

TIBCO iProcess™ Objects (Java)

Installation

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Preface

TIBCO iProcess™ Objects (Java) comprise a set of objects that are used to build applications that automate business processes. These objects are based on Java bindings that wrap C++ classes. You can use any Java development tool to access the TIBCO iProcess Objects via the Java classes. The TIBCO iProcess Objects are available for Windows platforms, as well as four versions of UNIX: AIX, Solaris, HP-UX, and Linux.

This guide provides instructions on installing, upgrading, or removing the TIBCO iProcess Objects (Java) from your Windows or UNIX system.

Topics

- *Related Documentation, page vi*
- *How to Contact TIBCO Customer Support, page vii*

Related Documentation

This section lists documentation resources you may find useful.

- *TIBCO iProcess Objects Programmer's Guide* - This guide, which is provided on the distribution CD, provides explanatory text about developing client applications using TIBCO iProcess Objects. It includes subjects such as TIBCO iProcess Objects architecture, managing work items, managing cases, filtering work items and cases, etc.
- *TIBCO iProcess Objects Release Notes* - These notes, which are provided with each release of the TIBCO iProcess Objects, describe enhancements and/or fixes that are implemented in each release, as well as any known issues that apply to that release of the software.
- *TIBCO iProcess Objects On-Line Help* - The on-line help system, which is installed as part of the software installation, provides descriptions and syntax for the objects and methods available to the client application programmer. The on-line help is available in the following location after the installation is complete:

Windows Systems:

InstallDir\SPOJavaHelp\start.htm

UNIX Systems:

InstallDir/SPOJavaHelp/start.htm

where *InstallDir* is the directory where you installed the TIBCO iProcess Objects. The default directory is **C:\Program Files\Staffware\Staffware EntObj Java** on Windows and **/usr/sweojni** on UNIX.

The **start.htm** file is used to start the html-based on-line help system using a browser (e.g., Internet Explorer or Netscape).

- *TIBCO iProcess Objects (Java) Object Model Graphic* - This provides a graphical representation of the object hierarchy of the TIBCO iProcess Objects (Java). This is provided on the distribution CD.

How to Contact TIBCO Customer Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Product Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<http://support.tibco.com>

Entry to this site requires a username and password. If you do not have a username, you can request one.

Chapter 1 **Installing/Upgrading on Windows Systems**

This chapter explains how to install or upgrade TIBCO iProcess Objects (Java) on Windows systems.

Topics

- *System Requirements, page 2*
- *Installation / Upgrade Procedure, page 3*

System Requirements

Before starting the installation procedure, review the following subsections to determine that your system meets the system requirements.

Operating Systems

TIBCO iProcess Objects (Java) can be installed on a system running one of the following Microsoft Windows operating systems:

| Operating System |
|---|
| Microsoft Windows Server 2003, SP2 (32 bit) |
| Microsoft Windows Server 2008 (64 bit) (must be run in 32-bit mode) |
| Microsoft Windows Vista |
| Microsoft Windows XP Professional |
| Microsoft Windows 2000 Professional, Server, or Advanced Server, SP 4 or newer |



Microsoft has discontinued standard support for Windows 2000 and Windows XP. (Extended support is still available, but must be purchased from Microsoft.)

TIBCO will continue to support the TIBCO iProcess Objects (Java) client application on Windows 2000 and Windows XP. However, if a problem with the TIBCO iProcess Objects (Java) is reported to TIBCO Support, and the problem is traced to the Windows 2000 or Windows XP operating system, TIBCO Support will be unable to assist further with the resolution of that problem.

TIBCO therefore recommends that you use Windows Vista, Server 2003, or Server 2008 instead of Windows 2000 or Windows XP on any system that runs the TIBCO iProcess Objects (Java).

Java Development Kit / Virtual Machine

You must also be using the following JDK/Virtual Machine in your development environment:

- Java Development Kit (JDK) 1.5 or later
- Virtual Machine (VM) included with the JDK 1.5 or later

Installation / Upgrade Procedure

To install/upgrade the TIBCO iProcess Objects (Java) on your computer:

1. Run the TIBCO iProcess Objects (Java) **Setup** program. If you are installing/upgrading from:
 - **CD-ROM**: Run **Setup** from the root directory.
 - **a network server**: Ask your network administrator for the location of **Setup** and run it from there.
2. Review the information in the **Welcome** dialog and click **Next**. The **TIBCO End User License Agreement** is displayed.
3. Read the license agreement.
 - If you **do not agree** with the terms of the license agreement, click **No** to exit the setup program.
 - If you **agree** with the terms of the license agreement, click **Yes** to continue with the installation.

The **Choose Destination Location** dialog is displayed.

4. Specify the **Destination Folder** where you want to install/upgrade the TIBCO iProcess Objects (Java) files. The destination folder defaults to:

`C:\Program Files\Staffware\Staffware EntObjJava`

The **Select Components** dialog is displayed.

- If a CLASSPATH environment variable does not currently exist on your system, the **Select Components** dialog will contain a check box that allows you to specify that the variable should be created. If you check the box to create the variable, the installation directory is written to the variable.
 - If a CLASSPATH environment variable already exists on your system, but you have specified an installation directory that does not yet exist in the variable, the **Select Components** dialog will contain a check box that allows you to specify that the variable should be updated with the new installation directory.
 - If a CLASSPATH environment variable already exists on your system, and you have specified an installation directory that already exists in the variable, the **Select Components** dialog will not contain a check box about creating or updating the variable.
5. If the check box concerning the CLASSPATH environment variable is displayed, check or uncheck it as appropriate, then click **Next**.

Setup copies the appropriate files to your system — see [Installed Files / Directories on page 4](#).

When **Setup** completes copying files, the **Setup Complete** dialog is displayed.

If you had checked the box on the **Select Components** dialog to either create or modify the CLASSPATH environment variable, this dialog will inform you that your system needs to be rebooted to activate the CLASSPATH variable with your new installation directory. It will contain radio buttons allowing you to specify whether your machine should be restarted now.

6. If the **Setup Complete** dialog contains the restart radio buttons, select one as appropriate.
7. Click **Finish** to complete the installation/upgrade.

Installed Files / Directories

The following files and directories are installed in the TIBCO iProcess Objects (Java) installation directory:

| File/Directory | Description |
|----------------|--|
| SWEOJNI.dll | Provides the TIBCO iProcess Objects (Java) functionality. |
| SWEntObj | This directory contains source and class files — <i>the source files should not be re-distributed</i> . The class files provide a Java wrapper to the functionality provided by the SWEOJNI.dll file. |
| icudt36.dll | Data table used for Unicode support. |
| icuuc36.dll | Unicode converter used to convert from Unicode to other character sets. |
| SPOJavaHelp | This directory contains the HTML-based help system. Execute the start.htm file to start. |
| license65.txt | The TIBCO Software End User License Agreement. |

Note - Previous installations of the TIBCO iProcess Objects (Java) installed DLL files in the C:\windows directory. They are now installed in the TIBCO iProcess Objects (Java) installation directory. The installer will look for TIBCO iProcess Objects (Java) DLL files in the C:\windows directory — if it finds any, it will delete them.

Chapter 2 **Installing/Upgrading on UNIX Systems**

This chapter explains how to install or upgrade TIBCO iProcess Objects (Java) on UNIX systems

Topics

- *System Requirements, page 6*
- *Preparing to Install, page 7*
- *Installation / Upgrade Procedure, page 8*

System Requirements

Operating Systems

To install the TIBCO iProcess Objects (Java), you need a computer that meets the following system requirements:

| Hardware Platform | Operating System |
|-------------------|---|
| IBM RS/6000 | AIX 5L |
| HP 9000 700/800 | HP-UX PA-RISC 11i r2 |
| Sun SPARC | Solaris 8-10 |
| Intel Pentium x86 | - Red Hat Linux AS/ES 4.x - SUSE Linux Enterprise Server 10 (32-bit) |

Preparing to Install

Extracting the Installation Set from the Product CD

1. Log in as **root**.
2. **cd** to the **/tmp** directory.
3. Mount the product CD.
4. Use the **tar** command to extract the installation set from the **spojava.tar** file on the product CD into the installation directory:

```
tar xvf mount_point/spojava.tar
```

where *mount_point* is the location at which your CD-ROM is mounted.

The installation set is copied into the **/tmp/spojavainstall** directory. After you have completed the installation, the installation set is automatically removed from this directory. However, the **/tmp/spojavainstall** directory is not automatically removed. It must be removed manually.

5. Un-mount the product CD.

Installation / Upgrade Procedure

To install or upgrade the TIBCO iProcess Objects (Java):

1. Log in as **root**.
2. **cd** to the **/tmp/spojavainstall** directory.
3. Run the **spojinstall** installation script using the command:

```
# ./spojinstall
```

The **TIBCO End User License Agreement** is displayed.

4. Read the license agreement. You can:
 - a. Press **Enter** to step through the license agreement one line at a time.
 - b. Press the **space bar** to step through the license agreement one page at a time.

After reading through the entire agreement, the following prompt is displayed:

```
Do you agree to the above license terms? [yes or no]
```

5. You can respond to this prompt in one of the following ways:
 - If you do **not agree** to the terms of the license agreement, type **n**, then press **Enter**. This causes the installation script to exit.
 - If you **agree** to the terms of the license agreement, type **y**, then press **Enter**. The installation script continues. It displays the version and copyright details, then checks to see if a previous installation exists in **/usr/sweojni**.
6. Respond accordingly to the prompt, depending on whether or not the installation script found a previous installation:
 - **If an existing installation is found in /usr/sweojni**, you are prompted to either upgrade and overwrite these files or choose a different directory in which to install a new version.

Enter **Y** to confirm the upgrade to the default directory or enter **N** to install the files to a new directory. If you enter **N**, you are prompted to enter a new installation directory (*InstallDir*).

The **spojinstall** script then prompts you to confirm that the installation directory is correct before installing the TIBCO iProcess Objects (Java) files.

- **If no previous installation exists in /usr/sweojni**, you are prompted that this is a new installation. You can choose to install the TIBCO iProcess Objects (Java) files into the default directory (**/usr/sweojni**) or you can choose your own directory.

Enter **Y** to accept the default directory or **N** to specify your own installation directory. If you enter **N**, you are prompted to enter a new installation directory (*InstallDir*).

The **spojinstall** script then prompts you to confirm that the installation directory is correct before installing the TIBCO iProcess Objects (Java) files.



Before the **spojinstall** script copies TIBCO iProcess Objects (Java) files to the installation directory, it first deletes ALL files and sub-directories from the installation directory. If there are any files and/or sub-directories in the installation directory that you want to retain, save them in another location before performing the final step in the installation process.

7. Enter **Y** to confirm the installation directory is correct. If you enter **N**, you are prompted to enter a new installation directory (*InstallDir*).



All the **.java** and **.class** files are installed into a sub-directory called **SWEntObj**, which is the package name. This directory cannot be changed or the classes will become inaccessible.

The **spojinstall** installation script then:

- Copies the TIBCO iProcess Objects (Java) files to the indicated directory.
- Changes the ownership of all TIBCO iProcess Objects (Java) directories and files to **root**, and sets the appropriate file and directory permissions.
- Deletes the installation script.
- Reminds you to check that the applicable environment variable (operating system specific) includes the installation directory. The applicable environment variables for the supported operating systems are listed below:

AIX: LIBPATH

HP-UX: SHLIB_PATH

Solaris: LD_LIBRARY_PATH

Linux: LD_LIBRARY_PATH

When the script has finished, TIBCO iProcess Objects (Java) is installed.

Chapter 3 **Removing the TIBCO iProcess Objects**

This chapter explains how to remove the TIBCO iProcess Objects (Java) from Windows and UNIX systems.

Topics

- *Removing from Windows Systems, page 12*
- *Removing from UNIX Systems, page 13*

Removing from Windows Systems

To remove the TIBCO iProcess Objects (Java) from a Windows system:

1. From **Control Panel**, choose **Add/Remove Programs**.
2. From the list of currently installed programs, select **TIBCO iProcess Objects (Java)**, then click **Change/Remove**.
3. Confirm that you want to remove the program.

Removing from UNIX Systems

To remove the TIBCO iProcess Objects (Java) from a UNIX system:

1. Log in as **root**.



Performing the following step will cause ALL files and subdirectories in your TIBCO iProcess Objects installation directory to be removed. If you have files and/or subdirectories in the installation directory that you would like to save, they must be copied to another location before performing the following step.

2. Enter the following command to remove TIBCO iProcess Objects (Java) files and directories.

```
# rm -r /InstallDir
```

where *InstallDir* is the name of the directory in which TIBCO iProcess Objects (Java) was installed.

