

Installing the TIBCO® Staffware Process Objects (SPO) C++ Client

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Chapter 1 Introduction

This guide explains how to install, upgrade or remove the **TIBCO Staffware Process Objects (SPO) C++ Client**.

Note - Prior to Version 9.x, this product was called the Staffware Enterprise Objects (SEO) C++ Client. You may still see references to SEO within the software and in some technical documentation.

How to Use This Guide

If you want to:

- *install a new, or upgrade an existing, TIBCO SPO C++ Client on Windows*, follow the instructions in [Chapter 2 on page 3](#).
- *install a new, or upgrade an existing, TIBCO SPO C++ Client on UNIX*, follow the instructions in [Chapter 3 on page 5](#).
- *remove an existing TIBCO SPO C++ Client*, follow the instructions in [Chapter 4 on page 9](#).

The Readme File

Before you install or upgrade the TIBCO SPO C++ Client you should read the **Readme** file supplied with the software. The **Readme** file contains the following information:

- any new features that are available.
- any restrictions or known issues that apply.
- any fixes that have been made.

If you are installing from a CD-ROM, you can find the TIBCO SPO C++ Client **Readme.pdf** file in the `\docs` directory (Windows) or `/docs` directory (UNIX) on the distribution CD.

If you are installing from a network server, ask your network administrator where the **Readme** file is stored.

TIBCO SPO C++ Client On-line Help

On-line help for the TIBCO SPO C++ Client is available in the following location after the installation is complete:

Windows Systems:

```
InstallDir\Help\start.htm
```

UNIX Systems:

```
InstallDir/SPOCPPHelp/start.htm
```

where *InstallDir* is the directory where you installed the TIBCO SPO C++ Client. The default directory is `C:\Program Files\Staffware\Staffware EntObj C++` on Windows and `/usr/sweocpp` 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 SPO Programmer's Guide

This guide, which is provided on the distribution CD, provides explanatory text about developing client applications using TIBCO Staffware Process Objects (SPO) clients. It includes subjects such as SPO architecture, managing work items, managing cases, filtering work items and cases, etc.

TIBCO SPO C++ Client Object Model Graphic

This provides a graphical representation of the TIBCO SPO C++ Client object hierarchy. This is provided on the distribution CD.

Chapter 2 Installing/Upgrading on Windows

This chapter describes how to install or upgrade a TIBCO SPO C++ Client on Windows systems.

System Requirements

To install the TIBCO SPO C++ Client, you need a computer with an Intel-compatible processor and the following hardware and software:

- One of the following Microsoft Windows operating systems:
 - Windows 98
 - Windows ME
 - Windows NT 4.0 (Workstation or Server, with Service Pack 5 or later)
 - Windows 2000 (Professional, Server, or Advanced Server)
 - Windows XP (Professional)
 - Windows Server 2003 (Standard Edition — 32-bit version)

See the Microsoft Windows documentation for information about system requirements for each of these operating systems.

Note - You are strongly discouraged from using Microsoft .NET with the TIBCO SPO C++ Client (our BPM offering for use with .NET is the "TIBCO SSO for .NET" product).

- At least 32 MB of RAM.
- At least 12 MB of free space on the hard disk.

A TIBCO SPO Server and TIBCO Staffware Process/iProcess Engine must also be installed before the TIBCO SPO C++ Client can be used. They do not need to be installed prior to installing the TIBCO SPO C++ Client.

Installation/Upgrade Procedure

To install/upgrade the TIBCO SPO C++ Client on your computer:

1. Run the TIBCO SPO C++ Client **Setup** program. If you're 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** dialog is displayed.
3. Review the information in the licence agreement.

If you do not accept the agreement, click **No** to abort the installation.

If you accept the agreement, click **Yes** to continue.

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

4. Specify the **Destination Folder** where you want to install/upgrade the TIBCO SPO C++ Client files. The destination folder defaults to:

C:\Program Files\Staffware\Staffware EntObj C++

5. Click **Next** to continue with the installation.

The **Setup** program copies all of the necessary files to the destination folder you specified. When it's finished, the **Setup Complete** dialog is displayed.

6. Click **Finish** to complete the installation/upgrade.

Chapter 3 Installing/Upgrading on UNIX

This chapter explains how to install or upgrade the TIBCO SPO C++ Client on UNIX.

System Requirements

To install the TIBCO SPO C++ Client, your computer must meet the following system requirements:

Hardware Platform	Operating System	Disk Space	
		Install	Runtime
IBM RS/6000	AIX 4.3, 5.1	126 MB	42 MB
HP 9000	HP-UX 11/11i	54 MB	18 MB
Sun SPARC	Solaris 7 - 9	36 MB	12 MB

A TIBCO SPO Server and TIBCO Staffware Process/iProcess Engine must also be installed before the TIBCO SPO C++ Client can be used. They do not need to be installed prior to installing the TIBCO SPO C++ Client.

Extracting the Installation Set from the Product CD

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

```
tar xvf mount_point/spocpp.tar
```

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

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

4. Un-mount the product CD.

Installation/Upgrade Procedure

To install or upgrade the TIBCO SPO C++ Client:

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

```
# ./spocppinstall
```

*Note - You can enter **spocppinstall -v** if you just want to display the version number of the installation script.*

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

4. Read the license agreement. You can:
 - i. Press **Enter** to step through the license agreement one line at a time.
 - ii. 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. 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 and performs the following tasks:

- displays the version and copyright details.
- checks to see if a previous installation exists in **/usr/sweocpp**.

Note - If desired, the installation process can be aborted at any time by pressing <Ctrl> C.

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/sweocpp, you are prompted to either upgrade and overwrite these files or choose a different directory in which to install a new version.

- i. 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.

spocppinstall then prompts you to confirm that the installation directory is correct before installing the TIBCO SPO C++ Client files.

If no previous installation exists in /usr/sweocpp, you are prompted that this is a new installation. You can choose to install the TIBCO SPO C++ Client files into the default directory (**/usr/sweocpp**) or you can choose your own directory.

- i. Enter **Y** to accept the default directory or **N** if you want to specify your own installation directory. If you enter **N**, you are prompted to enter a new installation directory.

spocppinstall then prompts you to confirm that the installation directory is correct before installing the TIBCO SPO C++ Client files.

*Important - Before the **spocppinstall** script copies the TIBCO SPO C++ Client 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.

*Note - All the **.h** files are installed into a sub-directory called **include**. This is a default directory and cannot be changed. For example, if you choose to install in the default installation directory, the **.h** files are copied to **/usr/sweocpp/include**.*

The **spocppinstall** installation script then:

- Copies the TIBCO SPO C++ Client files to the indicated directory.
- Changes the ownership of all TIBCO SPO C++ Client directories and files to **root**.
- Deletes the installation script.
- Reminds you to check that the applicable environment variable (operating system specific) includes the installation directory:

```
AIX - LIBPATH
HP-UX - SHLIB_PATH
Solaris - LD_LIBRARY_PATH
```

When the script has finished, the TIBCO SPO C++ Client is installed.

Chapter 4 Removing the TIBCO SPO C++ Client

This chapter describes how to remove the TIBCO SPO C++ Client from Windows and UNIX systems.

Removing from Windows Systems

1. From **Control Panel**, choose **Add/Remove Programs**.
2. If you are using Windows 98, ME, or NT:
 - On the **Install/Uninstall** tab, select **TIBCO Staffware Process Objects - C++ Client**, then click **Add/Remove**.

If you are using Windows 2000, XP, or 2003:

- From the list of currently installed programs, select **TIBCO Staffware Process Objects - C++ Client**, then click **Change/Remove**.
3. Confirm that you want to remove the program.

Removing from UNIX Systems

1. Log in as **root**.

Note - Performing the following step will cause ALL files and subdirectories in your TIBCO SPO C++ Client 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 steps.

2. Enter the following command to remove all of the TIBCO SPO C++ Client files and directories:

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

where *InstallDir* is the name of the directory where you installed the TIBCO SPO C++ Client.

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General. Fees on the Ordering Document (all to be paid on the latter of thirty days from Invoice by TIBCO or the date set forth in the Ordering Document) do not include sales, use, withholding, value-added or similar taxes, and Customer agrees to pay the same, excluding therefrom taxes related to TIBCO's income and corporate franchise tax. Customer agree to pay all reasonable costs incurred (including reasonable attorneys' fees) in collecting past due amounts under this Agreement. Except as set forth in the

Section entitled Limited "Warranty" all fees paid under or in connection with this Agreement are non-refundable and no right of set-off exists. All payments of fees due shall be made in U.S. dollars, net 30 from Purchase Date, or, for any other amounts coming due hereafter, net 30 from TIBCO's invoice. A service charge of one and one-half percent per month will be applied to all invoices that are not paid on time. Licensee agrees to pay all sales, use, value-added, withholding, excise and any other similar taxes or government charges, exclusive of TIBCO's income taxes. No delay in the performance of any obligation by either party, excepting all obligations to make payment, shall constitute a breach of this Agreement to the extent caused by force majeure. Customer hereby grants TIBCO and its independent auditors the right to audit Customer's compliance with this Agreement. If any portion of this Agreement is found to be void or unenforceable, the remaining provisions shall remain in full force and effect. This Agreement shall be governed by and construed in accordance with the laws of the State of California, United States of America, as if performed wholly within the state and without giving effect to the principles of conflict of law. The state and/or federal courts in San Francisco, California, shall have exclusive jurisdiction of any action arising out of or relating to this Agreement. The United Nations Convention on Contracts for the International Sale of Goods is excluded from application hereto. If any portion hereof is found to be void or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect.

Definitions. In connection with this Agreement, the following capitalized terms shall have the following meaning: "Agreement" means this End User License Agreement; "Case Start" means the initiation of a single instance of a defined business process; "Connection" for the following TIBCO Software products shall mean: for TIBCO Enterprise Message Service, a TIBCO Enterprise Message Service client connection to the TIBCO Enterprise Message Service server for the purpose of sending or receiving messages, for TIBCO SmartSockets and TIBCO SmartMQ, any network protocol link established with such TIBCO Software (directly or indirectly) to any other entity, including but not limited to software, firmware or hardware, for TIBCO Enterprise RTView - Standard Monitor System, the number of monitored server instances to TIBCO Rendezvous daemons or TIBCO Hawk agents; for TIBCO Enterprise RTView- EMS Monitor System, a monitored TIBCO Enterprise Message Service Connection (as defined above for that product); for TIBCO General Interface, an electronic data interface to a CPU on a server (which excludes CPUs on devices such as routers, switches, proxies, or HTTP or application servers configured to substantially pass-through information or messages to TIBCO General Interface) that produces information or messages consumed by TIBCO General Interface; "Customer" means the original purchaser or licensee of the Software and any permitted successors and assigns; "Developer" means one user/developer of a TIBCO Software product for use in Development; "Development" means used for software development purposes only; "Enterprise" means an unlimited number of Permitted Instances for a period of one year from the Purchase Date (unless otherwise set forth in the Ordering Document), at

which time existing licenses convert to perpetual and Customer may not thereafter deploy additional Permitted Instances, and in any event, shall (during the one-year unlimited deployment period) exclude any entity which acquires, is acquired by, merged into, or otherwise combined with Customer. Customer hereby agrees to provide TIBCO with notice of the number of Permitted Instances deployed at the end of such one-year period within thirty days thereafter; "Fab" means unlimited use for shop-floor manufacturing applications at a Site; "Workstation" shall mean a single end-user computer that is generally intended to be accessed by one person at a time; "Ordering Document" means any purchase order or similar document or agreement requesting Software, Support or Services; "Permitted Instance(s)" means the number of copies of Software running on a Server Instance, Workstation, User, or Development basis, on a designated Platform, as set forth in an Ordering Document, including, without limitation, Enterprise, Site and Fab licensing; "Platform" means the operating system set forth in an Ordering Document; "Purchase Date" means the date of the Ordering Document is accepted by TIBCO; "Server Instance" means a computer with 1 CPU (unless otherwise set forth in the Ordering Document) performing common services for multiple machines; "Site" means an unlimited number of Permitted Instances at a specific physical address set forth in the Ordering Document (or, in the absence of any address, at Customer's corporate headquarters); "Software" means the software products listed in an Ordering Document (except as provided in the second paragraph hereof), in whole and in part, along with their associated documentation; "TIBCO" means TIBCO Software Inc.; and "Named User" means the number of named users with access to the Software.

Special Product Provisions. TIBCO BusinessPartner: Customer may sublicense to third parties ("Partners") up to the total Number of Copies of TIBCO BusinessPartner, provided that for every such sublicense, the Number of Copies Customer is licensed to use shall be reduced by the same number, and provided further that prior to delivery of TIBCO BusinessPartner to a Partner, such Partner agrees in writing (a) to be bound by terms and conditions at least as protective of TIBCO as the terms of this Agreement, (b) that TIBCO BusinessPartner be used solely to communicate with Customer's implementation of TIBCO BusinessConnect, and (c) for such Partner to direct all technical support and Maintenance questions directly to Customer. Customer agrees to keep records of the Partners to which it distributes TIBCO BusinessPartner, and to provide TIBCO the names thereof (with an address and contact name) within sixty days of the end of each quarter. Third Party Software: Use of any other third-party software identified by its company and/or product name or otherwise designated in Licensee's Ordering Document (collectively "Third Party Software") is subject solely to the terms and conditions of the click-wrap or shrink-wrap license agreement included with the Third Party Software products, and for which TIBCO shall be an intended third-party beneficiary of same. TIBCO shall have no obligation whatsoever in connection with the Third Party Software (including, without limitation, any obligation to provide maintenance or support) and the provision of Third Party

Software is accomplished solely as an accommodation and in lieu of Customer purchasing a license to Third Party Software directly from the third party vendor. Embedded/ Bundled Products. Some TIBCO Software embeds or bundles other TIBCO Software (e.g., TIBCO InConcert bundles TIBCO Rendezvous). Use of such embedded or bundled TIBCO Software is solely to enable the functionality of the TIBCO Software licensed on the Cover Page, and may not be used or accessed by any other TIBCO Software, or for any other purpose. Open Source Software: If Licensee uses Open Source software in conjunction with the TIBCO Software, Licensee must ensure that its use does not: (i) create, or purport to create, obligations of use with respect to the TIBCO Software; or (ii) grant, or purport to grant, to any third party any rights to or immunities under TIBCO's intellectual property or proprietary rights in the TIBCO Software. You also may not combine the TIBCO Software with programs licensed under the GNU General Public License ("GPL") in any manner that could cause, or could be interpreted or asserted to cause, the TIBCO Software or any modifications thereto to become subject to the terms of the GPL.

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Third Party Software Notices

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