



TIBCO Rendezvous®

Installation

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Introduction

This manual contains step-by step instructions for installing TIBCO Rendezvous® software, *release 8.7.0*.

Before You Install

Before you begin to install the Rendezvous® software, do these items first:

- Read about any late-breaking changes, described in the Release Notes and README files.
- Read the TIBCO Software Inc. License Agreement included with the product.
- Read the appropriate topics for your platforms.
- Review the section Do This First—Administrator's Checklist in TIBCO Rendezvous Administration.

Update or Reinstallation

If you are upgrading from an earlier version or reinstalling this software and wish to uninstall the previous installation, first use the Rendezvous Uninstall command or tool to uninstall the current installation.

If you install Rendezvous without uninstalling the previous version, both installations will exist on the host computer.

Size and Time to Install

Rendezvous software requires approximately 350MB of storage and takes less than 10 minutes to install.

Directory Structure

When you install Rendezvous software, the installation directory contains these sub-directories:

Distribution Directories

Subdirectory	Status
bin	Required to develop or run Rendezvous programs. Contents: executable files, shared libraries (DLL files).
lib	Required to develop Rendezvous programs.
include	Required to develop Rendezvous programs.
doc	Optional on-line documentation (PDF and HTML).
src	Optional source code for example programs.
example	Example program.

Platform-Specific Installation Procedures

Each supported platform dictates a different installation procedure. The following table guides you to the appropriate procedures for the platforms at your site.

Installation Procedure by Platform

Platform	See
UNIX	UNIX
Microsoft Windows	Microsoft Windows
IBM i	IBM i
z/OS	See TIBCO Rendezvous for z/OS Installation and Configuration

UNIX

Before You Install

Please consider these items before you install TIBCO Rendezvous software on one or more UNIX platforms.

Installer Account

To install TIBCO Rendezvous, you can login either as a regular (non-root) user or as super-user (root).

Running rvd with Increased Scheduling Priority

You can improve performance by running the Rendezvous daemon (rvd) with increased scheduling priority.

To arrange for increased priority, log in as root before running the INSTALL program; when INSTALL asks if you wish to run the Rendezvous daemon as setuid root, answer **y** (yes).

If you have already installed the Rendezvous software and want to change its scheduling priority, use the UNIX `chown` and `chmod` commands to set the Rendezvous daemon (rvd) to run as root.

Certain UNIX platforms let you set privileges (and hence, scheduling priority) based on groups. That approach also works well for the Rendezvous daemon.

When rvd runs as root, it raises its scheduling priority, and then restores normal user privileges (before executing any calls). File access does not occur while running with special privileges.

Size and Time to Install

Rendezvous software requires approximately 6 megabytes of storage and takes less than 10 minutes to install. Instructions for installation follow.

Installing Several Instances on One File System

When installing on UNIX platforms, you can (serially) install several instances of Rendezvous software in different directories on the same file system.

Select the Installation Package

Download the appropriate installation package for your platforms and variant. See [UNIX Installation Packages](#).

UNIX Installation Packages

OS	Hardware	Installer Package
Apple macOS	Intel x86-64	TIB_rv_<version>_macos_x86_64.pkg
Novell SUSE Linux Enterprise Server	Intel x86-64	TIB_rv_<version>_linux_x86_64.zip
Red Hat Enterprise Linux		

Install

Procedure

1. Select the appropriate OS in [UNIX Installation Commands](#), and enter the command line.

UNIX Installation Commands

OS	Command	Note
macOS	<code>sudo installer -verbose -pkg /path/to/package.pkg -target <DEVICE></code>	The parameter for option <code>-target</code> is a device, not a path, and is typically <code>/</code> .
Linux	<code>sudo yum install -y rpm/*.rpm</code>	<code>sudo yum remove -y tib_rv_<major.minor>.x86_64</code> To install to SUSE, use <code>sudo zypper install rpm/*.rpm</code> To uninstall from SUSE, use <code>sudo zypper rm tib_rv_<major.minor></code>

2. When installation is complete, see Do This First—Administrator's Checklist on in TIBCO Rendezvous Administration.

Microsoft Windows

The Rendezvous installation procedures are identical across all supported Windows platforms.

Installer Account

You must have administrator privileges to install TIBCO Rendezvous. If you intend to install the product on a network drive, ensure that the account used for installation has permission to access the network drive.

Install

Installation adds a Windows program group for Rendezvous software.

Procedure

1. Download or locate the appropriate installation package. See [Windows Installation Packages](#).

Windows Installation Packages

Description	Installer Package
Rendezvous for Windows (64-bit)	TIB_rv_<version>_win_x86_64.exe

2. Double-click the installer file and follow the prompted instructions.
3. When installation is complete, see Do This First—Administrator's Checklist on in TIBCO Rendezvous Administration.

Check the README File

The README file contains up-to-the-minute information about the Rendezvous software release. We recommend that you scan it for the latest news.

IBM i

Follow these instructions to install Rendezvous software on IBM i platforms.

Installation on IBM i platforms uses the RSTLICPGM command, which is described in the IBM i operating system documentation.

Requirements

Rendezvous software requires IBM i with TCP/IP installed. For details, see the IBM document *TCP/IP Fastpath Setup*.

IBM i Installation Package

This procedure installs the Rendezvous software in the default TIBRVLIB library.

**Note**

To install the Rendezvous software in a different or custom library, or to install alongside a previous version, see the README.400 file.

Procedure

1. Locate the appropriate installer package for your platform, as listed in [IBM i Distribution Directories](#). (For the latest changes, see the README.400 file.)

IBM i Distribution Directories

Platform	Installer Package	Notes
IBM i	TIB_rv_<version>_ibmi_power.zip	Sold separately.

2. On a Windows-based or UNIX-based system, unzip the installation package in a temporary location.
3. On an IBM i system, do these steps:

Login as QSECOFR.

Create a save file on your IBM i system called TIBRV. Use the command CRTSAVF to do this.

Copy the save file (TIBRV.SAV) from the temporary (unzip) directory to the save file you created in step 3 [Create a save file on your IBM i system called TIBRV. Use the command CRTSAVF to do this.](#)

4. If another version of TIBCO Rendezvous is installed to the TIBRVLIB default library, you must uninstall it before installing this version.

Run the DSPSFWRSC command to confirm that Rendezvous is installed to the TIBRVLIB default library. Also note the seven-character identifier (e.g., 2TIBRV2), to be used in step 4 [Use this command to uninstall.](#)

Ensure that no TIBCO Rendezvous programs are running, and that TIBRVLIB is not in any user's library list.

Use this command to uninstall:

```
DLTLICPGM LICPGM(seven-character identifier)
```

5. Install using the command RSTLICPGM as follows:

```
RSTLICPGM LICPGM(2TIBRV3) DEV(*SAVF) SAVF(libname/TIBRV)
```

libname is the library where you created the save file, in step 3 [Create a save file on your IBM i system called TIBRV. Use the command CRTSAVF to do this..](#)

Figure 1: IBM i: Beginning the Installation

Restore Licensed Program (RSTLICPGM)		
Type choices, press Enter.		
Product	> 2TIBRV3	Character value
Device	> *SAVF	Name, *SAVF
+ for more values		
Optional part to be restored .	*BASE	*BASE, 1, 2, 3, 4, 5, 6,7...
Type of object to be restored	*ALL	*ALL, *PGM, *LNG
Language for licensed program	*PRIMARY	Character value, *PRIMARY...
Output	*NONE	*NONE, *PRINT
Release	*FIRST	Character value, *FIRST
Replace release	*ONLY	Character value, *ONLY, *NO
Save file	TIBRV	Name
Library	QTEMP	Name, *LIBL, *CURLIB
More...		
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel		
F13=How to use this display F24=More keys		

Post-Installation Instructions

Procedure

1. The initial library list must contain the Rendezvous library (TIBRVLIB is the default library name). Edit all relevant job descriptions to include it.
2. Rendezvous software requires multi-threading. Edit all relevant job descriptions to enable multiple threads.



Tip

The example job description TIBRVLIB/TIBRV illustrates items 1 and 2.

3. If your IBM i system is configured with a fully-qualified domain name, ensure that the host table entry for your system contains the full name of the computer. For example, if your domain name is mycompany.com, and the machine name is mymachine, then put mymachine.mycompany.com in the host table.
4. For Java programs, set the CLASSPATH environment variable to include `/usr/tibco/tibrv/<version>/lib/tibrvj.jar`.
5. To run Rendezvous programs using **qsh**, you must first set the environment variable QIBM_MULTI_THREADED to the value Y (before starting qsh).



Tip

To set the values of items 4 and 5 automatically, create a CL program similar to this example, and set the INLPGM parameter in the user profile to run it automatically when the user logs in.

```
PGM          /* start it */
              /* For Java with qsh, set these vars */
ADDENVVAR ENVVAR(QIBM_MULTI_THREADED) VALUE(Y)
ADDENVVAR ENVVAR(CLASSPATH) +
          VALUE('/usr/tibco/tibrv/libtibrvj.jar')
```

Whether you set the variables manually or automatically, their values persists until logout.

6. IBM imposes limitations on multi-threaded programs. Remember that all Rendezvous programs are inherently multi-threaded.

You must run multithreaded programs either in *batch* or *interactive batch* subsystems—*not* in the interactive subsystem. When submitting jobs using SBMJOB, set the ALWMLTTHD parameter to (*YES).

You cannot run multi-threaded programs in the interactive environment. In other words, you cannot use CALL from a terminal to start a program that uses Rendezvous.

**Tip**

Error messages stating that pthread_create failed indicate that you have not set QIBM_MULTI_THREADED, or you have used the CALL command to start a Rendezvous program.

Check the AAREADME File

The AAREADME file contains up-to-the-minute information about the Rendezvous software releases. We recommend that you scan it for the latest news.

The AAREADME file is located in the same library as the other Rendezvous software components. A version that can be read on a PC is in the file README.400.

Review the Administrator's Checklist

The TIBCO Rendezvous Administration begins with a checklist for system administrators. Review the steps in that list now, and complete the steps that are appropriate for your site.

See Also

Do This First—Administrator's Checklist in TIBCO Rendezvous Administration.

Virtualized and Public Cloud Environment Support

For information about TIBCO virtualized and public cloud environment, see [Virtualized and Public Cloud Environment Support](#).

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO Rendezvous® Product Documentation](#) page:

- *TIBCO Rendezvous® Concepts* - Read this book first. It contains basic information about Rendezvous components, principles of operation, programming constructs and techniques, advisory messages, and a glossary. All other books in the documentation set refer to concepts explained in this book.
- *TIBCO Rendezvous® Administration* - Begins with a checklist of action items for system and network administrators. This book describes the mechanics of TIBCO Rendezvous® licensing, network details, plus a chapter for each component of the TIBCO Rendezvous® software suite. Readers should have TIBCO Rendezvous Concepts at hand for reference.
- *TIBCO Rendezvous® Installation* - Includes step-by-step instructions for installing TIBCO Rendezvous® software on various operating system platforms.
- *TIBCO Rendezvous® C Reference* - Detailed descriptions of each data type and function in the TIBCO Rendezvous® C API. Readers should already be familiar with the C programming language, as well as the material in TIBCO Rendezvous Concepts.
- *TIBCO Rendezvous® C++ Reference* - Detailed descriptions of each class and method in the TIBCO Rendezvous® C++ API. The C++ API uses some data types and functions from the C API, so we recommend the TIBCO Rendezvous C Reference as an

additional resource. Readers should already be familiar with the C++ programming language, as well as the material in TIBCO Rendezvous Concepts.

- *TIBCO Rendezvous® .NET Reference* - Detailed descriptions of each class and method in the TIBCO Rendezvous® .NET interface. Readers should already be familiar with either C# or Visual Basic .NET, as well as the material in TIBCO Rendezvous Concepts.
- *TIBCO Rendezvous® Java Reference* - Detailed descriptions of each class and method in the TIBCO Rendezvous® Java language interface. Readers should already be familiar with the Java programming language, as well as the material in TIBCO Rendezvous Concepts.
- *TIBCO Rendezvous® Configuration Tools* - Detailed descriptions of each Java class and method in the TIBCO Rendezvous® configuration API, plus a command line tool that can generate and apply XML documents representing component configurations. Readers should already be familiar with the Java programming language, as well as the material in TIBCO Rendezvous Administration.
- *TIBCO Rendezvous® z/OS Installation and Configuration* - Information about TIBCO Rendezvous® for IBM z/OS systems regarding installation and maintenance. Some information may be also useful for application programmers.
- *TIBCO Rendezvous® Release Notes* - Lists new features, changes in functionality, deprecated features, migration and compatibility information, closed issues and known issues.

To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_rv_8.7.0_docinfo.html`

where `TIBCO_HOME` is the top-level directory in which TIBCO products are installed.

- On Windows, the default `TIBCO_HOME` is `C:\tibco`.
- On UNIX systems, the default `TIBCO_HOME` is `/opt/tibco`.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the our [product Support website](#). If you do not have a username, you can

request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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