



## Installation Guide

**Note**

Before using this information and the product it supports, read the information in "Notices," on page 13.

**First Edition (August 2005)**

This edition applies to version 2.5 of IBM Workplace Designer (product number L-GHUS-6B9KPF) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Welcome to Workplace Designer installation

IBM® Workplace™ Designer provides an environment for building components which can be deployed as applications on IBM Workplace Collaboration Services or IBM Workplace Services Express servers.

There are two parts to Workplace Designer: the tool and the runtime files.

You can use the Workplace Designer tool to explore sample components provided with Workplace Designer and create your own components.

You can run Workplace Designer components as applications after installing the Workplace Designer runtime files on a Workplace Collaboration Services or Workplace Services Express server. If you do not already have a server, Workplace Designer provides the Workplace Collaboration Services server, licensed for test purposes only.

You can also purchase full licenses for and install Workplace Collaboration Services 2.5.1 or Workplace Services Express 2.5. Full licenses for IBM Workplace Collaboration Services and IBM WebSphere® Portal, or for IBM Workplace Services Express, are required for deploying components to a production environment.

For more documentation, after you have installed and started Workplace Designer click **Help** → **Help Contents**.

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## System requirements

This topic describes requirements for installing IBM Workplace Designer 2.5.

### Server requirements

The Workplace Designer runtime files must be installed on an existing IBM Workplace Collaboration Services 2.5.1 server or IBM Workplace Services Express 2.5 server.

The computer containing the Workplace Designer runtime files must have 90 MB of disk space in addition to the disk space required by the Workplace Collaboration Services server or Workplace Services Express server. It must also have a minimum of 2 GB of RAM to test Workplace Designer components.

The Workplace Designer runtime files are supported on the same Microsoft® Windows®, Linux™, IBM AIX®, Sun Solaris, and IBM iSeries™ operating systems that the Workplace Collaboration Services 2.5.1 server or Workplace Services Express server supports.

### Client requirements

The Workplace Designer tool must be installed on the same computer as the IBM Workplace Managed Client.

The computer containing the Workplace Designer tool and Workplace Client Technology requires .5 GB of disk space. It must also have, at minimum, an Intel® Pentium® 3, 800 MHz processor, and 512 MB of RAM.

The Workplace Designer tool is supported on the same Microsoft Windows and Linux operating systems as the IBM Workplace Managed Client.

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## Installing Workplace Designer with Workplace Collaboration Services server

This section describes the steps for installing IBM Workplace Designer with the IBM Workplace Collaboration Services 2.5.1 server.

You can install Workplace Designer on a fully licensed Workplace Collaboration Services production deployment, or Workplace Designer provides Workplace Collaboration Services servers for test purposes only. A full license for Workplace Collaboration Services and IBM WebSphere Portal is required for deploying Workplace Designer components to a production environment.

The Workplace Collaboration Services server, the HTTP server, the rich client provisioning server, and Workplace Designer runtime files can be installed on a server computer, and the IBM Workplace Managed Client™ and Workplace Designer tool can be installed on a client computer. You can also install everything on one computer.

For documentation on steps 1, 2, 3, and 5, see the IBM Workplace Collaboration Services 2.5.1 Information Center, on the Web at <http://www.lotus.com/ldd/doc>.

Perform the following steps to install Workplace Designer:

1. Install a Workplace Collaboration Services server.
2. Install an HTTP server.
3. Install the rich client provisioning server.
4. Do one of the following, according to your deployment:
  - Install the Workplace Designer runtime files on a single server
  - Install the Workplace Designer runtime files in a Network Deployment.
5. Install the Workplace Managed Client from the Workplace Collaboration Services server using the Workplace Managed Client URL.
6. Install the Workplace Designer tool.
7. Optional: Install the Workplace Collaboration Services API toolkit.

## Installing the Workplace Designer tool

Perform these steps to install the IBM Workplace Designer tool on a Microsoft Windows or Linux computer, in a deployment with an IBM Workplace Collaboration Services 2.5.1 server. You must install the IBM Workplace Managed Client before installing the IBM Workplace Designer tool.

1. Exit the Workplace Managed Client if it is running, and uninstall any previous versions of the Workplace Designer tool.
2. If you are installing from the Web, create one of the following installation directories, and then unzip the Workplace Designer files to the directory. (If you are installing from the CDs, go to Step 3.):
  - On Microsoft Windows computers, create C:\WPLC25Install.
  - On Linux computers, create /opt/IBM/Workplace/WPLC25Install.
3. Perform one of the following steps to run the Workplace Designer tool installation program:

- If you are installing from the CDs, insert the IBM Workplace Designer tool v2.5 Multiplatform Multilingual CD into the client computer, navigate to the \Client directory, and then run either DesignerClientSetupWin32.exe (Windows) or DesignerClientSetupLinux.bin (Linux).
  - If you are installing from the Web, either navigate to C:\WPLC25Install\Client (Windows), and then run DesignerClientSetupWin32.exe, or navigate to /opt/IBM/Workplace/WPLC25Install/Client (Linux), and then run ./DesignerClientSetupLinux.bin.
4. In the **Select a language to be used for this wizard** dialog box, click **OK**.
  5. In the **Welcome to IBM Workplace Designer Installation** dialog box, click **Next**.
  6. In the license agreement dialog box, select **I accept the terms in the license agreement**, and then click **Next**.
  7. For the location of Workplace Managed Client, make sure that the information is correct, and then click **Next**.
  8. For the location of Workplace Designer, accept the default and then click **Next**.
  9. In the summary dialog box, verify the information, and then click **Next**.
  10. In the success dialog box, click **Finish**.
  11. Do one of the following tasks to start Workplace Designer:
    - On Windows, double-click the **IBM Workplace Designer** icon on the desktop.
    - On Linux, start the Workplace Managed Client, and then click **Tools** → **Launch IBM Workplace Designer**.

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## Installing Workplace Designer for Workplace Services Express server

This section describes the steps for installing IBM Workplace Designer with the IBM Workplace Services Express 2.5 server.

You must have access to a licensed copy of Workplace Services Express 2.5 server and the associated install instructions.

The Workplace Services Express server, the HTTP server, and Workplace Designer runtime files can be installed on a server computer, and the IBM Workplace Managed Client and Workplace Designer tool can be installed on a client computer. You can also install everything on one computer.

For Workplace Services Express 2.5 installation documentation, go to <http://www.lotus.com/products/product5.nsf/wdocs/productdoc>. For HTTP server installation documentation, see the IBM Workplace Collaboration Services 2.5.1 information center at <http://www.lotus.com/ldd/notesua.nsf>.

Perform the following steps to install Workplace Designer:

1. Install a Workplace Services Express 2.5 server.
2. Install an HTTP server.
3. Install Workplace Designer runtime files.
4. Install Workplace Managed Client with the Workplace Designer tool.
5. Optional: Install the Workplace Collaboration Services API toolkit.

## Installing the Workplace Managed Client and the Workplace Designer tool

Perform these steps to install the IBM Workplace Managed Client and the IBM Workplace Designer tool on a Microsoft Windows or Linux computer, in a deployment with an IBM Workplace Services Express 2.5 server. The Workplace Managed Client is provided with Workplace Designer.

1. Uninstall any previous versions of the Workplace Designer tool.
2. If you are installing from the Web, create one of the following installation directories, and then unzip the Workplace Designer files to the directory. (If you are installing from the CDs, go to Step 3.):
  - On Microsoft Windows computers, create C:\WPLC25Install.
  - On Linux computers, create /opt/IBM/Workplace/WPLC25Install.
3. Perform the following actions to run the program to install the Workplace Managed Client and Workplace Designer tool:
  - If you are installing from the CD, insert the IBM Workplace Designer tool v2.5 Multiplatform Multilingual CD into the client computer, navigate to the \WMC25 directory, and run either setup\_wct\_platform.exe (Windows) or ./setup\_wct\_platform.bin (Linux).
  - If you are installing from the Web, either navigate to C:\WPLC25Install\WMC25 (Windows), and then run setup\_wct\_platform.exe, or navigate to /opt/IBM/Workplace/WPLC25Install/WMC25 (Linux), and then run ./setup\_wct\_platform.bin.
4. In the **Welcome to IBM Workplace rich client** dialog box, click **Next**.
5. In the license agreement dialog box, select **I accept the terms in the license agreement**, and then click **Next**.
6. For the location of Workplace Managed Client, specify a directory, and then click **Next**.
7. In the summary dialog box, verify the information, and then click **Next**.
8. In the success dialog box, click **Next**.
9. When the Workplace Managed Client login screen opens, log in by typing your user name and password and the host name of the Workplace Services Express server, and then click **Next**.
10. Click **Cancel** in the **Provisioning server URL** dialog box. The Workplace Managed Client launches.
11. Click **File** → **Exit** to exit the Workplace Managed Client.
12. To create an icon for Workplace Designer on your desktop, perform the following steps:
  - a. Right-click the **IBM Workplace** icon on your desktop, and then select **Create Shortcut**.
  - b. Right-click the **IBM Workplace (2)** icon on your desktop, select **Rename**, and then type IBM Workplace Designer.
  - c. Right-click the **IBM Workplace Designer** icon, and then select **Properties**.
  - d. In the **Target** field, change the target from "-personality com.ibm.workplace.personality" to "-personality com.ibm.workplace.des.ide.personality", and then click **OK**.
13. Click the **IBM Workplace Designer** icon on your desktop to start Workplace Designer.

## Installing Workplace Designer runtime files on a single server

You must install the IBM Workplace Designer runtime files on computers on which either an IBM Workplace Collaboration Services 2.5.1 server, or an IBM Workplace Services Express 2.5 server, is already installed.

1. Open a command window and perform the following actions to shut down the Workplace server, if it is running:

Operating system	Action
Microsoft Windows	<ol style="list-style-type: none"> <li>1. Navigate to            \[WSE_HOME]or[WCS_HOME]            \PortalServer\            rootscripts\subtasks\            (for example,            C:\WebSphere\PortalServer\            rootscripts\subtasks\            ), and then run: stopPortalServer.bat            -username [administrator_username] -            password [administrator_password]</li> <li>2. In the same directory, run            stopWorkplaceServices.bat</li> </ol>
Linux, IBM AIX, Sun Solaris	<ol style="list-style-type: none"> <li>1. Navigate to            /[WSE_HOME]or[WCS_HOME]            /PortalServer/            rootscripts/subtasks/            (for example,            opt/IBM/Workplace/            PortalServer/rootscripts/subtasks/            ), and then run: ./stopPortalServer.sh            -username [administrator_username]            -password [administrator_password]</li> <li>2. In the same directory, run            ./stopWorkplaceServices.sh</li> </ol>
IBM iSeries	<ol style="list-style-type: none"> <li>1. Navigate to            /[WSE_HOME]or[WCS_HOME]            /PortalServer/            rootscripts/subtasks/            (for example,            /QIBM/UserData/WebAS5/            Base/&lt;Instance&gt;/PortalServer/            rootscripts/subtasks/            ), and then run: ./stopPortalServer.sh            -username [administrator_username]            -password [administrator_password]</li> <li>2. In the same directory, run:            ./stopWorkplaceServices.sh</li> </ol>

2. If you are installing from the Web, create a WPLC25Install directory (for example, C:\WPLC25Install on Microsoft Windows), and then unzip the Workplace Designer files to the directory. (If you are installing from the CDs, go to Step 3.):
3. Perform the following actions to run the Workplace Designer runtime installation program:

Operating system	Action
Microsoft Windows	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the \Server directory, and then run DesignerServerSetupWin32.exe.</li> <li>• If you are installing from the Web, navigate to C:\WPLC25Install\Server, and then run DesignerServerSetupWin32.exe.</li> </ul>
Linux	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the /Server directory, and then run ./DesignerServerSetupLinux.bin.</li> <li>• If you are installing from the Web, navigate to  /[WSE_HOME]or[WCS_HOME] /WPLC25Install/Server , and then run ./DesignerServerSetupLinux.bin.</li> </ul>
IBM AIX	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the /Server directory, and then run ./DesignerServerSetupAIX.bin.</li> <li>• If you are installing from the Web, navigate to  /[WSE_HOME]or[WCS_HOME] /WPLC25Install/Server , and then run ./DesignerServerSetupAIX.bin.</li> </ul>
Sun Solaris	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the /Server directory, and then run ./DesignerServerSetupSolarisSparc.bin.</li> <li>• If you are installing from the Web, navigate to  /[WSE_HOME]or[WCS_HOME] /WPLC25Install/Server , and then run ./DesignerServerSetupSolarisSparc.bin.</li> </ul>

Operating system	Action
IBM iSeries	<p>Do on of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the \Server directory, and then run <code>java -cp .\DesignerServerSetup.jar run -os400</code> or <code>.\install400.bat</code>. Then in the dialog box, enter your computer's host name, administrator name, and password.</li> <li>• If you are installing from the Web, open command window on Windows machine, navigate to <code>C:\WPLC25Install\Server</code>, and run <code>java -cp .\DesignerServerSetup.jar run -os400</code> or <code>.\install400.bat</code>. Then in the dialog box, enter your computer's host name, administrator name, and password.</li> </ul>

4. In the **Select a language to be used for this wizard** dialog box, click **OK**.
5. In the **Welcome to IBM Workplace Designer Runtime Installation** dialog box, click **Next**.
6. In the license agreement dialog box, select **I accept the terms in the license agreement**, and then click **Next**.
7. For the Workplace Collaboration Services server location (meaning either the Workplace Collaboration Services or Workplace Services Express servers), keep the default cell name and node name, enter the administrator user name and password, and then click **Next**.
8. For the location of the Workplace Designer runtime directory, accept the default, and then click **Next**.
9. In the summary dialog box, verify the information, and then click **Next**.
10. In the success dialog box, click **Finish**.
11. Open a command window, and then perform the following actions to start the Workplace server. It might take up to 15 minutes:

Operating system	Action
Microsoft Windows	<ol style="list-style-type: none"> <li>1. Navigate to <code>\[WSE_HOME]or[WCS_HOME]\PortalServer\rootscripts\subtasks\</code>, and run <code>startNetworkServer.bat</code>.</li> <li>2. In the same directory, run <code>startPortalServer.bat</code>.</li> </ol>
Linux, IBM AIX, Sun Solaris	<ol style="list-style-type: none"> <li>1. Navigate to <code>/[WSE_HOME]or[WCS_HOME]/PortalServer/rootscripts/subtasks/</code>, and run <code>./startNetworkServer.sh</code>.</li> <li>2. In the same directory, run <code>./startPortalServer.sh</code>.</li> </ol>

Operating system	Action
IBM iSeries	<ol style="list-style-type: none"> <li>1. Install the IBM Workplace Designer EAR file.</li> <li>2. Navigate to /[WSE_HOME]or[WCS_HOME] /PortalServer/ rootscripts/subtasks , and run ./startNetworkServer.sh.</li> <li>3. In the same directory, run ./startPortalServer.sh.</li> </ol>

12. Perform the following steps to make sure that the IBM Workplace Designer runtime EAR file installed properly:
  - a. Log in to the IBM WebSphere Application Server Administrative Console (<http://<full.dns.hostname>:9091/admin>) as an administrator.
  - b. Click **Applications** → **Enterprise Applications** and verify that LWP\_Designer\_Runtime has been deployed. If it hasn't started yet, select the check box next to LWP\_Designer\_Runtime, and then click the **Start** button at the top of the page.
  - c. Click **Lotus Workplace** → **Licenses** to verify that there is a Workplace Designer license.

**Tip:** Troubleshoot installation errors by looking at the installlog5.txt file located in the Workplace Designer product directory.

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## Installing Workplace Designer runtime files in a Network Deployment

An IBM Workplace Collaboration Services 2.5.1 Network Deployment must be installed before you can proceed with these instructions. The IBM Workplace Designer runtime files must be installed on each node in the deployment, on the same machines as the Workplace servers.

**Note:** The Workplace Collaboration Services servers provided with Workplace Designer are for test purposes only. You cannot create a Network Deployment from them, or add them to an existing Network Deployment. You must have fully licensed Workplace servers in a Network Deployment. For Workplace Collaboration Services 2.5.1 Network Deployment documentation, see the IBM Workplace Collaboration Services 2.5.1 Information Center, on the Web at <http://www.lotus.com/idd/doc>.

1. Log in to the IBM WebSphere Administrative Console on the Deployment Manager computer and stop all servers on each node in the deployment, and then stop the Deployment Manager server.
2. Perform the following steps to install the Workplace Designer runtime files on each node in the deployment:
  - a. If you are installing from the Web, create a WPLC25Install directory (for example, C:\WPLC25Install on Microsoft Windows), and then unzip the Workplace Designer files to the directory. (If you are installing from the CDs, go to Step b.):
  - b. Perform the following actions to run the Workplace Designer runtime installation program:

Operating system	Action
Microsoft Windows	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the \Server directory, run DesignerServerSetupWin32.exe.</li> <li>• If you are installing from the Web, navigate to C:\WPLC25Install\Server, and then run DesignerServerSetupWin32.exe.</li> </ul>
Linux	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the /Server directory, run ./DesignerServerSetupLinux.bin.</li> <li>• If you are installing from the Web, navigate to  /[WSE_HOME]or[WCS_HOME] /WPLC25Install/Server , and then run ./DesignerServerSetupLinux.bin.</li> </ul>
IBM AIX, Sun Solaris	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the /Server directory, run ./DesignerServerSetupAIX.bin or ./DesignerServerSetupSolarisSparc.bin.</li> <li>• If you are installing from the Web, Navigate to  /[WSE_HOME]or[WCS_HOME] /WPLC25Install/Server , and then run ./DesignerServerSetupAIX.bin or ./DesignerServerSetupSolarisSparc.bin.</li> </ul>
IBM iSeries	<p>Do on of the following:</p> <ul style="list-style-type: none"> <li>• If you are installing from the CDs, insert the IBM Workplace Designer Runtime v2.5 Multiplatform Multilingual CD, navigate to the \Server directory, and then run java -cp .\DesignerServerSetup.jar run -os400 or .\install400.bat. Then in the dialog box, enter your computer's host name, administrator name, and password.</li> <li>• If you are installing from the Web, open command window on Windows machine, navigate to C:\WPLC25Install\Server, and run java -cp .\DesignerServerSetup.jar run -os400 or .\install400.bat. Then in the dialog box, enter your computer's host name, administrator name, and password.</li> </ul>

c. In the **Select a language to be used for this wizard** dialog box, click **OK**.

- d. In the **Welcome to IBM Workplace Designer Runtime Installation** dialog box, click **Next**.
- e. In the license agreement dialog box, select **I accept the terms in the license agreement**, and then click **Next**.
- f. For the Workplace Collaboration Services server location type the cell and node name of the computer, and leave the administrator user name and password fields blank. A server's cell name and node name are typically the same as the machine name, and can be found in the following path:

Operating system	Path
Microsoft Windows	[WSE_HOME]or[WCS_HOME] /AppServer/config/cells/[cell_name] /nodes/[node_name]
Linux, IBM AIX, Sun Solaris	[WSE_HOME]or[WCS_HOME] /AppServer/config/cells/[cell_name] /nodes/[node_name]
IBM iSeries	[WSE_HOME]or[WCS_HOME] /config/cells/[cell_name] /nodes/[node_name]

- g. For the location of the Workplace Designer runtime directory, accept the default, and then click **Next**.
  - h. In the summary dialog box, verify the information, and then click **Next**.
  - i. In the success dialog box, click **Finish**.
3. Copy the following files from the first node in the deployment to the [DM\_HOME]/config/cells/[cell-name]/ directory on the Deployment Manager computer:
    - [WCS\_HOME]/AppServer/config/cells/[cell-name]/lwpllicense.xml
    - [WCS\_HOME]/AppServer/config/cells/[cell-name]/lwpllicense.xml.bak

**Note:** [DM\_HOME] is the directory where the Deployment Manager is installed, for example, /opt/WebSphere/DeploymentManager.  
[WCS\_HOME] is the directory where the Workplace Collaboration Services server is installed, for example, /opt/IBM/Workplace.
  4. Copy the following files from every node in the deployment to the [DM\_HOME]/config/cells/[cell-name]/nodes/[node-name]/ directory on the Deployment Manager computer:
    - [WCS\_HOME]/AppServer/config/cells/[cell-name]/nodes/[node-name]/libraries.xml
    - [WCS\_HOME]/AppServer/config/cells/[cell-name]/nodes/[node-name]/libraries.xml.bak

**Note:** [DM\_HOME] is the directory where the Deployment Manager is installed, for example, /opt/WebSphere/DeploymentManager.  
[WCS\_HOME] is the directory where the Workplace Collaboration Services server is installed, for example, /opt/IBM/Workplace.
  5. Restart the Deployment Manager, and then log in to the WebSphere Administrative Console on the Deployment Manager computer and restart all servers on all nodes in the deployment.
  6. Copy the designer.runtime.ear file from the [install\_directory]/WorkplaceServer/Designer/lib directory on one of the nodes to a temporary directory on the Deployment Manager computer.

7. From the WebSphere Administrative Console on the Deployment Manager computer, install the EAR file you copied in Step 6.

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## Installing the Workplace Designer runtime server EAR file

Perform the following steps to install the IBM Workplace Designer runtime EAR file. This is required if you are installing the Workplace Designer runtime files on an iSeries server, or if you are installing them on the Deployment Manager computer in an IBM Workplace Collaboration Services Network Deployment.

1. Navigate to the IBM WebSphere Application Server Administrative Console at [http://\[full.dns.hostname\]:9091/admin](http://[full.dns.hostname]:9091/admin), and log in as an administrator.
2. Click **Applications** → **Install New Application** in the left-hand panel.
3. At the **Preparing for the application installation** screen, in the **Path** section, browse to the `/opt/IBM/Workplace/WorkplaceServer/Designer/lib` directory, and select `designer.runtime.ear`. Then click **Next**.
4. At the **Generate Default Bindings** screen click **Next**.
5. At the **Step 1: Provide options to perform the installation** screen, make sure **Deploy EJBs** is unchecked, and then click **Next**.
6. At the **Step 2: Provide JNDI names for Beans** screen, click **Next**.
7. At the **Step 3: Map virtual hosts for web modules** screen, check **Web Module**, and then click **Next**.
8. At the **Step 4: Map modules to application servers** screen, do one of the following steps:
  - If you are installing on an iSeries server, select the **WebSphere\_Portal server** from the **Clusters and Servers** list, select the **Modules** check box to select all the modules, and then click **Apply**. Select the **Modules** check box to select all the modules again, and then click **Next**.
  - If you are installing on a Deployment Manager computer in a Network Deployment, select the cluster from the **Clusters and Servers** list, select the **Modules** check box to select all the modules, and then click **Apply**. Select the **Modules** check box to select all the modules again, and then click **Next**.
9. At the **Step 5 Map security roles to users/groups** screen, select the **lwpUser** check box under **Role** and click **Next**.
10. At the **Step 6: Summary** screen, click **Finish**.
11. When the results screen has completed and you see the message **Application LWP\_Designer\_Runtime installed successfully**, click **Save to Master Configuration**.
12. At the **Save to Master Configuration** screen, click the **Save** button. This will return you to the WebSphere Administrative Console home page.
13. Click on **Applications** → **Enterprise Applications** to verify that `LWP_Designer_Runtime` has been deployed. If you see that the application hasn't been started yet, click on the check box next to the application name, and then click the **Start** button at the top of the page.

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## Installing the Workplace Collaboration Services API toolkit

The IBM Workplace Collaboration Services API toolkit allows developers to extend the IBM Workplace Collaboration Services platform with new business components, portlets, and other components using the J2EE programming model. The toolkit provides public APIs (application programming interfaces) and SPIs (service provider interfaces) that customer applications can use. The public IBM

Workplace APIs also supplement the public APIs provided by the underlying IBM WebSphere and IBM WebSphere Portal platforms (not included in this toolkit).

To use the Workplace Collaboration Services API Toolkit with IBM Workplace Designer, you must download and unzip the toolkit, install the runtime files, and move the Javadoc files.

1. Using a browser, navigate to <http://www.lotus.com/ldd/lwpapi> and follow the instructions to download the zipped toolkit files to a directory on the Workplace Collaboration Services server.
2. Unzip the toolkit files. The directory \lwpapi251 is created as a subdirectory to the directory in which you unzipped the file.
3. Install the toolkit runtime files on the IBM Workplace Collaboration Services server. For information, see the topic "Installing the IBM Workplace Collaboration Services API Toolkit runtime files on the IBM Workplace Server" in Chapter 1 of the "IBM Workplace Collaboration Services API Toolkit User's Guide" for Workplace Collaboration Services 2.5.1 at <http://www.lotus.com/ldd/notesua.nsf/find/lwpapi>.

After the toolkit is installed, the API Javadoc is available in the Javadoc for the Workplace classes in Workplace Designer Help. To open Workplace Designer Help, open Workplace Designer and click **Help** → **Help Contents**.

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## Uninstalling Workplace Designer

Perform one of the following actions to uninstall either the IBM Workplace Designer tool or IBM Workplace Designer runtime files:

Operating system	Action
Microsoft Windows	Click <b>Start</b> → <b>Settings</b> → <b>Control Panel</b> → <b>Add/Remove Programs</b> and remove Workplace Designer.
Linux, IBM AIX, Sun Solaris, IBM iSeries	Navigate to [WD_install]/_uninst, and then run uninstaller.bin. <b>Note:</b> [WD_install] refers to the Workplace Designer installation directory (for example, /WPLC25Install).

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## Appendix. Notices

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