

**WebSphere.** Lombardi Edition 7.2

*Authoring Environment Installation and  
Configuration Guide*



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# Introduction

IBM® WebSphere® Lombardi Edition includes several components, as described in the following sections. The components that you install depend upon your requirements. For example, if you want to build processes and share items with other users, you should install Lombardi Authoring Environment and connect to Lombardi Process Center. See [Lombardi installation options](#) for more information.

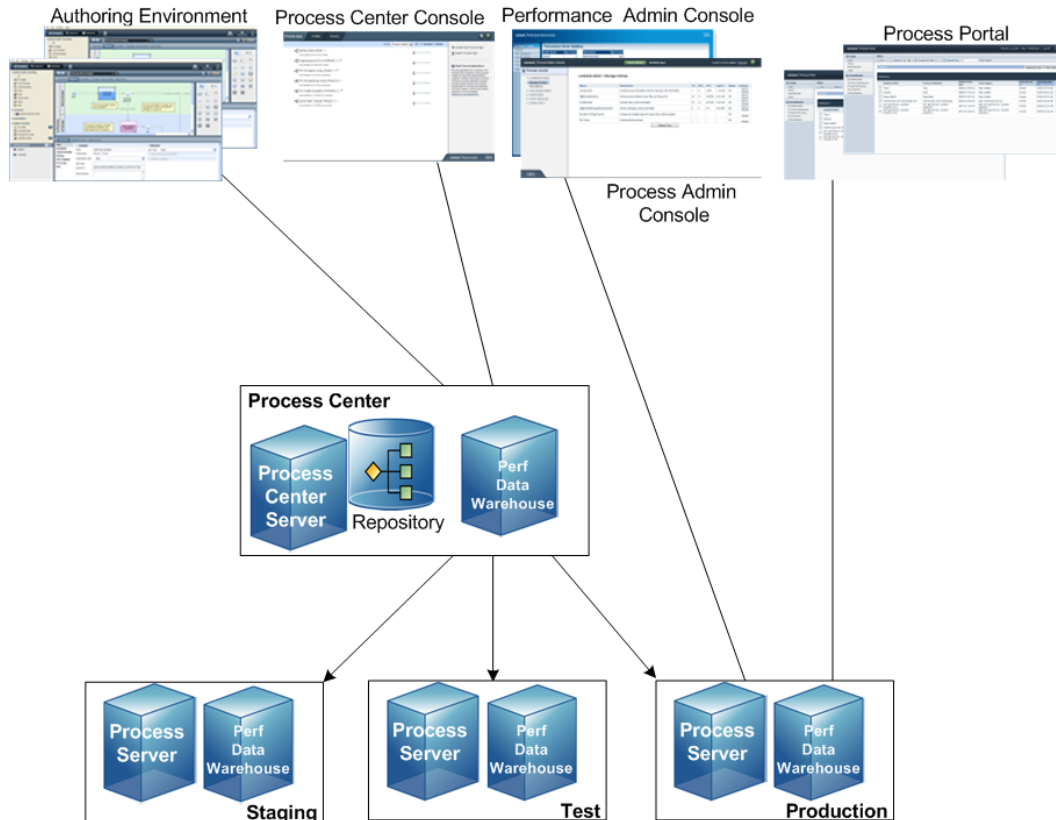
## Lombardi product components

IBM® WebSphere® Lombardi Edition includes the following components. The following diagram illustrates how these components are commonly configured.

Component	Function
Process Center	Provides a central development environment and repository for multiple process authors working in the Process Center Console and other interfaces in Lombardi Authoring Environment. The Process Center includes a Process Center Server and a Performance Data Warehouse, allowing you to build and run process applications and also store performance data for testing and playback purposes during development efforts.
Process Server	Executes the processes and services built in Lombardi Authoring Environment, stored in the Process Center repository, and then installed in a runtime environment.
Performance Data Warehouse	Collects and aggregates process data according to tracking requirements established in Lombardi Authoring Environment.
Process Center Console	Enables you to manage and maintain the Lombardi repository, including management of process applications, workspaces, and snapshots. Also enables installation of process applications on Process Servers in runtime environments.
Authoring Environment	Lombardi Authoring Environment consists of several interfaces to enable process authors to model, implement, simulate, and inspect business processes.
Process Portal	Provides an interface that enables process participants to perform assigned tasks, view the history of tasks, and view the performance of their processes and teams. Using Process Portal, process participants can connect to the Process Center Server or a Process Server in any configured runtime environment, such as test or production environments.
Process Admin Console	Provides an interface that enables administrators to configure and maintain Lombardi Process Servers in any configured runtime environment, such as test or production environments. Also enables administrators to configure and maintain the Process Center Server.
Performance Admin Console	Provides an interface that enables administrators to configure and maintain Lombardi Performance Data Warehouses in any configured runtime environment, such as test or production environments. Also enables administrators to configure and maintain the Performance Data Warehouse included in the Process Center.

## Lombardi architecture


The following diagram illustrates a typical IBM WebSphere Lombardi Edition configuration:



- From Lombardi Authoring Environment, multiple users connect to the Process Center.
- In Lombardi Authoring Environment, users create process models and supporting implementations (process applications) and store those applications and associated items in the Process Center repository. Authoring Environment users connected to the Process Center can share items.
- The Process Center includes a Process Center Server and Performance Data Warehouse, allowing users working in Lombardi Authoring Environment to run their process applications and store performance data for testing and playback purposes during development efforts.
- From the Process Center Console, administrators install process applications that are ready for staging, testing, or production on the Process Servers in those environments.
- From the Process Center Console, administrators manage running instances of process applications in all configured environments.
- From the Process Portal, end users perform assigned tasks. The Process Center Server and Process Servers in configured runtime environments can run the process applications that create the assigned tasks.
- Using the Process Portal, process participants can connect to the Process Center Server or a Process Server in any configured runtime environment, depending on whether a process is being developed, tested, or has been released to a production environment.
- Lombardi Performance Data Warehouse retrieves tracked data from the Process Server or Process Center Server at regular intervals. Users can create and view reports that leverage this data in Lombardi Authoring Environment and Process Portal.

- From the Process Admin Console and Performance Admin Console, administrators can manage and maintain all Lombardi servers.

# Lombardi installation options

If you want to...	You should install...	For instructions, see...
Create process models, implement the process steps, and share your work by connecting to a central repository.	Lombardi Authoring Environment (Windows® only)	<a href="#">Installing Lombardi Authoring Environment</a>
Provide a central repository and shared development environment for process authors.	Lombardi Process Center (includes Process Center Server, Performance Data Warehouse, and Authoring Environment)	<i>Lombardi Process Center Installation and Configuration Guide</i>
Install Lombardi servers in a runtime environment such as staging, test, or production.	Lombardi runtime environment (includes Process Server and Performance Data Warehouse)	<i>Lombardi Runtime Environment Installation and Configuration Guide</i>
Install an isolated Process Center for a single local user for demonstration purposes only.	Lombardi Process Center using Lombardi Installer's Simple option (Windows only)   Do not use the Simple option to install a shared Process Center. For a shared installation, follow the instructions in <i>Lombardi Process Center Installation and Configuration Guide</i> .	<i>Lombardi Express Installation and Configuration Guide</i>
Automate installation of Lombardi Process Center.	Lombardi Process Center using the Automated Installer	<i>Lombardi Automated Process Center Installation and Configuration Guide</i>
Automate installation of Lombardi servers in a runtime environment such as staging, test, or production.	Lombardi runtime environment using the Automated Installer	<i>Lombardi Automated Runtime Environment Installation and Configuration Guide</i>

# Installing Lombardi Authoring Environment

Users of Lombardi Authoring Environment connect to a Process Center repository so that they can share library items across projects. If you want to build processes and share items with other users, you should install Lombardi Authoring Environment.

Lombardi Authoring Environment installation includes the following components:

- Process Center Console
- Designer
- Inspector
- Optimizer

For information about accessing and using Lombardi Authoring Environment interfaces, see [Starting Lombardi Authoring Environment](#).

## Steps for installing Lombardi Authoring Environment

The following tables list the tasks required to install Lombardi Authoring Environment on your system.

### Pre-installation setup

Task	See...
1. Meet the hardware requirements.	<a href="#">Hardware requirements for installing Lombardi Authoring Environment</a>
2. Meet the software requirements.	<a href="#">Software requirements for installing Lombardi Authoring Environment</a>

### Installation

Task	See...
1. Connect to a Lombardi Process Center.	<a href="#">Installing Lombardi Authoring Environment</a>
2. Download the Authoring Environment package from the Process Center Console and extract the contents of the package to your file system.	<a href="#">Installing Lombardi Authoring Environment</a>

### Post-installation tasks

Task	See...
1. Start Lombardi Authoring Environment.	<a href="#">Starting Lombardi Authoring Environment</a>

## Pre-installation setup

Before installing Lombardi Authoring Environment, you must meet the system requirements as described in the following sections.



## Hardware requirements for installing Lombardi Authoring Environment

The following table describes the hardware requirements for installing Lombardi Authoring Environment:

Lombardi installation	Minimum hardware required
Authoring Environment	1.2 GHz processor or equivalent 512 MB available RAM (1 GB is recommended) 400 MB free disk space Screen resolution of 1280 x 1024 pixels

## Software requirements for installing Lombardi Authoring Environment

The following table lists the supported operating systems for installing Lombardi Authoring Environment:

Operating system	Versions
Microsoft® Windows	Microsoft® Windows Server 2003 (64-bit and 32-bit) Microsoft Windows Server 2008 (64-bit and 32-bit) Microsoft Windows Server 2003 R2 (64-bit and 32-bit) Microsoft Windows Server 2008 R2 (64-bit and 32-bit) Microsoft Windows Vista (64-bit and 32-bit) Microsoft Windows XP Service Pack 3 (SP3) Microsoft Windows 7

## Authoring Environment Install

After you have met all the requirements for installation, you are ready to install Lombardi Authoring Environment. No installer program is required to install Lombardi Authoring Environment on your system. If you have access to a Lombardi Process Center repository, you can download the Authoring Environment package from the Process Center Console and extract the contents of the package to your file system, as described in the following section.

See *Managing access to the Process Center repository* in *Lombardi Authoring Environment User Guide* or online help for more information.



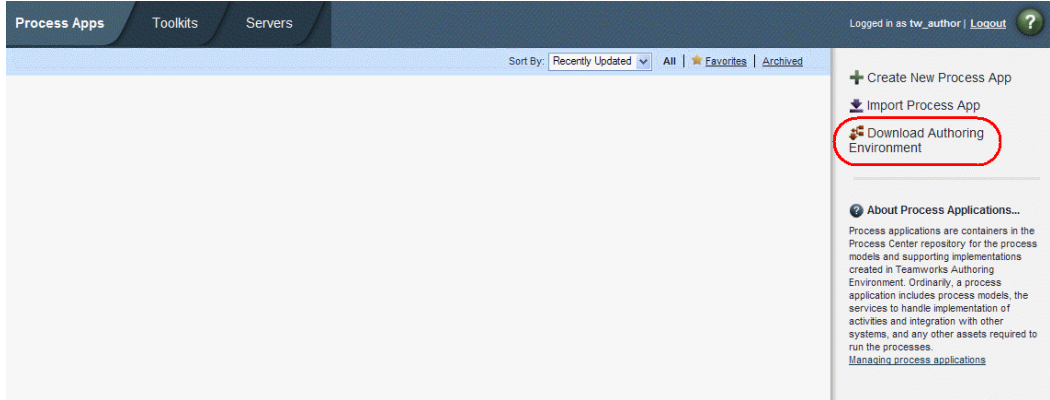
Lombardi Authoring Environment installation is separate from all other Lombardi server installations. Each instance of Lombardi Authoring Environment connects to one Process Center. If you work with multiple Process Centers, then you need to install an Authoring Environment instance for each Process Center that you use.

## Installing Lombardi Authoring Environment

To install Lombardi Authoring Environment on your system:

1. Access the Process Center Console by opening your Web browser to the following location: `http://[host_name]:[port]/ProcessCenter`, providing the name of the host on which the Process Center is installed and the port designated for the Process Center.

- Log on using your Lombardi user name and password.
- Click the **Download Authoring Environment** option, as shown in the following image. When prompted, save the `Lombardi Authoring Environment.zip` file to your file system. This file is a package that contains everything needed to install and run Lombardi Authoring Environment. The download may take several minutes to complete depending on your network connection.



- Using an extraction tool such as WinZip, extract the contents of the `Lombardi Authoring Environment.zip` file to the directory on your file system where you want to install Lombardi Authoring Environment.
- The contents are extracted to a folder named `Lombardi Authoring Environment` in the directory you specified. The Authoring Environment is already configured to connect to the Process Center from which you downloaded the Authoring Environment package, so no additional configuration is required before [Starting Lombardi Authoring Environment](#).



To create a shortcut to Lombardi Authoring Environment that you can access from the Windows Start menu, see [Creating a shortcut to Lombardi Authoring Environment](#).

## Post-installation tasks

After installing Lombardi Authoring Environment on your system, you are ready to start the Authoring Environment and begin modeling processes and sharing library items with other users, as described in the following sections.



The directory where you installed Lombardi product components is referred to as `[Lombardi_home]`.

## Creating a shortcut to Lombardi Authoring Environment

After downloading and extracting Lombardi Authoring Environment as described in [Installing Lombardi Authoring Environment](#), you can create a shortcut to the Authoring Environment that you can access from the Windows Start menu:

- Go to the `[Lombardi_home]\Lombardi Authoring Environment` directory.
- Double-click the `createShortcut.cmd` file to create the shortcut.

You can access the shortcut from **Start > IBM WebSphere Lombardi Edition > Lombardi Authoring Environment**.

## Starting Lombardi Authoring Environment

All process development takes place in Lombardi Authoring Environment. The following topics provide more details about logging in, navigating the initial views, and accessing each available interface in Lombardi Authoring Environment.

After starting Lombardi Authoring Environment as outlined in the following sections, you can run a sample process by following the instructions in *Lombardi Quick Start Tutorial*. The tutorial provides everything you need to start using all Lombardi Authoring Environment features.

## Logging in

Start Lombardi Authoring Environment one of the following ways:

- Double-click the **Lombardi Authoring Environment** Windows® desktop shortcut
- Choose **Start > IBM WebSphere Lombardi Edition > Lombardi Authoring Environment** from the Windows desktop
- Go to [Lombardi\_home]\Lombardi Authoring Environment and run **eclipse.exe**

When the Log In dialog opens, provide the following information:



Contact your Lombardi administrator if you do not already have a user account.

User name	Your Lombardi user name.
Password	Your Lombardi password.

You are connected to the Process Center designated during installation of Lombardi Authoring Environment.

## Navigating initial views

The first time you start Lombardi Authoring Environment, it opens to the Process Center Console:

The screenshot shows the Lombardi Process Center Console. The top navigation bar includes 'Process Apps', 'Toolkits', and 'Servers' tabs. The main content area lists three process applications: 'Billing Processes (BILLING)', 'Quick Start Tutorial (QS)', and 'My New App (MINE)'. Each application entry includes a star icon, a last updated date, and an 'Open in Designer' button. The right sidebar features an 'Admin' button, a 'Create New Process App' button, and an 'Import Process App' button. Below these is an 'About Process Applications...' section with a link to 'Manage process applications'. The bottom of the interface displays the 'Lombardi | Process Center' logo and the IBM logo.

The Process Center Console enables you to create and manage process applications, install snapshots on test and production servers and perform other tasks. The following table describes each numbered area in the preceding image of the Process Center Console:

1	Click one of the available tabs to pick the items you want to create or manage. Clicking <b>Process Apps</b> takes you to the page shown in the preceding image where you can create and manage process applications. Clicking <b>Toolkits</b> takes you to a similar page for managing toolkits. Click <b>Servers</b> to manage the servers configured in your environment.
2	Click <b>Admin</b> to manage access to the Process Center repository.
3	Clicking the <b>Designer</b> button takes you directly to the Designer interface in Lombardi Authoring Environment. To learn more about the Designer and other interfaces in Lombardi Authoring Environment, see the following section. Clicking the Help button opens the online help for Lombardi Authoring Environment.
4	This is the main area of the Process Center Console where the items that you are currently managing, such as process applications, snapshots, or servers, are displayed. You can click the All, Favorites, or Archived options to filter the items displayed. Click an item to view and manage its settings. In the example, you can click one of the listed process applications to view and manage its snapshots, history, and general settings. To open a specific process application in the Designer, click the Open in Designer option for the process application that you want to access.
5	Use these options to either create a new process application or import one.
6	Informational dialogs such as this one are available throughout the Process Center Console. You can click the link shown to learn more about the subject, which in this case is process applications.

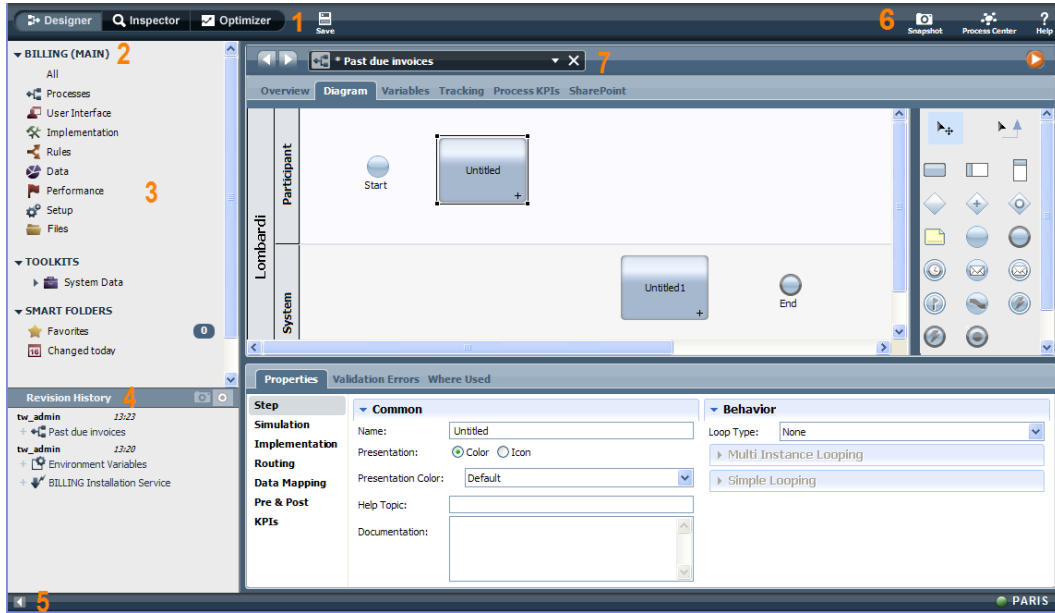
- To create a process application and get started developing processes in Lombardi, see "Creating your first Lombardi project" in the Authoring Environment User Guide or online help.
- To learn about all of the administrative tasks you can perform in the Process Center Console, see "Managing the Process Center repository" in the Authoring Environment User Guide or online help.



You can also access the Process Center Console by opening your Web browser to the following location: `http://[host_name]:[port]/ProcessCenter`. You can log in using your Lombardi user name and password. When accessing the Process Center Console from a browser, you cannot select library items such as process applications and immediately open them in the Designer view. To work interactively with the Designer and other available interfaces, you must start the Authoring Environment.

## Accessing and using Lombardi Authoring Environment interfaces

From the Process Center Console, you can click the **Designer** button or an **Open in Designer** option to begin developing processes in Lombardi Authoring Environment. The following image shows the Designer interface and each functional area:



You can use the Designer interface to develop process models and their underlying implementations, such as services. The following table describes each numbered area in the preceding image of the Designer interface in Lombardi Authoring Environment:

1	Click the appropriate button to open the interface that you want in Lombardi Authoring Environment, including the Optimizer and Inspector views.
2	Shows the process application currently open. In this sample, the Billing process application is open.
3	Shows the types of library items included in the currently open process application. Click a category, such as Processes, to see the processes that you can open and alter.
4	Shows the revision history for the currently open process application. In this sample, a user has recently added items to the open process.
5	Click this icon to hide the library and revision history. The icon enables you to toggle back and forth if you want to alternately hide and view the library and revision history. This toggle control is available in all Lombardi Authoring Environment interfaces: Designer, Optimizer, and Inspector.
6	Use the icons to create snapshots, access the Process Center Console, or access online assistance.
7	Shows the library item currently open for editing in the Designer. In this sample, the user has a process open and is working in the diagram, palette, and properties to create the steps of the process.

To learn more about the tasks that you can perform in each available interface in Lombardi Authoring Environment, including the Process Center Console, see "Lombardi tasks" in the Authoring Environment User Guide or online help.

# Removing Lombardi Authoring Environment

If you need to remove Lombardi Authoring Environment from your system, you should first back up any files that you want to preserve.

To remove Lombardi Authoring Environment, delete the [Lombardi\_home]\Lombardi Authoring Environment directory from your file system.

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