

# **TIBCO iProcess<sup>®</sup> Server Objects (.NET)**

## **Installation**

*Software Release 11.4.1  
April 2014*

## Important Information

SOME TIBCO SOFTWARE EMBEDS OR BUNDLES OTHER TIBCO SOFTWARE. USE OF SUCH EMBEDDED OR BUNDLED TIBCO SOFTWARE IS SOLELY TO ENABLE THE FUNCTIONALITY (OR PROVIDE LIMITED ADD-ON FUNCTIONALITY) OF THE LICENSED TIBCO SOFTWARE. THE EMBEDDED OR BUNDLED SOFTWARE IS NOT LICENSED TO BE USED OR ACCESSED BY ANY OTHER TIBCO SOFTWARE OR FOR ANY OTHER PURPOSE.

USE OF TIBCO SOFTWARE AND THIS DOCUMENT IS SUBJECT TO THE TERMS AND CONDITIONS OF A LICENSE AGREEMENT FOUND IN EITHER A SEPARATELY EXECUTED SOFTWARE LICENSE AGREEMENT, OR, IF THERE IS NO SUCH SEPARATE AGREEMENT, THE CLICKWRAP END USER LICENSE AGREEMENT WHICH IS DISPLAYED DURING DOWNLOAD OR INSTALLATION OF THE SOFTWARE (AND WHICH IS DUPLICATED IN THE LICENSE FILE) OR IF THERE IS NO SUCH SOFTWARE LICENSE AGREEMENT OR CLICKWRAP END USER LICENSE AGREEMENT, THE LICENSE(S) LOCATED IN THE "LICENSE" FILE(S) OF THE SOFTWARE. USE OF THIS DOCUMENT IS SUBJECT TO THOSE TERMS AND CONDITIONS, AND YOUR USE HEREOF SHALL CONSTITUTE ACCEPTANCE OF AND AN AGREEMENT TO BE BOUND BY THE SAME.

This document contains confidential information that is subject to U.S. and international copyright laws and treaties. No part of this document may be reproduced in any form without the written authorization of TIBCO Software Inc.

TIBCO, TIBCO iProcess, and Two-Second Advantage are either registered trademarks or trademarks of TIBCO Software Inc. in the United States and/or other countries.

All other product and company names and marks mentioned in this document are the property of their respective owners and are mentioned for identification purposes only.

THIS SOFTWARE MAY BE AVAILABLE ON MULTIPLE OPERATING SYSTEMS. HOWEVER, NOT ALL OPERATING SYSTEM PLATFORMS FOR A SPECIFIC SOFTWARE VERSION ARE RELEASED AT THE SAME TIME. SEE THE README FILE FOR THE AVAILABILITY OF THIS SOFTWARE VERSION ON A SPECIFIC OPERATING SYSTEM PLATFORM.

THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

THIS DOCUMENT COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE PERIODICALLY ADDED TO THE INFORMATION HEREIN; THESE CHANGES WILL BE INCORPORATED IN NEW EDITIONS OF THIS DOCUMENT. TIBCO SOFTWARE INC. MAY MAKE IMPROVEMENTS AND/OR CHANGES IN THE PRODUCT(S) AND/OR THE PROGRAM(S) DESCRIBED IN THIS DOCUMENT AT ANY TIME.

THE CONTENTS OF THIS DOCUMENT MAY BE MODIFIED AND/OR QUALIFIED, DIRECTLY OR INDIRECTLY, BY OTHER DOCUMENTATION WHICH ACCOMPANIES THIS SOFTWARE, INCLUDING BUT NOT LIMITED TO ANY RELEASE NOTES AND "READ ME" FILES.

Copyright © 2004-2014 TIBCO Software Inc. ALL RIGHTS RESERVED.

TIBCO Software Inc. Confidential Information

# Contents

<b>Preface</b> .....	<b>v</b>
Related Documentation .....	vi
Connecting with TIBCO Resources .....	vii
How to Join TIBCOCommunity .....	vii
How to Access TIBCO Documentation .....	vii
How to Contact TIBCO Support .....	vii
<b>Chapter 1 Installing/Upgrading TIBCO iProcess Server Objects (.NET)</b> .....	<b>1</b>
System Requirements .....	2
Microsoft .NET Framework .....	2
Microsoft Visual C++ 2008 Redistributable Package .....	3
Installing Managed Code in GAC .....	3
Installation Procedure .....	4
Installed Files .....	5
<b>Chapter 2 Repairing/Removing TIBCO iProcess Server Objects (.NET)</b> .....	<b>7</b>
Introduction .....	8
Repairing/Removing Using the Setup Program .....	9
Removing Using Add/Remove Programs .....	10



# Preface

The TIBCO iProcess Server Objects (.NET) comprise a set of classes that are used to build applications that automate business processes. TIBCO iProcess Server Objects (.NET) consists of an object model that provides access to the information and functionality needed in the client applications.

The objects in the TIBCO iProcess Server Objects (.NET) object model can be used to start cases, present information on screens to users, manipulate work items, remind users when actions need to be taken, and monitor and control the flow through the business process.

This guide provides instructions on installing, repairing, or removing the TIBCO iProcess Server Objects (.NET) from your system.

## Topics

---

- [Related Documentation on page vi](#)
- [Connecting with TIBCO Resources on page vii](#)

## Related Documentation

---

This section lists documentation resources you may find useful.

- *TIBCO iProcess Server Objects (.NET) Programmer's Guide* - This guide, which is provided on the distribution DVD, provides explanatory text about developing client applications using TIBCO iProcess Server Objects (.NET). It includes subjects such as TIBCO iProcess Server Objects (.NET) architecture, managing work items, managing cases, filtering work items and cases, etc.
- *TIBCO iProcess Server Objects Release Notes* - These notes, which are provided with each release of the TIBCO iProcess Server Objects (.NET), 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 Server Objects (.NET) On-Line Help* - The on-line help system, which is installed as part of the software installation, provides descriptions and syntax for the properties and methods available to the client application programmer. The on-line help is available in the following location after the installation is complete:

`InstallDir\Help\start.htm`

where *InstallDir* is the directory where you installed the TIBCO iProcess Server Objects (.NET).

If you installed on an x86 machine, the *InstallDir* defaults to:

`C:\Program Files\TIBCO\iProcess Server Objects (.NET)`

If you installed on an x64 machine, the default *InstallDir* depends on whether you installed the 32-bit or 64-bit version of TIBCO iProcess Server Objects (.NET), as follows:

### 32-bit Version:

`C:\Program Files (x86)\TIBCO\TIBCO iProcess Server Objects (.NET)`

### 64-bit Version:

`C:\Program Files\TIBCO\TIBCO iProcess Server Objects (.NET x64)`

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

- *TIBCO iProcess Server Objects (.NET) Object Model Graphic* - This provides a graphical representation of the object hierarchy for the TIBCO iProcess Server Objects (.NET). This graphic is provided on the distribution DVD.

## Connecting with TIBCO Resources

---

### How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

### How to Access TIBCO Documentation

You can access TIBCO documentation here:

<http://docs.tibco.com>

### How to Contact TIBCO Support

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

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

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

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

<https://support.tibco.com>

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





## Chapter 1

# Installing/Upgrading TIBCO iProcess Server Objects (.NET)

This chapter explains how to install or upgrade TIBCO iProcess Server Objects (.NET).

## Topics

---

- *System Requirements, page 2*
- *Installation Procedure, page 4*

## System Requirements

---

The following sections list system requirements for the TIBCO iProcess Server Objects (.NET).

### Microsoft .NET Framework

To develop client applications using TIBCO iProcess Server Objects (.NET), you must have the **Microsoft .NET Framework** installed on your system. The Framework consists of two primary components:

- **Redistribution Package** - This package includes everything needed to run applications that have been developed using the .NET Framework.
- **SDK** - This includes everything developers need to write, build, test, and deploy .NET Framework applications. It includes documentation, samples, and command-line tools and compilers.

TIBCO iProcess Server Objects (.NET) will work with any of the following versions of the .NET Framework: 2.0, 3.0, 3.5, or 4.0. Note, however, if you are running a 32-bit version of TIBCO iProcess Server Objects (.NET), you must also be using a 32-bit version of .NET Framework. And if you are running a 64-bit version of TIBCO iProcess Server Objects (.NET), you must also be using a 64-bit version of .NET Framework.

Note that if you have already installed **Visual Studio**, you may not need to separately install the Redistribution Package and the SDK; they are included in Visual Studio, as follows:

- Visual Studio 2005 includes Microsoft .NET Framework version 2.0.
- Visual Studio 2008 includes Microsoft .NET Framework version 3.5.
- Visual Studio 2010 includes Microsoft .NET Framework version 4.0.

Installing multiple versions of Visual Studio results in multiple versions of Microsoft .NET Framework being on your system.

If you install the Redistribution Package and the SDK, you must install the Redistribution Package first.

For runtime-only purposes, you only need the Redistribution Package, not the SDK.

For more information and downloads of the Microsoft .NET Framework, see:

<http://www.microsoft.com/downloads/browse.aspx?displaylang=en&productID=DE7BB609-3FD0-4B0F-865D-5ED2463AD5D0>



Also see the *Compatibility* section in the *TIBCO iProcess Server Objects (.NET) Release Notes* for information about .NET compatibility with standalone applications that reference iProcess Server Objects (.NET) libraries.

## Microsoft Visual C++ 2008 Redistributable Package

TIBCO iProcess Server Objects (.NET) was built with, and requires, the Microsoft Visual C++ 2008 Redistributable Package. Therefore, you must have the Microsoft Visual C++ 2008 Redistributable Package on Windows runtime machines that will be running applications developed with TIBCO iProcess Server Objects (.NET) (i.e., the machine that contains the TIBCO iProcess Server Objects (.NET) DLLs).

This redistributable package is required on your runtime machine regardless of the version of Microsoft Visual Studio used to develop your application.

The Microsoft Visual C++ 2008 Redistributable Package is not installed by default (although it is included when Microsoft Visual Studio 2008 is installed). You can determine if you have it installed on your machine by looking for "Microsoft Visual C++ 2008 Redistributable" in Add/Remove Programs.

If you do not have the redistributable package installed, download and install it using the following links:

**x86:**

<http://www.microsoft.com/downloads/details.aspx?FamilyID=9b2da534-3e03-4391-8a4d-074b9f2bc1bf&displaylang=en>

**x64:**

<http://www.microsoft.com/downloads/details.aspx?familyid=bd2a6171-e2d6-4230-b809-9a8d7548c1b6&displaylang=en>

## Installing Managed Code in GAC

If your policy is to install managed code in the Global Assembly Cache (GAC), add the `ssoDotNet.dll`, `ssoDotNetV.dll`, and `ssoDotNetXML.dll` to the GAC. However, the `icudt36.dll` and `icuuc36.dll` files contain unmanaged code — these should not be installed in the GAC — they need to be in a directory that is in the Windows path (e.g., `System32`). (The `icu` DLLs could also be installed in the side-by-side cache (WinSxS), if desired — this is the GAC equivalent for unmanaged code.)

## Installation Procedure

---

To perform an installation or upgrade<sup>1</sup> of TIBCO iProcess Server Objects (.NET), follow these steps:

1. Run the **Setup** program (note that a separate **Setup.exe** program is provided for the 32-bit and 64-bit versions).

If you are installing from:

— **distribution DVD:**

- if you want to install the 32-bit version, use the **Setup.exe** program in the `\dotNET\32bit\` directory.
- if you want to install the 64-bit version, use the **Setup.exe** program in the `\dotNET\64bit\` directory.

— **a network server:** Ask your network administrator for the location of **Setup.exe** and run it from there.

The TIBCO iProcess Server Objects (.NET) splash screen is displayed.



If the **Setup** program detects that you already have the version installed that you are attempting to install, it displays a **Repair/Remove** dialog. This dialog can be used to either repair corrupted files or remove the TIBCO iProcess Server Objects (.NET) installation. For more information, see [Repairing/Removing Using the Setup Program on page 9](#).

2. Review the information in the TIBCO iProcess Server Objects (.NET) splash screen, then click **Next**. The **TIBCO End User License Agreement** is displayed.
3. Read the license agreement. To continue with the installation, click **I Agree** to accept the agreement, then click **Next**.

If you do not agree with the license agreement, you can cancel the installation by clicking **Cancel**.

The **Select Installation Folder** dialog is displayed.

---

1. If you are upgrading to version 11.4.0 of TIBCO iProcess Server Objects (.NET) from a previous version, you *must* uninstall the previous version before installing version 11.4.0. For information about uninstalling, see [Repairing/Removing TIBCO iProcess Server Objects \(.NET\) on page 7](#).

- Specify the destination folder where you want to install/upgrade the TIBCO iProcess Server Objects (.NET) files.

If you install on an x86 machine, the destination directory defaults to:

C:\Program Files\TIBCO\TIBCO iProcess Server Objects (.NET)

If you install on an x64 machine, the default destination directory depends on whether you install the 32-bit or 64-bit version of TIBCO iProcess Server Objects (.NET), as follows:

32-bit Version:

C:\Program Files (x86)\TIBCO\TIBCO iProcess Server Objects (.NET)

64-bit Version:

C:\Program Files\TIBCO\TIBCO iProcess Server Objects (.NET x64)

To choose a directory different than the default, either type in the desired path or click **Browse** to select the directory.

You can also click the **Disk Cost** button to determine the required and available disk space.

Also note that if you have administrator privileges, the **Everyone** and **Just me** radio buttons are also displayed. These buttons specify who can see and access TIBCO iProcess Server Objects (.NET) from **Control Panel Add/Remove Programs**. Select as desired.

- Click **Next**. The **Confirm Installation** window is displayed.
- Click **Next** to begin the installation. The TIBCO iProcess Server Objects (.NET) files are copied to the installation directory. The **Installation Complete** window is displayed when the installation is finished.
- Click **Close** to complete the installation.

See [Installed Files on page 5](#) for information about the files and directories that are added to your system.

## Installed Files

The following files and directories are installed by the TIBCO iProcess Server Objects (.NET) installation program:

File/Directory	Description
icudt36.dll <sup>1</sup>	Data table used for Unicode support.
icuuc36.dll <sup>1</sup>	Unicode converter used to convert from Unicode to other character sets.

File/Directory	Description
ssoDotNet.dll <sup>1</sup>	This file contains the classes for creating Server Objects.
ssoDotNetV.dll <sup>1</sup>	This file contains the classes for creating the Value Objects.
ssoDotNetXML.dll <sup>1</sup>	This file contains the classes for the XML interface.
\Help	This directory contains the HTML-based on-line help. The <b>start.htm</b> file is used to start the help system.
\License	This directory contains the TIBCO license agreement.
\xml	This directory contains an XML schema file ( <b>schema1.xsd</b> ) that describes the structure of the TIBCO iProcess Server Objects (.NET) XML interface. This file is used internally by the TIBCO iProcess Workspace (Browser) Action Processor, although it could be used by someone who wants to program directly to the XML interface.

1. Note that all of the assemblies are strongly named.

## Chapter 2

## Repairing/Removing TIBCO iProcess Server Objects (.NET)

This chapter explains how to repair and/or remove TIBCO iProcess Server Objects (.NET) from your system.

### Topics

---

- *Introduction, page 8*
- *Repairing/Removing Using the Setup Program, page 9*
- *Removing Using Add/Remove Programs, page 10*

## Introduction

---

There are two methods of removing TIBCO iProcess Server Objects (.NET):

- Using the **Setup** program that was used to install TIBCO iProcess Server Objects (.NET). This method also allows you to "repair" the product if it has become corrupted.

For more information, see [Repairing/Removing Using the Setup Program on page 9](#).

- Using the **Add/Remove Programs** facility in Windows.

For more information, see [Removing Using Add/Remove Programs on page 10](#).



## Repairing/Removing Using the Setup Program

---

The TIBCO iProcess Server Objects (.NET) **Setup** program has the capability to either:

- repair an existing installation if the TIBCO iProcess Server Objects (.NET) files have become corrupted in some way, or
- remove the existing installation.

To accomplish this, you must run the **Setup** program for the same version of TIBCO iProcess Server Objects (.NET) that you already have installed.

To repair/remove an existing version of TIBCO iProcess Server Objects (.NET), perform these steps:

1. Run the **Setup** program for the same version you already have installed. If you are installing from:

— **Distribution DVD:** Run **Setup.exe**.

— **a network server:** Ask your network administrator for the location of **Setup.exe** and run it from there.

The TIBCO iProcess Server Objects (.NET) installation program detects that you already have that version installed.

2. Click the appropriate radio button, as follows, then click **Finish**.
  - The "Repair" option causes corrupted files to be replaced.
  - The "Remove" option causes the TIBCO iProcess Server Objects (.NET) files to be removed from your system.

The **Installation Complete** window is displayed when the repair/remove operation is finished.

3. Click **Close** to complete the repair/remove operation.

## Removing Using Add/Remove Programs

---



There is an anomaly in Windows that causes multiple entries for TIBCO iProcess Server Objects (.NET) in the Control Panel Add/Remove Programs if you have installed a newer version of TIBCO iProcess Server Objects (.NET) to the same directory. When installing a newer version to the same directory, the older version is overwritten by the newer version. However, entries for both versions remain in Add/Remove Programs. To remove TIBCO iProcess Server Objects (.NET) in this situation, you must remove both versions using Add/Remove Programs.

To remove TIBCO iProcess Server Objects (.NET), follow these steps:

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

All TIBCO iProcess Server Objects (.NET) files and directories will be removed from your system. However, if the remove program detects files in the TIBCO iProcess Server Objects (.NET) installation directory that were not added by TIBCO iProcess Server Objects (.NET), it will not remove those files nor the directory. It will only remove the TIBCO iProcess Server Objects (.NET)-related files.