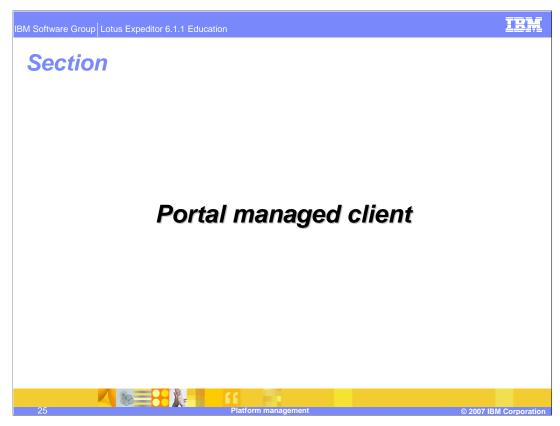
This slide shows the enterprise management agent configuration page, which is displayed in the client workbench after you have installed the client. To display this page, launch the client workbench and click **File** -> **Preferences** -> **Enterprise Management Agent**. If you choose to enable the Enterprise Management Agent, you will be prompted with the warning shown on this slide. Again, if you enable the enterprise management agent, the end-user will no longer have control over installing, updating, or uninstalling features, so check with your systems administrator before you enable the agent.



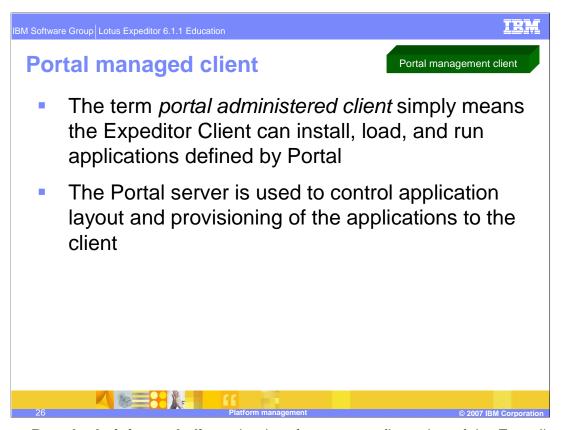
This slide shows the initial web page provided by the configuration servlet.



Let's now walk through the process of Enterprise deployment. The Developer and Application Integrator perform the same steps as in Stand-alone Deployment. The Deployer then produces an Update Site that contains one or more Features. Next, the Deployer uses the Device Manager Console to register the individual Feature or the whole update site (through DMS CLI) with the Device Manager server. The System Administrator can subsequently use the console to schedule deployment of feature(s) to one or more clients. The Enterprise Management Agent on a receiving client downloads the featur (s) and create a temporary site and invokes the local Update Manager to install the Update Site, and its Features and plug-ins, onto the client platform.



Finally, let's explore Portal deployment of software and configuration.



The term **Portal administered client** simply refers to a configuration of the Expeditor platform that can install, load and run applications defined by a central WebSphere Portal Server.

IBM Software Group Lotus Expeditor 6.1.1 Education Portal managed client Portal management client The following Portlets allow the Expeditor client to be managed by the Portal server Rich client layout administration portlet the rich client layout administration portlet is an extension to the portal page customizer that is used to manage common rich client-specific metadata. Managed browser administration portlet the managed browser administration portlet enables WebSphere Portal to centrally manage instances of the managed browser view on the client. Workbench administration portlet the workbench administration portlet enables WebSphere Portal to manage items contributed to the various portions of the Expeditor Client workbench. These portlets provide a way to make user role based contributions to the workbench. Rich client WSRP viewer enablement portlet use the rich client WSRP viewer enablement portlet to configure a WSRP portlet for the Expeditor Client platform.

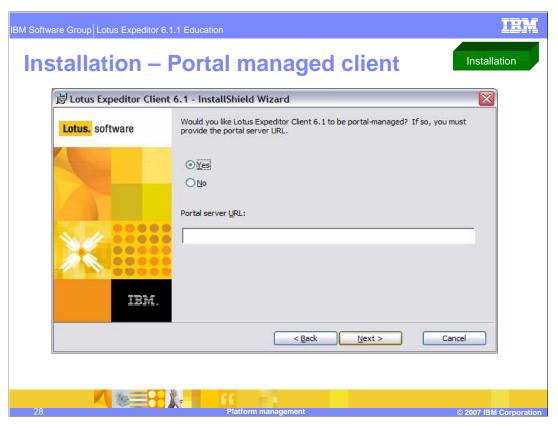
Provided for the Expeditor desktop client are four portlets which allow the Expeditor client to be managed by the Portal server. These portlets are installed by the Network Client

These portlets are installed on the Portal server by the network client

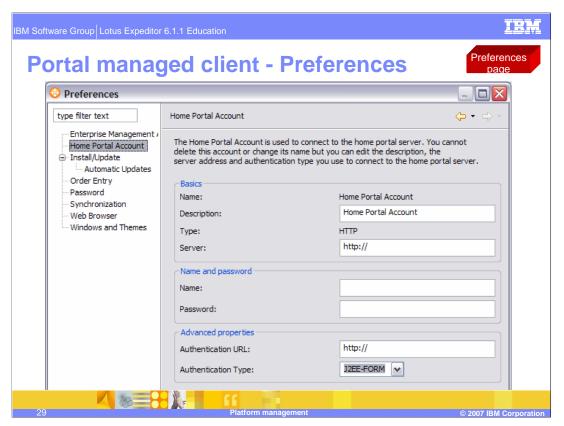
installer

Installer onto the Portal Server.

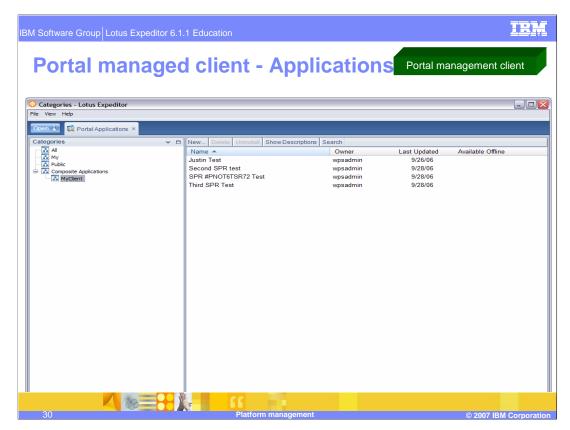
- •The Rich Client Layout Administration Portlet is an extension to the Portal page customizer that is used to manage common rich client-specific metadata.
- •The Managed Browser Administration Portlet enables WebSphere Portal to centrally manage instances of the Managed Browser view on the client.
- •The Workbench Administration portlet enables WebSphere Portal to manage items contributed to the various portions of the Expeditor Client workbench. These portlets provide a way to make user-role-based contributions to the workbench.
- •The Rich Client WSRP Viewer Enablement Portlet allows you to configure a WSRP portlet for the Expeditor Client platform.



This slide shows the configuration screen displayed during install for the Portal managed client. The configuration information required is the Portal server address.



This slide shows the home portal account preference page, which is displayed in the client workbench after you have installed the client. To display this page, launch the client workbench and click **File** -> **Preferences** -> **Home Portal Account**. Configuration includes Portal server address, user name and password, authentication type and authentication URL.



This slide shows the Expeditor workbench after applications have been provisioned from the Portal server.

The Portal Home Account has been defined, and the client platform has connected to the specified Portal Server. The applications have been downloaded onto the client.

Click Open->Portal Applications to see this view.

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Platform managemen

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