

TIBCO BusinessConnect™ Remote

Installation

*Software Release 5.0
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Preface

TIBCO BusinessConnect Remote is an easy-to-use, light-weight application that allows small partners to exchange ecommerce business documents with BusinessConnect host companies.

Topics

- *Related Documentation, page vi*

Related Documentation

This section lists documentation resources you may find useful.

TIBCO BusinessConnect Remote Documentation

The following documents form the TIBCO BusinessConnect Remote documentation set:

- *TIBCO BusinessConnect Remote Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO BusinessConnect Remote User's Guide* Read this manual for instructions on using the product to exchange documents with the BusinessConnect host.
- *TIBCO BusinessConnect Remote Host Guide* This manual is intended for the BusinessConnect Remote host and is available separately from the TIBCO download site. It is not included with the documentation installed with the product. It includes information for the BusinessConnect host to help them support their trading partners in their use of BusinessConnect Remote software.

TIBCO BusinessConnect Remote Release Notes Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Chapter 1

Installing TIBCO BusinessConnect Remote

This document explains how to install TIBCO BusinessConnect Remote on Microsoft Windows and Linux systems.

Topics

- *Installer Overview, page 2*
- *Disk Space Requirements, page 4*
- *Installation Registry, page 5*
- *Installing on Microsoft Windows, page 7*
- *Installing on Linux Systems, page 11*
- *Installation FAQs and Troubleshooting, page 16*

Installer Overview

Options

The installer allows you to specify which components you want to install:

- TIBCO BusinessConnect Remote — TIBCO BusinessConnect Remote consists of a runtime engine and console.
- Documentation — TIBCO BusinessConnect Remote documentation, including the `readme.txt` file. If you decided not to install documentation, this folder is not in the installation. The `doc` folder contains HTML and PDF folders.

Modes

The installer allows you to run in different modes. Each mode is supported on all platforms.

- GUI mode
- Console mode
- Silent mode

GUI Mode

In GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. When you invoke the installer by double-clicking on the icon, GUI mode is used.

Console Mode

Console mode allows you to run the installer from the command prompt or terminal window. This is useful if your machine does not have a Windows environment.

Silent Mode

Silent mode either installs using default settings or uses a response file that was saved during an earlier installation. Silent mode installs without prompting you for information.

- If no response file has been recorded earlier and you invoke the installer with the `-silent` argument, the default installation parameters are used.

- If a response file exists, and the installer is started with `-options responseFileName` as an argument, the installer uses the values specified by the user when the response file was generated.

Disk Space Requirements

This section lists the temporary disk space requirements required to run the installer on Microsoft Windows and Linux platforms.

If your system does not have sufficient free disk space in the default temporary area, you can run the installer with a different temporary area by using the following option when starting the installer:

```
-is:tempdir /new_tmp
```

where */new_tmp* has sufficient free disk space.

Microsoft Windows

During installation, the entire package is extracted into a temporary folder, typically

```
%SystemDrive%\Temp Or %SystemDrive%\Documents and  
Settings\user_name\Local Settings\Temp
```

The installer requires 100 MB of free space in the temporary folder.

Linux

The installer requires a Java virtual machine (JVM) to execute. The installer launcher searches for an existing JVM. If the JVM is not found or is the wrong version, the installer extracts a JVM to a temporary area and uses this JVM to launch itself. The size of the extracted JVM differs from platform to platform; the free disk space required in the temporary area to hold the extracted JVM is:

- **Linux** 50 MB in */tmp*

Disk Space Requirement in User's Home Directory

On Linux, when a regular (non-root) user installs a TIBCO product, the installation registry (two vpd files) is maintained in the user's home directory. See Installation Registry on page 5. As more products are installed, entries are added into these vpd files. The user's home directory must at least have 500 KB of free disk space.

Installation Registry

The installer maintains an installation registry. The installation registry consists of two files prefixed with `vpd`, which stands for vital product database:

```
vpd.properties
vpd.properties.tibco.systemName
```



Do not edit, modify, rename, move, or remove any of the registry `vpd` files.

The location of the registry files depends on the operating system platform and who performs the installation.

Microsoft Windows Platforms

TIBCO BusinessConnect Remote maintains the installation registry in the `SystemRoot` folder. The following files represent the installation registry:

```
%SystemRoot%\vpd.properties
%SystemRoot%\vpd.properties.tibco.system_name
```

Example:

```
C:\WINDOWS\vpd.properties
C:\WINDOWS\vpd.properties.tibco.system_name
```

Linux

Root User Account

If installation is performed by super-user (root), the installation registry files are stored in the following directories:

- **Linux** `/root`

Regular User Account

If installation is performed by a regular user (non-root), the installation registry files are stored in the user's home directory:

```
user_home_directory/vpd.properties
user_home_directory/vpd.properties.tibco.systemName
```

Installation History

The installer creates an installation history file called `TIBCOInstallationHistory.xml` in the *same* directory that contains the installation registry files. Each time an installation or uninstallation is performed, entries are appended to the file. The file `TIBCOInstallationHistory.xml` therefore contains the record of all installation and uninstallation activities of all products, features and components.



Do not edit, modify, rename, move, or remove the `TIBCOInstallationHistory.xml` file.

Installing on Microsoft Windows

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements.

Prerequisites

The following is a list of prerequisites for installing TIBCO BusinessConnect Remote on Microsoft Windows systems. See Disk Space Requirements on page 4 for additional requirements.

Table 1 Supported Platforms for Microsoft Windows

Platform	Service Pack/Edition	Disk Space (MB)
Microsoft Windows 2003 Server		80
Microsoft Windows XP	Professional Edition with Service Pack 2	80
Microsoft Windows 2000 Server	Professional Edition with Service Pack 2	80

Installer Account

You must have administrator privileges for the machine on which TIBCO BusinessConnect Remote is installed.

If you do not have administrator privileges, the installer exits. You must then log out of the system and log in as a user with the required privileges, or request your system administrator to assign the privileges to your account.

Installing on a Network Drive

If you intend to install the product on a network drive, you must ensure that the account used for installation has permission to access the network drive.

Installing on Windows 2000 Terminal Server

There are two modes in terminal server, `Execute` and `Install`. By default all users are logged on in `Execute` mode, which allows them to run the applications. When you want to install TIBCO BusinessConnect for use by everyone, the Administrator should change to `Install` mode.

The best way to install BusinessConnect Remote is to use the Add/Remove Programs control panel applet, because this automatically sets the mode to `Install` during the installation and then back to `Execute` at the end. Alternatively, you can manually change your mode to `Install` by typing:

```
C:\> change user /install
```

Change back to execute:

```
C:\> change user /execute
```

Check your current mode:

```
C:\> change user /query
```

If you install in the `Execute` mode, the installation registry is maintained in your user home directory. If you install in the `Install` mode, the installation registry is maintained in the `SystemDrive:\WINNT\` folder.

Installation Procedures

- A typical install has minimal prompts and installs standard components in default locations.
- A custom install prompts you to choose which components of the product suite to install and installs only those components.

The installer installs the software to this directory: *TIBCO_HOME/bcremote/5.0.*

TIBCO BusinessConnect Remote provides the following installation options:

- Install Using GUI Mode on page 8
- Install Using Console Mode on page 9
- Install Using Silent Mode on page 9
- Install and Generate a Response File on page 9
- Install Using a Response File on page 9
- Combining Installation Options on page 10

Install Using GUI Mode

GUI mode allows you to input values in panels. Type the following at the command prompt:

```
TIB_bcremote-suite_5.0.0_win_x86.exe
```

Install Using Console Mode

Console mode allows you to install the software in a non-windows environment. The installer will prompt you for values. Type the following at the command prompt:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -is:javaconsole -console
```

When running in console mode you can move through the installation process as described next:

```
Enter Key = Performs default action; typically moves forward in the
installer
2 = Goes back to previous screen
3 = Cancels the Wizard and exits the installation or uninstallation
4 = Redisplays the current screen
```

Install Using Silent Mode

Silent mode allows you to install the software without prompts. Type the following at the command prompt:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -silent
```

Install and Generate a Response File

You can generate a response file during installation which you can later use to invoke the installer with the selected values as default values (GUI mode) or as selected values (silent mode).

To install and generate a response file, type the following at the command prompt:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -options-record
C:\directoryPath\responseFile
```



The response file does not record selections at the component level. It does record all other selections, for example, which products you wished to install.

Install Using a Response File

You can use a previously generated response file for installation. For non-silent modes, the response file determine the defaults that are presented. For silent mode, the response file determines what will be installed.

To install using a response file, type the following at the command prompt:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -options
C:\directoryPath\responseFileName
```

Combining Installation Options

You can combine the different installation options. For example, to install in silent mode using a response file, use:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -silent -options responseFileName
```

To install using console mode and generate a response file, use:

```
TIB_bcremote-suite_5.0.0_win_x86.exe -is:javaconsole -console  
-options-record responseFileName
```

Install Unlimited Strength JCE Policy Files

To use BusinessConnect Remote security features, you must download and install Java™ Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.5.0.

To download and install the policy files, perform these steps:

1. Download the required files from the following web sites:
`http://java.sun.com/j2se/1.5.0/download.jsp`
2. Unzip `jce_policy-1_5_0.zip`
3. Copy `US_export_policy.jar` and `local_policy.jar` to:
`TIBCO_home\jre\1.5.0\lib\security`

Uninstalling

Use one of the following procedures to uninstall TIBCO BusinessConnect Remote:

- Click **Start > Programs > TIBCO > TIBCO BusinessConnect Remote 5.0> Uninstall**
- Use Add/Remove Programs from the Control Panel.
- Navigate to the `_uninst` directory located in the TIBCO BusinessConnect home directory and invoke the `Tibuninstall.exe` program.

Installing on Linux Systems

Prerequisites

The following is a list of prerequisites for installing TIBCO BusinessConnect Remote on Linux systems. Your operating system must meet the minimum patch requirements listed in Table 2. See Disk Space Requirements on page 4 for additional requirements.

Table 2 Supported Platforms and Disk Space for Linux Systems

Platform		Disk Space (MB)
Linux	Kernel 2.4.6 or later glibc2.2.2 or later	60

Installer Account

TIBCO BusinessConnect Remote can be installed by a regular (non-root) user and super-user (root). Different users can install the same product at different locations.

Product dependencies at install time are resolved at user level through the installation registry maintained at user's home directory. See Installation Registry on page 5 for more information.

Graphic Environment

A graphic environment such as CDE or X Windows is required to run the installer in GUI mode. It is not required for a console installation.

Unpack the Software

TIBCO Software provides a compressed file that you need to unpack before you can access the installation file. One way to unpack the file is to use the tar command at the Linux command line:

```
tar -xvf TIB_bcremote-suite_5.0.0_linux24gl22_x86.tar
```

Installation Procedures

After unpacking the software and accepting the license agreement, you can choose to perform a typical install or custom install.

- A typical install has minimal prompts and installs standard components in default locations.
- A custom install prompts you to choose which pieces of the product suite to install and installs only those components.

By default, the installer installs the software to this directory: `tibco/bcremote`.

The Linux installation package is named

`TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin`

TIBCO BusinessConnect Remote provides the following installation options:

- Install Using GUI Mode on page 12
- Install Using Console Mode on page 12
- Install Using Silent Mode with Default Values on page 12
- Install and Generate a Response File on page 13
- Install Using a Response File on page 13
- Combining Installation Options on page 13

Install Using GUI Mode

GUI mode allows you to input values in panels. Type the following in a terminal window:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin
```

Install Using Console Mode

Console mode allows you to install the software in a non-windows environment. The installer prompts you for values. Type the following in a terminal window:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -is:javaconsole
-console
```

When running in console mode, you can move through the installation process as described next:

```
Enter Key = Performs default action; typically moves forward in the
installer.
2 = Goes back to previous screen
3 = Cancels the Wizard and exits the installation or uninstallation
4 = Redisplays the current screen
```

Install Using Silent Mode with Default Values

Silent mode allows you to install the software without prompts using default values. Type the following in a terminal window:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -silent
```

Install and Generate a Response File

You can generate a response file during installation which you can later use to invoke the installer with the selected values as default values (GUI mode) or as selected values (silent mode).

To install and generate a response file, type the following at the command prompt:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -options-record  
/directoryPath/responseFile
```



The response file does not record selections at the component level. It does record all other selections, for example, which products you plan to install.

Install Using a Response File

You can use a previously generated response file for installation. For non-silent modes, the response file determines the defaults that are presented. For silent mode, the response file determines what will be installed.

To install using a response file, type the following at the command prompt:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -options  
/directoryPath/responseFileName
```

Combining Installation Options

You can combine the different available options. For example, to install in silent mode using a response file, use:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -silent -options  
responseFileName
```

To install using console mode and generate a response file, use:

```
% ./TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -is:javaconsole  
-console -options-record  
responseFileName
```

Install Unlimited Strength JCE Policy Files

To use BusinessConnect Remote security features, you must download and install JavaTM Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.5.0.

To download and install the policy files, perform these steps:

1. Download the required files from the following web sites:
`http://java.sun.com/j2se/1.5.0/download.jsp`
2. Unzip `jce_policy-1_5_0.zip`
3. Copy `US_export_policy.jar` and `local_policy.jar` to:
`TIBCO_home\jre\1.5.0\lib\security`

Uninstalling

Use one of the following procedures to uninstall TIBCO BusinessConnect Remote:

- Navigate to the `_uninst` directory located in the TIBCO BusinessConnect Remote home directory and invoke the `Tibuninstall` program.

Installation FAQs and Troubleshooting

This section lists some common errors along with their causes and solutions.

Frequently Asked Questions

Where is the installation log file located?

Install and uninstall log files are created in the `TIBCO_HOME\log` directory.

What should I do if the JVM crashes when I run the installer?

The installer first extracts the bundled JVM into a temporary area and then uses it to launch itself. If for some reason, the JVM crashes, you can still run the installer using another JVM, preferably JVM 1.4.2 or higher. The syntax is:

Example 1

```
TIB_bcremote-suite_5.0.0_win_x86.exe -is:javahome C:\j2sdk1.4.2
TIB_bcremote-suite_5.0.0_linux24gl22_x86.bin -is:javahome
/opt/jre1.4.2
```

The `javahome` directory must contain `bin/java.exe` or `bin/java`.

The installer will use the externally supplied JRE to launch itself.

What is `uninst2` directory?

If the original uninstall directory is in use at uninstall time, it cannot be removed by the installer program. The installer then creates a second uninstall directory for the second installation. To remove the second installation, you must invoke the uninstall program from the second uninstall directory. The original uninstall directory can also be manually removed, if empty.

Speeding Up Installation

The installer is Java-based and requires a Java Virtual Machine (JVM) to launch. If the installer can use a JVM already on your system, installation is faster and uses less disk space. Otherwise, the installer extracts JVM from the installation package. This section explains where the installer searches for JVM, and how you can add a different location to the search path.

Every product installer is bundled with the appropriate platform-specific JVM version. When launched, the installer first searches for the appropriate JVM version on the target system.

- If the installer finds the required JVM version, it uses that JVM to launch itself.
- If the installer does not find the required JVM version, it extracts the bundled JVM into a temporary space and uses that JVM to launch itself.

How the Installer Searches for JVM

The installer by default searches for an appropriate JVM version in a set of standard locations. These standard locations are platform specific and are listed in JVM Search Locations on page 18. On each platform, the installer searches for JVM 1.4.2 only.

Speeding the JVM Search

You can speed up the JVM search by taking one of these actions before you launch the installer:

- Set the environment variable JAVA_HOME or JDKHOME to the JVM home directory, for example:

Unix Bourne or Korn shell	<code>JAVA_HOME=/opt/jre1.4.2; export JAVA_HOME</code>
Unix C-shell	<code>setenv JAVA_HOME /opt/jre1.4.2</code>
Microsoft Windows	<div>1. Choose Start > Settings > Control Panel > System-Environment > System Variable or User Variables.</div> <div>2. Add a <code>JAVA_HOME</code> variable and set its value.</div> <div>3. Note: On Microsoft Windows, setting <code>JAVA_HOME</code> in a command prompt will not be effective.</div>
<ul style="list-style-type: none">• Include a command line option <code>-is:javahome</code> when launching the installer. For example:	
Windows suite installer	<code>exe -a -is:javahome c:\java\JRE\1.4.2</code>
Other installers	<code>exe_or_bin -is:javahome /opt/jre1.4.2</code>

Benefits of Using Available JVM over Extracting Bundled JVM

- JVM search is quick. It is searched for in well defined locations. It can be sped up by setting an environment variable or by using a command line option.
- Extraction of bundled JVM is avoided, which saves both time and temporary disk space. Initial loading of the installer is faster.
- If the bundled JVM is extracted and used for launching the installer, then a copy of this JVM is installed for launching the uninstaller in the `_jvm` directory in the product location.

However, if JVM was resolved through JVM search, the uninstaller just points to this JVM and uses it later to launch itself. In this case, JVM is not installed. This is a major benefit in terms of disk space.

- If the JVM to which the uninstaller points is removed at any time, you can still run the uninstaller using the `-is:javahome` option to point to a different JVM location.

JVM Search Locations

The following tables list the search locations for the different platforms.



The installer only searches for JVM version 1.4.2. If a different JVM version exists in the system, or is passed in using the environment variable or command-line option, the installer ignores that JVM and extracts the bundled JVM.

Table 3 Windows

Location	Description
Environment	Set in Control Panel, not in command prompt JAVA_HOME JDKHOME
Registry	\HKEY_LOCAL_MACHINE\SOFTWARE\ JavaSoft\Java Runtime Environment\ 1.4.2\JavaHome \HKEY_LOCAL_MACHINE\SOFTWARE\ JavaSoft\ Java DevelopmentKit\1.4.2\JavaHome
Directory	\Program Files\JavaSoft\JRE\1.4.2 \JavaSoft\JRE\1.4.2 \Java\JRE\1.4.2

Table 4 Linux

Location	Description
Environment	JAVA_HOME JDKHOME
Path	/usr/jre1.4.2 /usr/local/jre1.4.2 /opt/jre1.4.2 /opt/j2re1.4.2

Running Out of Disk Space

The installer calculates the disk space required in product home location for the selected components. The calculation is done before the actual installation (copying of files to system) begins. The installer will proceed only if sufficient free disk space is available in product home location.

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, the installer may fail and will then give a failure message.

Solution

While performing installation, avoid running other processes that consume disk space in product home location.

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