



IBM Software Group

WebSphere® Message Broker Version 6.1

Installation and getting started



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This presentation gives a brief overview of how to install the WebSphere Message Broker version 6.1 and getting started with a default configuration.

Agenda

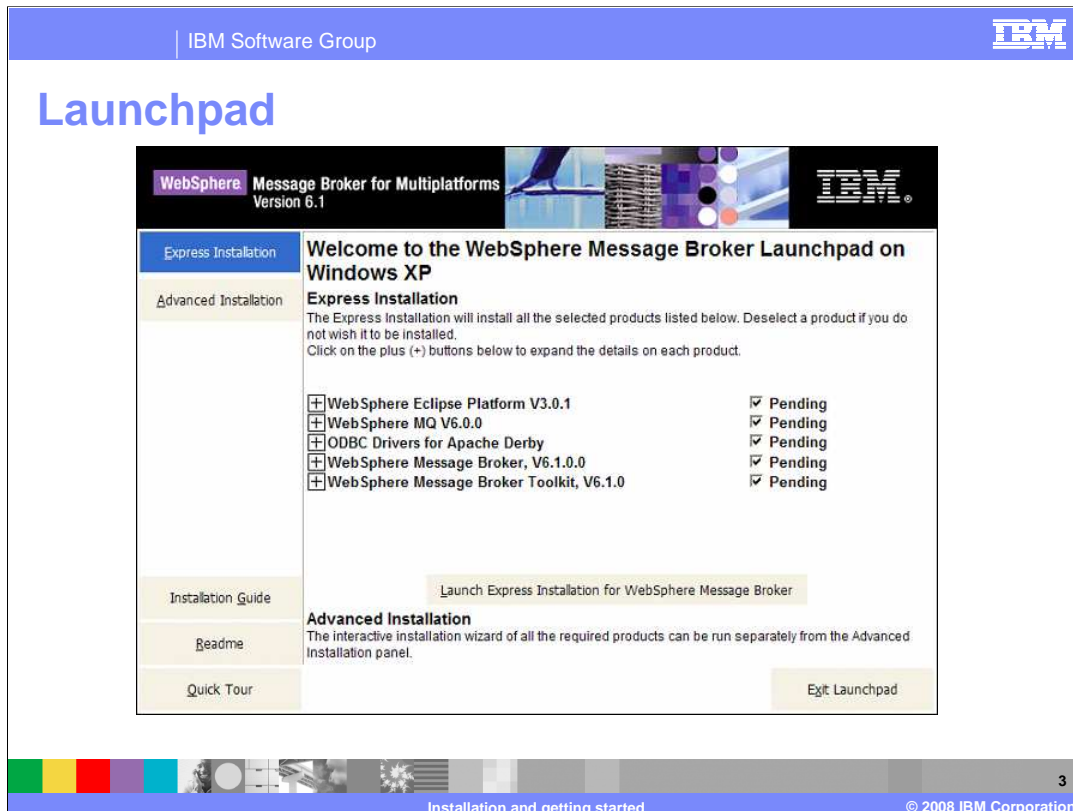
- Installation
- Default configuration wizard
- Samples Gallery

The aim of this session is to take you through the steps required to get WebSphere Message Broker version 6.1 up and running.

This presentation takes you through a basic installation of the product and gives a typical timeline for a product installation.

The installation process for the Message Broker has been considerably simplified, and is much faster than previous releases. The slides that follow take you through a typical installation, showing indicative timings for each step of the installation process. In the example in this presentation, it is possible to have the product installed and a basic working configuration in place within an hour.

As part of the basic installation, this presentation will discuss the Default Configuration Wizard and how to make use of the Samples Gallery.



To start the installation of Message Broker Version 6.1, start the Launchpad, as shown. For those familiar with Version 6 of the product, this looks largely unchanged.

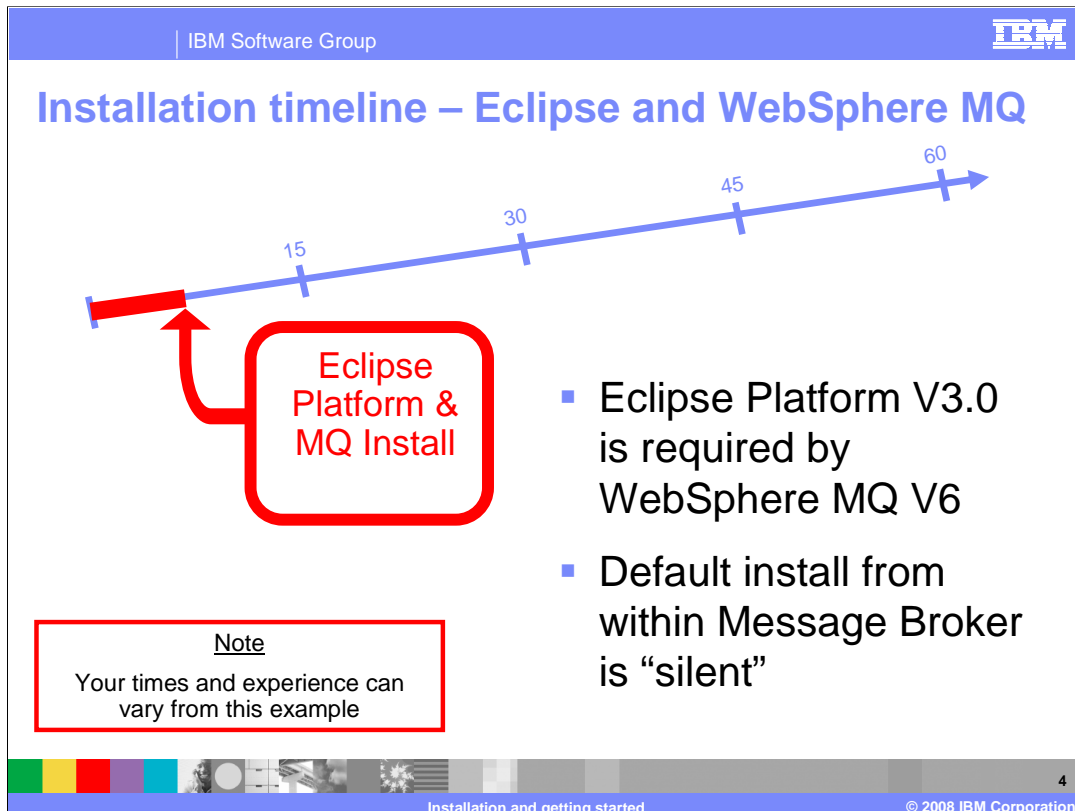
What you see on the initial screen is a list of the components that can be installed, using an Express installation. It indicates what the required components are and what is currently installed on the machine.

What can be seen on this slide are WebSphere Eclipse Platform version 3.0.1, this is required for WebSphere MQ version 6. WebSphere MQ version 6 is a required component.

Also included are the ODBC Drivers for Apache Derby. The Derby database is a light-weight database that is provided for use in a development and testing environment.

Finally there is the Message Broker and the Message Broker Toolkit.

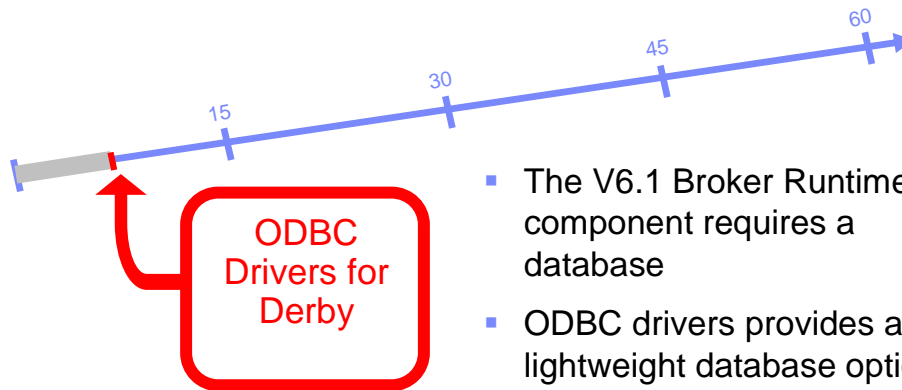
You could also choose an advanced installation.



The first part of the installation process prepares the Eclipse platform for WebSphere MQ, and the installation of WebSphere MQ itself, if required. The default install for the express option is a silent install, meaning that the Eclipse environment and WebSphere are merely installed. There is no interaction required as there is no configuration of WebSphere MQ performed at this point.

In the example shown, the time for this stage of the installation was approximately 6 minutes.

Installation timeline – ODBC drivers



- The V6.1 Broker Runtime component requires a database
- ODBC drivers provides a lightweight database option for development and unit test on Windows® platforms
- IBM DB2® Restricted Enterprise Server Edition V9.1 also included

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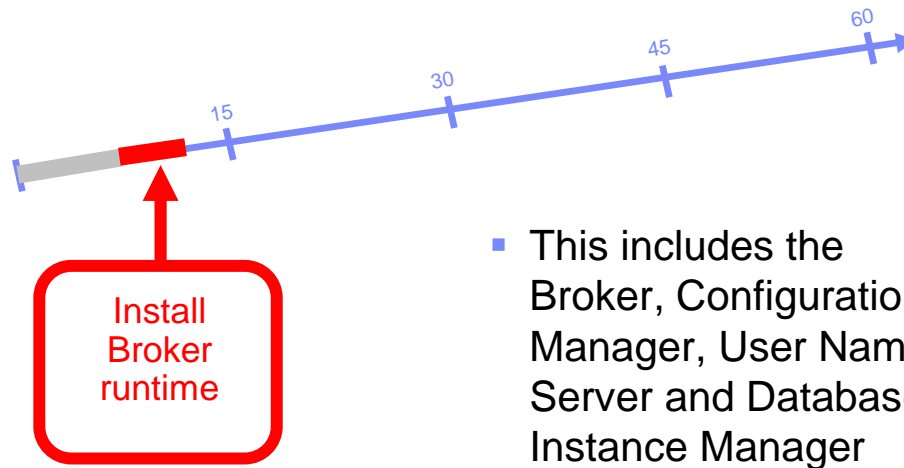
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The next stage of the installation was to install the ODBC drivers for the Derby database. Although the Configuration Manager no longer requires a repository database in Message Broker Version 6.1, the broker runtime environment still does. Included on the Windows platform, is a Derby database which allows for a lightweight option for development and testing purposes. This is only available on a Windows platform. However, also included is a restricted DB2 license, which can be used as an alternative to the Derby database on Windows and can be used for the broker runtime database on other platforms.

In the example shown, installation of the Derby drivers took around one minute.

Installation timeline



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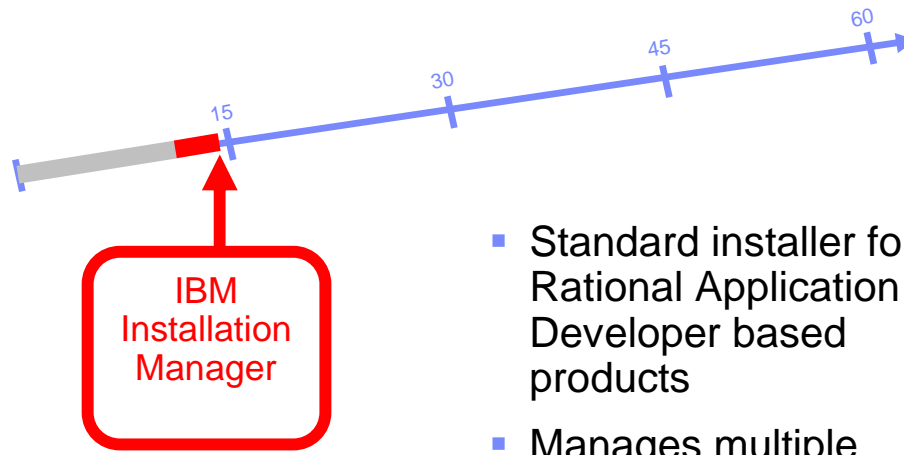
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The next step in the installation is to install the broker runtime components, namely the broker, Configuration Manager and the User Name Server (if required).

The database instance manager component is only installed on a Windows platform if the Derby database is being used. The Database Instance Manager is used for the management of the Derby database.

In this example, the database instance manager was also installed. The installation of the broker runtime components took about four minutes

Installation timeline – IBM Installation Manager



- Standard installer for Rational Application Developer based products
- Manages multiple Eclipse installations, and facilitates shell-sharing

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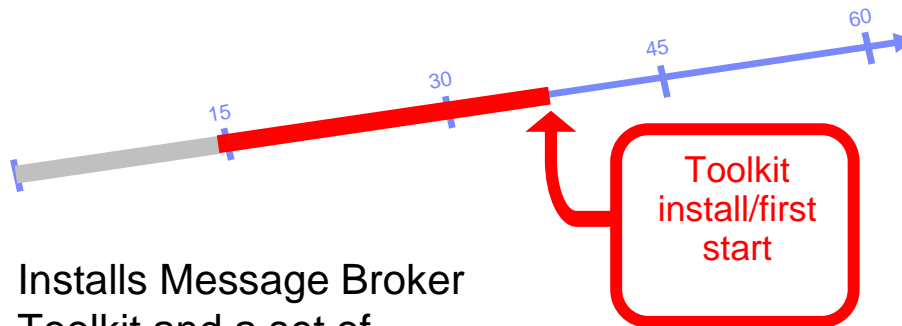
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The next component to be installed is the IBM Installation Manager. This is a new component for a Message Broker installation. The Installation Manager is the standard installer for all RAD (and therefore Eclipse) based products. Those who have experience with Version 6 or the product may have experienced problems with multiple Eclipse installations. The IBM Installation Manager manages multiple Eclipse installations and facilitates shell-sharing. Thus allowing multiple Eclipse installations to 'talk to each other'.

In this example, the time taken for this part of the installation was around 3 minutes, bringing the total elapsed time to about 15 minutes.

Installation timeline – Message Broker Toolkit



- Installs Message Broker Toolkit and a set of shared components (Software Development Platform)

Toolkit
install/first
start

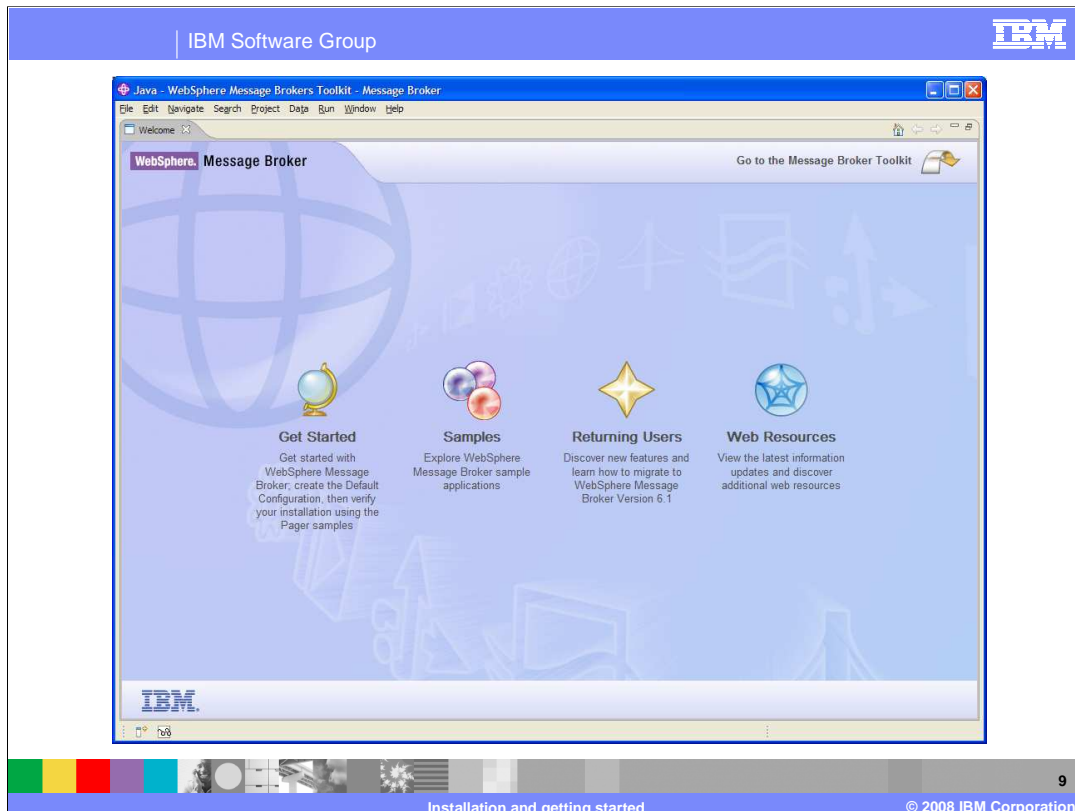
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The installation now moves on to the Message Broker Toolkit installation. The Message Broker Toolkit is installed into what is referred to as the IBM Software Development Platform. This is an Eclipse environment with a set of shared components. The Toolkit installation of Message Broker V6.1 is significantly faster than the equivalent function in Version 6.0. In this example, the toolkit installed in 25 minutes, which included the initialization of the Eclipse environment and the creation of an initial workspace.

In the test case, the total elapsed time is about 40 minutes.



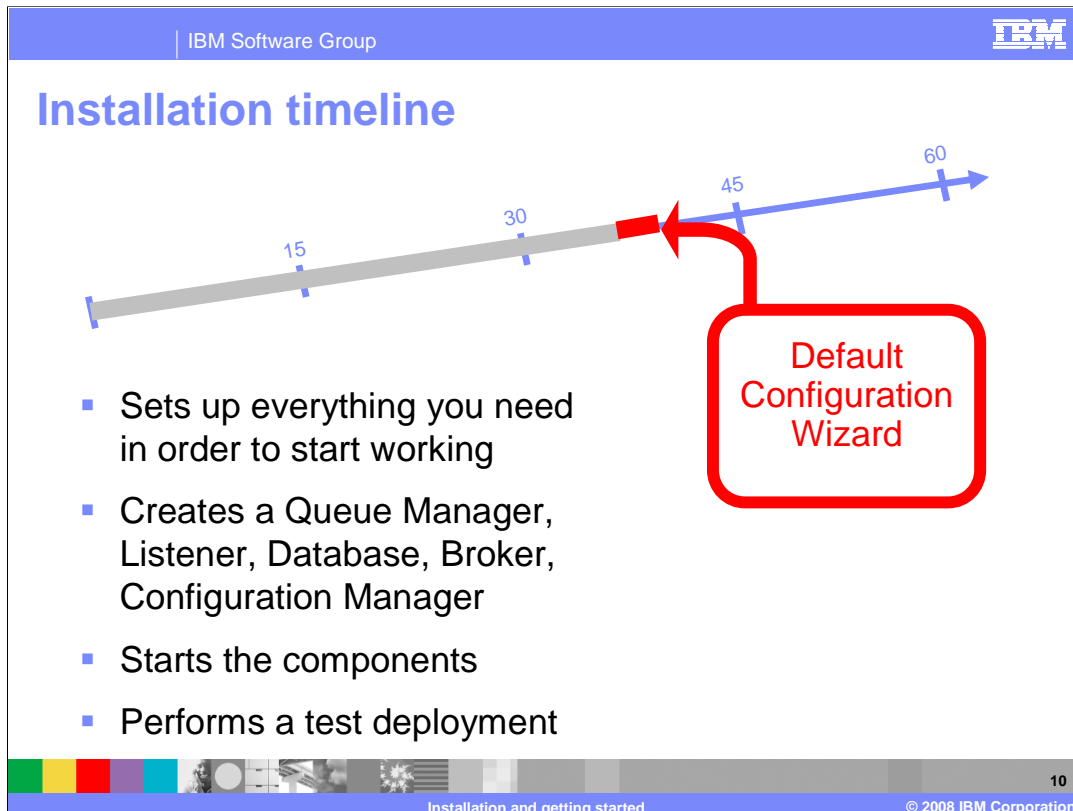
You are now able to start the toolkit for the first time. This is the initial welcome screen you will see. The screen has 4 buttons which link you to useful information and functions.

The Getting Started button will allow you to create the default configuration. The next few slides go into more detail.

The Samples button will take you to the Samples Gallery. The Samples Gallery contains many samples that can be installed into the default configuration with a single click and easily run to allow you to explore the different Message Broker Functions. All of the samples in the Gallery are categorized, this will be discussed in more detail in later slides.

The Returning Users button is designed for users that have previous Broker experience and would like to discover the latest product features. It is also for users who would like to learn how to migrate from their current Broker release to the latest version.

The Web resources will provide links to additional and external sources of information, such as IBM Redbooks, Support Packs and related material.



The next step is to create the default configuration. The Default Configuration Wizard will set up everything you need to have a basic environment in which to start working.

The components that are created by the Default Configuration wizard are a Broker domain, configuration manager, broker, queue manager, MQ listener and broker database. The MQ listener is configured to use the default port 2414, if it is available.

On Windows, the wizard defaults to whatever database manager is available. The database that has been used is recorded on the Default Configuration Summary page and the details of the database manager are also written to the wizard's log file.

On Windows, the Default Configuration wizard starts automatically at the end of the installation of WebSphere Message Broker. Also, you can launch the wizard manually from the Message Broker Toolkit Welcome page as seen on the previous slide.

Once the components have been created, the wizard starts each of the components and performs a test deployment.

For this example, the default configuration wizard took 4 minutes, bringing the elapsed time to 41 minutes.

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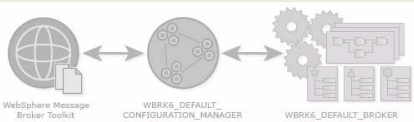
Default Configuration wizard

Default Configuration progress
The Default Configuration is being created.

Verifying that the default Configuration Manager [WBRK6_DEFAULT_CONFIGURATION_MANAGER] does not already exist.
The task succeeded

Verifying that the local domain connection file does not already exist.
The task succeeded

Creating the database [DEFBKD6] for the default broker.



WebSphere Message Broker Toolkit WBRK6_DEFAULT_CONFIGURATION_MANAGER WBRK6_DEFAULT_BROKER

Open Log File

Creating the database [DEFBKD6] for the default broker.

< Back Next > Finish Cancel

- Only input required: Windows password
- Use the Command Assistant wizard (or the command line) if you want to have finer control of object names

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When creating the default configuration using the wizard, the only input required is your Windows user password.

It is important to bear in mind that your user account must belong to the Administrators group. The user name that you enter in the Existing Account field in the wizard must be a local user name; the wizard does not accept domain user names.

The Default Configuration Summary page lists the resources that will be created. The information field in this page confirms whether Derby has been set as the default broker database on Windows. It also suggests an alternative option of installing and configuring an enterprise database server instead. The Default Configuration Progress page lists the background configuration actions as they occur, and indicates successful completion.

If you cancel the creation of the default configuration at any point, the wizard backs out all configuration tasks and displays the progress and success of the process.

If you need to change the defaults used by the wizard for the names of the objects that are to be created, a Command Assistant Wizard and a command line interface are available.

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Installation timeline

- Select and deploy one of the samples
- Many to choose from in the samples gallery
- Most samples take a similar amount of time to set up

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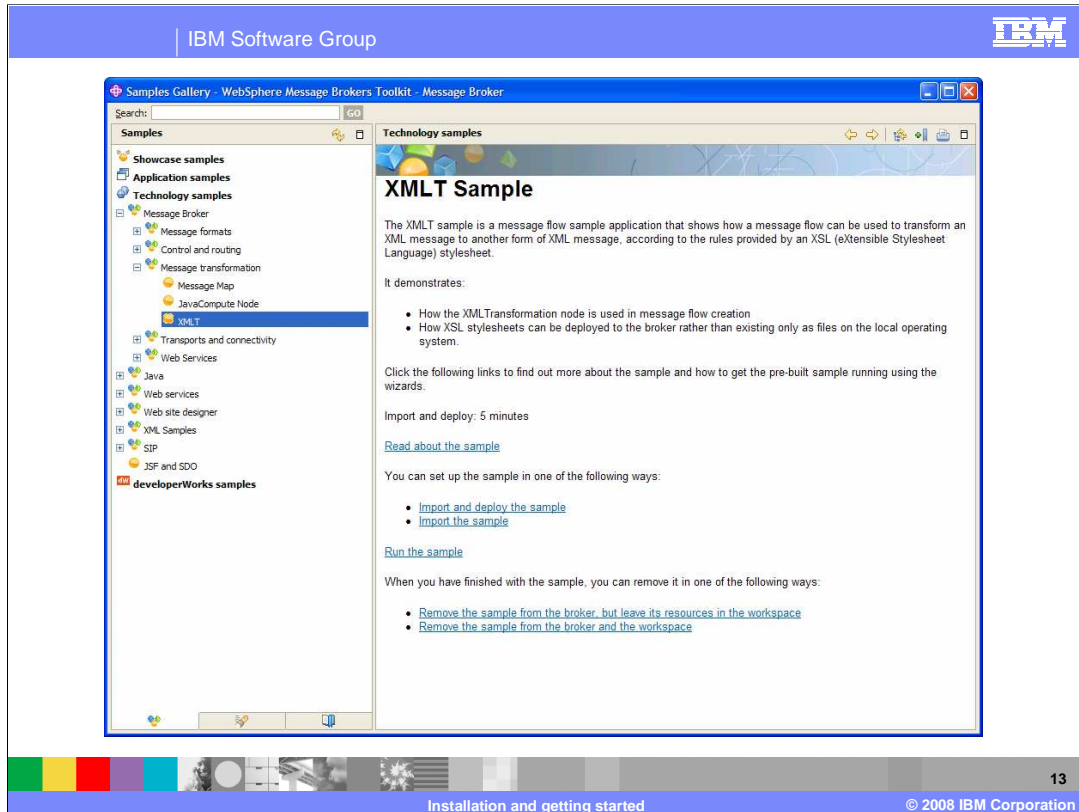
Now that the default configuration is up and running, you should select and deploy one of the many samples from the Samples Gallery.

There are many samples to choose from in the Gallery and they are categorized into Application and Technology samples. If you link to the Samples Gallery from the Welcome page, you will see these two categories and a Pager Sample and a Scribble sample. For this example, the Scribble sample was deployed to the default configuration.

Most of the samples take a similar amount of time to deploy to the default configuration and very few require any manual setup.

For this example, the deploy of the sample application took around 2 minutes.

So in the example shown, a working system was available in less than 1 hour. Note that this time is dependent on the available resources, and you may not achieve the same times in your environment.

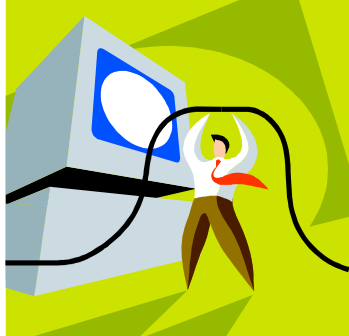


The Samples Gallery contains realistic, working scenarios to either get you started with the Message Broker or to assist in discovering the new functions. You get to the gallery by clicking on Help in the Message Broker Toolkit, then select “Samples Gallery”.

The Application samples are small end-to-end WebSphere Message Broker applications that were created using the Message Broker Toolkit. The Application samples demonstrate how to transform and route messages through message flows.

The Technology samples are small WebSphere Message Broker applications that were created using the Message Broker Toolkit. Each Technology sample demonstrates a specific feature of WebSphere Message Broker; for example, how to use particular message flow nodes, or how to use industry standard message sets.

Non-Windows platforms



- Install process on other platforms relatively unchanged since V6
 - ▶ ISMP installer for all platforms, SMP/E for z/OS®
 - ▶ Co-exist multiple versions on all platforms
 - ▶ DVD also available on Linux® (includes Toolkit)
 - ▶ Simplified installation and customization on z/OS

As you can see from the preceding slides, the end to end installation process has been both simplified for the Windows environment.

For the non-Windows platforms the installation processes remains relatively unchanged from Version 6.0 For all platforms except z/OS, which uses SMP/E, the installer is InstallShield MultiPlatform (**ISMP**).

In Version 6.1 it is possible to have multiple versions of the Message Broker co-existing on the same system. This is discussed in more detail in other units.

A DVD install is available for Linux, which includes the Message Broker Toolkit.

The installation and customization of the broker components for z/OS has been simplified.

Summary

- Get going in less than an hour
- No complicated setup instructions
 - ▶ The Launch pad tells you what you need and will guide you through the complete installation
 - ▶ The one piece of information you need to enter is your Windows password
- Comprehensive samples cover most areas of the product

So as shown in the timeline of the sample installation in this presentation, you can install WebSphere Message Broker and be ready to start working with a default configuration on a Windows system in about one hour. This includes the deployment of several sample applications. There are no complicated setup instructions; the Launch-pad will tell you what you need and will guide you through each step of the installation and default configuration creation.

The only piece of information that you need to provide is your Windows password.

After the installation has completed and the default configuration is running, the Samples Gallery will provide you with a comprehensive set of realistic samples so you can explore more areas of the product.

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