TIBCO Rendezvous®

Installation

Software Release 8.4
February 2012
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Preface

TIBCO Rendezvous® is a messaging infrastructure product.

TIBCO is proud to announce the latest release of TIBCO Rendezvous®. This release is the latest in a long history of TIBCO products that leverage the power of the Information Bus® to enable truly event-driven IT environments. To find out more about how TIBCO Rendezvous and other TIBCO products are powered by TIB® technology, please visit us at www.tibco.com.

This manual describes installation of TIBCO Rendezvous software. It is part of the documentation set for Rendezvous Software Release 8.4.0.

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. Please see the readme.txt file for the availability of this software version on a specific operating system platform.

Topics

- Manual Organization, page xiv
- Related Documentation, page xv
- Typographical Conventions, page xvii
- Connecting with TIBCO Resources, page xx
Manual Organization

This book includes one chapter for each group of related operating system platforms.
Related Documentation

This section lists documentation resources you may find useful.

TIBCO Rendezvous Documentation

The documentation road map shows the relationships between the books and online references in this product’s documentation set.

The following documents form the Rendezvous documentation set:

- **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 C Reference**

  Detailed descriptions of each datatype and function in the Rendezvous C API. Readers should already be familiar with the C programming language, as well as the material in *TIBCO Rendezvous Concepts*. 

TIBCO Rendezvous Installation
• **TIBCO Rendezvous C++ Reference**
  Detailed descriptions of each class and method in the Rendezvous C++ API. The C++ API uses some datatypes 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 Java Reference**
  Detailed descriptions of each class and method in the 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 .NET Reference**
  Detailed descriptions of each class and method in the 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 COM Reference**
  Detailed descriptions of each class and method in the Rendezvous COM component. Readers should already be familiar with the programming environment that uses COM and OLE automation interfaces, as well as the material in *TIBCO Rendezvous Concepts*.

• **TIBCO Rendezvous Administration**
  Begins with a checklist of action items for system and network administrators. This book describes the mechanics of Rendezvous licensing, network details, plus a chapter for each component of the Rendezvous software suite. Readers should have *TIBCO Rendezvous Concepts* at hand for reference.

• **TIBCO Rendezvous Configuration Tools**
  Detailed descriptions of each Java class and method in the 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 Installation**
  Includes step-by-step instructions for installing Rendezvous software on various operating system platforms.

• **TIBCO Rendezvous Release Notes**
  Lists new features, changes in functionality, deprecated features, migration and compatibility information, closed issues and known issues.
Typographical Conventions

The following typographical conventions are used in this manual.

Table 1  General Typographical Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIBCO_HOME</td>
<td>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as TIBCO_HOME. The value of TIBCO_HOME depends on the operating system. For example, on Windows systems, the default value is C:\tibco. Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as ENV_HOME. The default value of ENV_HOME depends on the operating system. For example, on Windows systems the default value is C:\tibco. TIBCO Rendezvous installs into a version-specific directory inside TIBCO_HOME. This directory is referenced in documentation as TIBRV_HOME. The value of TIBRV_HOME depends on the operating system. For example on Windows systems, the default value is C:\tibco\rv\8.4.</td>
</tr>
<tr>
<td>ENV_HOME</td>
<td></td>
</tr>
<tr>
<td>TIBRV_HOME</td>
<td></td>
</tr>
</tbody>
</table>

**Code font**

Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:

Use MyCommand to start the foo process.

**Bold code font**

Bold code font is used in the following ways:

- In procedures, to indicate what a user types. For example: Type `admin`.
- In large code samples, to indicate the parts of the sample that are of particular interest.
- In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: `MyCommand [enable | disable]`
Typographical Conventions

**Table 1  General Typographical Conventions (Cont’d)**

<table>
<thead>
<tr>
<th>Convention</th>
<th>Use</th>
</tr>
</thead>
</table>
| *italic font* | Italic font is used in the following ways:  
  - To indicate a document title. For example: See *TIBCO FTL Concepts*.  
  - To introduce new terms For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal.  
  - To indicate a variable in a command or code syntax that you must replace. For example: *MyCommand PathName*

| Key combinations | Key name separated by a plus sign indicate keys pressed simultaneously. For example: **Ctrl+C**.  
  - Key names separated by a comma and space indicate keys pressed one after the other. For example: **Esc, Ctrl+Q**.  
  - The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.  
  - The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.  
  - The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Use</th>
</tr>
</thead>
</table>
| [ ] | An optional item in a command or code syntax.  
  - For example:  
    *MyCommand [optional_parameter] required_parameter*

| | A logical **OR** that separates multiple items of which only one may be chosen.  
  - For example, you can select only one of the following parameters:  
    *MyCommand para1 | param2 | param3* |
{ }  A logical group of items in a command. Other syntax notations may appear within each logical group.

For example, the following command requires two parameters, which can be either the pair \texttt{param1} and \texttt{param2}, or the pair \texttt{param3} and \texttt{param4}.

\texttt{MyCommand \{param1 \ param2\} | \{param3 \ param4\}}

In the next example, the command requires two parameters. The first parameter can be either \texttt{param1} or \texttt{param2} and the second can be either \texttt{param3} or \texttt{param4}:

\texttt{MyCommand \{param1 | param2\} \{param3 | param4\}}

In the next example, the command can accept either two or three parameters. The first parameter must be \texttt{param1}. You can optionally include \texttt{param2} as the second parameter. And the last parameter is either \texttt{param3} or \texttt{param4}.

\texttt{MyCommand \ param1 [param2] \{param3 | param4\}}
Connecting with TIBCO Resources

How to Join TIBCOmmunity

TIBCOmmunity 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. TIBCOmmunity offers forums, blogs, and access to a variety of resources. To register, go to http://www.tibcommunity.com.

How to Access All 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  Introduction

This manual contains step-by-step instructions for installing TIBCO Rendezvous® software, release 8.4.0.

Topics

- Before You Install, page 2
- Platform-Specific Installation Procedures, page 4
Before You Install

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

- Read Compatibility with Earlier Releases on page 36 in *TIBCO Rendezvous Concepts*.
- Read about any late-breaking changes, described in package inserts and README files.
- Read the TIBCO Software Inc. License Agreement included with the product.
- Read the appropriate chapters for your platforms.
- Review the section Do This First—Administrator’s Checklist on page 1 in *TIBCO Rendezvous Administration*. 
When you install Rendezvous software, the installation directory contains these subdirectories:

Table 3  Distribution Directories

<table>
<thead>
<tr>
<th>Subdirectory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>bin</td>
<td>Required to develop or run Rendezvous programs. Contents: executable files, shared libraries (DLL files).</td>
</tr>
<tr>
<td>lib</td>
<td>Required to develop Rendezvous programs.</td>
</tr>
<tr>
<td>include</td>
<td>Required to develop Rendezvous programs.</td>
</tr>
<tr>
<td>doc</td>
<td>Optional on-line documentation (PDF and HTML).</td>
</tr>
<tr>
<td>src</td>
<td>Optional source code for example programs.</td>
</tr>
</tbody>
</table>
Each supported platform dictates a different installation procedure. Table 4 guides you to the appropriate procedures for the platforms at your site.

**Table 4  Installation Procedure by Platform**

<table>
<thead>
<tr>
<th>Platform</th>
<th>See</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIX</td>
<td>Chapter 2 on page 5</td>
</tr>
<tr>
<td>Microsoft Windows</td>
<td>Chapter 3 on page 11</td>
</tr>
<tr>
<td>VMS</td>
<td>Chapter 4 on page 17</td>
</tr>
<tr>
<td>IBM i</td>
<td>Chapter 5 on page 35</td>
</tr>
<tr>
<td>z/OS</td>
<td>See <em>TIBCO Rendezvous for z/OS Installation and Configuration</em></td>
</tr>
</tbody>
</table>
Topics

- Before You Install, page 6
- Select the Installation Package, page 7
- Run the Installer, page 9
- Review the Administrator’s Checklist, page 10
Before You Install

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

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, or locate it on the distribution DVD.

Installer package names concatenate three parts:

- Prefix `TIB_rv_8.4.0_`
- Core string denoting the operating system and hardware for which the package is appropriate; see Table 5
  (For the latest changes, see the README file.)
- Suffix indicating the archive type (for example `.tar.gz`)

Table 5 UNIX Installation Directories (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>OS</th>
<th>Hardware</th>
<th>Installer Package Suffix</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The following UNIX installer packages include both 32-bit and 64-bit components, except as noted below.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIX 5.3, 6.1, 7.1</td>
<td>IBM RS/6000</td>
<td>aix53_power</td>
<td></td>
</tr>
<tr>
<td>HP/UX 11i (v1, v2, v3)</td>
<td>HP-PA RISC</td>
<td>hpux111_hppa</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IA64 (Itanium)</td>
<td>hpux112_ia64</td>
<td></td>
</tr>
<tr>
<td>Mac OS X 10.5+</td>
<td>Intel</td>
<td>macosx_x86</td>
<td>32-bit and 64-bit components.</td>
</tr>
<tr>
<td>Novell SUSE Linux Enterprise 11</td>
<td>Intel</td>
<td>linux26gl23_x86</td>
<td></td>
</tr>
<tr>
<td>Novell SUSE Linux Enterprise 10 SP1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Novell SUSE Linux Enterprise Server 11 for IBM zSeries (11.3, 11.4)</td>
<td>IBM zSeries</td>
<td>linux26gl24_zseries</td>
<td>64-bit only. Sold separately.</td>
</tr>
</tbody>
</table>
Table 5  UNIX Installation Directories (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>OS</th>
<th>Hardware</th>
<th>Installer Package Suffix</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux 4, 5 (AS, ES)</td>
<td>Intel</td>
<td>linux26gl23_x86</td>
<td></td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 5 (Advanced Platform, Classic)</td>
<td>Intel</td>
<td>linux26gl23_x86</td>
<td></td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 6</td>
<td>Intel 64-bit</td>
<td>linux26gl23_x86</td>
<td></td>
</tr>
<tr>
<td>Solaris 10</td>
<td>Intel</td>
<td>sol10_x86</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sun SPARC</td>
<td>sol8_sparc</td>
<td></td>
</tr>
<tr>
<td>Solaris 9</td>
<td>Sun SPARC</td>
<td>sol8_sparc</td>
<td></td>
</tr>
<tr>
<td>Solaris 8</td>
<td>Sun SPARC</td>
<td>sol8_sparc</td>
<td></td>
</tr>
</tbody>
</table>
Proceed to Chapter 6, Universal Installer, on page 43, and follow the installation instructions there. When installation is complete, see Do This First—Administrator’s Checklist on page 1 in TIBCO Rendezvous Administration.
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

Do This First—Administrator’s Checklist on page 1 in TIBCO Rendezvous Administration.
Chapter 3  Microsoft Windows

The Rendezvous installation procedures for all Windows platforms are identical.

Images in this chapter might not exactly match the images on your screen.

Topics

- Select and Run the Installer, page 12
- Check the README File, page 13
- Windows Registry, page 14
- Review the Administrator’s Checklist, page 15
Select and Run the Installer

Installation adds a Windows program group for Rendezvous software.

1. Locate the appropriate installation package for your platform. Package names incorporate the operating system and hardware for which the package is appropriate; see Table 6. (For the latest changes, see the README file.)

Table 6  Microsoft Windows Distribution Directories

<table>
<thead>
<tr>
<th>O/S Platform</th>
<th>Hardware Platform</th>
<th>Installer Package</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows 2003 Server</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows 2008 Server</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows 7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows Vista Business Edition 64-bit</td>
<td>Intel (64-bit)</td>
<td>TIB_rv_8.4.0_win_x86_64_vc8.zip</td>
<td>For developers using Visual Studio 2008 (VC9).</td>
</tr>
<tr>
<td>Windows XP 64-bit</td>
<td></td>
<td></td>
<td>64-bit Windows does not support COM.</td>
</tr>
<tr>
<td>Windows 2003 Server 64-bit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows 2008 Server 64-bit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows 7 64-bit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Proceed to Chapter 6, Universal Installer, on page 43, and follow the installation instructions there. When installation is complete, return to complete the instructions in the remainder of this chapter.
Check the README File

The README file contains up-to-the-minute information about the Rendezvous software release, and a template for license ticket requests. We recommend that you scan it for the latest news.
Windows Registry

You can arrange for Rendezvous components to run automatically by registering them as Microsoft Windows services.

See
Register Windows Services on page 8 in TIBCO Rendezvous Administration
Windows Services on page 415 in TIBCO Rendezvous Administration.
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

*Do This First—Administrator’s Checklist on page 1* in *TIBCO Rendezvous Administration.*
Follow these instructions to install Rendezvous software on VMS platforms.

Installation on VMS platforms uses the VMSINSTAL utility, which is described in the OpenVMS system management documentation.

VMS does not support the PGM variant.

Topics

- Log In as SYSTEM, page 18
- Check TCP/IP Services, page 19
- VMS Installation Package, page 20
- Mount the Distribution Media, page 21
- Install the Rendezvous Product Software, page 23
- Verify Installation, page 24
- Daemon Privilege and Priority, page 25
- Starting the Rendezvous Daemon at Boot Time, page 26
- Parameters for rvd, page 27
- User Accounts, page 29
- Review the Administrator’s Checklist, page 30
- Additional Information for VMS Programmers, page 32
Log In as SYSTEM

Log in to the SYSTEM account.
Check TCP/IP Services

Rendezvous software will operate properly only if you have installed and started HP TCP/IP Services, or a fully-compliant third-party TCP/IP product. (The appropriate release number of that software may vary; see Table 7.)

Table 7  VMS Distribution Directories

<table>
<thead>
<tr>
<th>Platform</th>
<th>Hardware Platform</th>
<th>TCP/IP Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenVMS Itanium v.8.2 or later</td>
<td>HP Integrity/Itanium</td>
<td>HP TCP/IP Services V5.5 (or later)</td>
</tr>
</tbody>
</table>

Although you can successfully *install* the Rendezvous files without running TCP/IP services, the Rendezvous installation verification procedure will fail if TCP/IP services have not been started.
VMS Installation Package

The distribution DVD contains the Rendezvous software for VMS platforms, as shown in Table 8. These files are also available for download from the TIBCO web site.

Table 8  VMS Distribution Directories

<table>
<thead>
<tr>
<th>Platform</th>
<th>Hardware Platform</th>
<th>Installer Package</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenVMS Itanium v.8.2 or later</td>
<td>HP Integrity/Itanium</td>
<td>TIB_rv_8.4.0_vms82_ia64.zip</td>
<td>Does not support Java or RVDM. This package provides only 32-bit API and daemons.</td>
</tr>
</tbody>
</table>

ZIP Files

Installation packages are zipped (compressed) using the VMS free software ZIP utility. To preserve the file attributes, unzip them on a VMS computer (and not on a PC or UNIX computer).

Utilities to decompress zip files are available on the HP OpenVMS Freeware distributions, or at the HP web site:


File Attributes

When copying VMS save sets through a Windows PC or UNIX computer, the resulting files do not retain the proper file attributes. As a result, the VMS BACKUP utility cannot read them to install them.

To rectify this situation, copy the files to a computer running VMS, and use this command to restore the correct file attributes:

$ SET FILE/ATTR=(RFM:FIX,RAT:NONE,LRL:8192) TIBRV*.%
Mount the Distribution Media

Insert the Rendezvous distribution DVD into the DVD drive.

The `mount` command automatically determines that the DVD is formatted according to ISO 9660, but you must specify the record format for the backup save sets. For example:

```
$ MOUNT /MEDIA=CDROM /UNDEF=FIX:NONE:8192 /OVERRIDE=ID DVD_device
```
Check Storage Space

Table 4 approximates the space required for Rendezvous installation on VMS computers. To estimate the amount of free space required on the target device, add the figures for the components you want to install.

If the target device and the system device are not the same, then installation requires that amount of free space on both devices (the space on the system device is used for temporary storage during the installation).

Table 9  VMS Installation Size (in blocks)

<table>
<thead>
<tr>
<th>Components</th>
<th>Size (in blocks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runtime Environment</td>
<td>3500</td>
</tr>
<tr>
<td>Development Environment</td>
<td>5000</td>
</tr>
<tr>
<td>Example Source</td>
<td>500</td>
</tr>
<tr>
<td>Total</td>
<td>9000</td>
</tr>
</tbody>
</table>
Install the Rendezvous Product Software

The installation procedure requires your input. The most important items you supply are the target location for the Rendezvous files, and the environment to install (development or runtime environment).

The installation procedure takes less than 10 minutes.

**Installation Steps**

1. Create a disk directory for the installation kit.
   
   $ create/directory DKA100: [kits.rv-8-4-0]

2. Change the default directory to the root directory of the DVD drive, or transfer the installation package zip file to a disk directory and change the default directory to that directory. For example:
   
   $ set default DQA0: [000000]

3. Unzip the installation package (see ZIP Files on page 20).
   
   $ unzip installation_package -d DKA100: [kits.rv-8-4-0]

4. Retrieve and read the release notes, which are in the sys$help directory. For example, to retrieve the release notes without installing Rendezvous software, use these commands:

   $ @sys$update:vmsinstall tibrv-084 dka100: [kits.rv-8-4-0] -$_ options N

5. Install the product software. Specify the product name and directory on the command line to VMSINSTAL. For example:

   $ @sys$update:vmsinstall tibrv-8-4-08-4-0 dka100: [kits.rv-8-4-0]
Verify Installation

We recommend that you verify correct operation of Rendezvous software. You can verify installation at any time by invoking the command TIBRV:[COM]QUICK_TEST.COM.

The test procedure starts the Rendezvous daemon, starts a listening program, and sends three messages. The listening program receives the three messages and displays them on the screen or console.

Then the procedure prints a sample of correct output. Visually compare the sample with the actual results above it. If they match in all details except for process ID numbers and timestamps, then Rendezvous software is installed and operating correctly.
Daemon Privilege and Priority

**OPER**

To send multicast and broadcast messages, the Rendezvous daemon must have *OPER* privilege. Without this privilege, Rendezvous programs will not be able to create transport objects.

The best way to ensure this privilege is to install the Rendezvous daemon with *OPER* privilege. The file `TIBRV_STARTUP.COM` does this automatically.

**ALTPRI**

The Rendezvous daemon process is as an extension of the operating system’s network device driver. To avoid data loss, it must respond immediately to network I/O. To ensure immediate response, the daemon must run at elevated priority—preempting interactive users and the processes that support them.

The daemon executable always runs with *ALTPRI* privilege, which enables elevated priority. This privilege is in effect whether the daemon starts automatically or explicitly. You do not need to configure anything to set this privilege.
Starting the Rendezvous Daemon at Boot Time

You can start a permanent daemon at boot time, by adding a line to the start-up file SYS$MANAGER:SYSTARTUP_VMS.COM:

`$! This line is already present in the start-up file.
$ @SYS$STARTUP:TIBRV_STARTUP.COM
$! Add this line immediately after it.
$ @TIBRV:[com]RVD_PROC_START`

However, it is not necessary to start the Rendezvous daemon at boot time, because programs start it automatically as needed.
Parameters for rvd

This section describes VMS parameters affect Rendezvous daemon operation.

Byte Limit

High message rates consume significant space in non-paged storage.

The byte limit parameter restricts the amount of non-paged storage that a VMS process can use. If rvd fails during accept(), exceeding its byte count quota, raise this resource limit.

The Rendezvous daemon requires sufficient non-paged buffer space for messages. The actual requirement depends on the speed of the network, the network card, the processors, and the message data rate. We recommend a value of 6000000.

Boot Time

When starting the Rendezvous daemon at boot time, the SYSTEM account’s bytlm parameter controls this resource limit. To set this parameter, modify these commands appropriately:

```
$ set def sys$system
$ run authorize
UAF> mod SYSTEM /bytlm=6000000
```

Automatic Start

When programs start the Rendezvous daemon automatically, the SYSGEN parameter PQL_DBYTLM specifies this resource limit. Set an appropriate value using the AUTOGEN tool.

Total Non-Paged Storage

The SYSGEN parameters NPAGEDYN and NPAGEDYNVIR specify the total pool of non-paged storage. (In contrast, the byte limit specifies the fraction of this pool that each process may use.)

The pool begins at boot time with size NPAGEDYN, and automatically expands as needed, up to a limit of NPAGEVIR. We recommend that you monitor the pool to ensure sufficient space. For example:

```
$ show memory
$ show memory /pool /full
```

If the pool is too small, use the AUTOGEN tool to set an appropriate size.
Page File Quota

The Rendezvous daemon process requires sufficient virtual address buffer space to retain outbound messages for the duration of the reliability interval. To calculate the actual requirement, estimate the maximum number of bytes per reliability window for all Rendezvous message activity, add space for future expansion, then divide by 512 (the number of bytes per block).

(The factory default reliability interval is 60 seconds. For a complete discussion the concept of reliability, the various ways to control it, the interaction among those ways, and reasonable values, see Reliability and Message Retention Time on page 35 in TIBCO Rendezvous Administration.)

Boot Time

When starting the Rendezvous daemon at boot time, the SYSTEM account’s pgflquo parameter controls this resource limit. To set this parameter, modify these commands appropriately:

```bash
$ set def sys$system
$ run authorize
UAF> mod SYSTEM /pgflquo=1000000
```

Automatic Start

When programs start the Rendezvous daemon automatically, the SYSGEN parameter PQL_DPGFLQUOTA controls this resource limit. Set an appropriate value using the AUTOGEN tool.

Channel Count

In addition to the usual requirements for I/O channels, rvd uses I/O channels in two more ways:

- Each client connection from a network transport object consumes one channel.
- Each UDP and PGM service that those clients access consumes one channel.

The special SYSGEN parameter CHANNELCNT determines the maximum number of I/O devices that a process can access. Although most systems set a sufficiently high value, we recommend that you estimate the number of channels that rvd requires, and verify that the limit is significantly larger than your estimate. For example:

```bash
$ mc sysgen
SYSGEN> show channelcnt
```

If rvd fails during accept(), reporting invalid I/O channels, raise this resource limit using the AUTOGEN tool.
User Accounts

To run Rendezvous programs, user accounts must have netmbx and tmpmbx privileges.

Rendezvous programs accept command line arguments. To set up these arguments, each user must execute TIBRV:[COM]TIBRV_SETUP.COM. As a convenience, we recommend referencing it in each user’s login.com file.
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 on page 1 in *TIBCO Rendezvous Administration*. 

TIBCO Rendezvous Installation
This section describes an inconsistency in the behavior of the HP C++ compiler. On HP Integrity servers, version 7.3 of the C++ compiler uses a different name mangling algorithm than version 7.1 used. As a result, programs compiled using C++ compiler V7.3, cannot correctly link libraries compiled using C++ compiler V7.1.

The Rendezvous C++ library in the installation package for OpenVMS Integrity is compiled using C++ compiler V7.1. This library is not compatible with C++ compiler V7.3 on HP Integrity hardware.

If you are installing Rendezvous software on a computer where this library is incompatible, you must rebuild the library from the source code (see Rebuilding the C++ Library, below).

Rebuilding the C++ Library

Source files for the Rendezvous C++ library are located in this directory:

\texttt{TIBRV: [SRC.LIBRVCPP]}

To rebuild the library, use this command procedure:

\texttt{TIBRV: [COM]MAKE_LIBRVCPP.COM}

To recreate the Rendezvous C++ library, \texttt{TIBRV: [LIB]LIBTIBRVCPP.OLB}, do these steps:

1. Log on using the \texttt{SYSTEM} account.
2. Execute this command:

\texttt{\$ @TIBRV: [COM]MAKE_LIBRVCPP}

This procedure compiles the source modules using the system default C++ compiler, creates the object library, and copies it to the \texttt{TIBRV: [LIB]} directory.
Additional Information for VMS Programmers

Compile

On VMS platforms, Rendezvous programmers must define the C-compile command appropriately.

For the HP C compiler:

$ CC := CC/FLOAT=IEEE/IEEE_MODE=UNDERFLOW_TO_ZERO -
       /PREFIX=ALL/INCLUDE_DIRECTORY=("/tibrv/include",[])

Rendezvous programmers using C++ (CXX) must define the CXX-compile command appropriately.

For the HP C++ compiler:

$ CPP := CXX/FLOAT=IEEE/IEEE_MODE=UNDERFLOW_TO_ZERO -
         /PREFIX=ALL/WARNINGS=DISABLE=EXTRASEMI -
         /INCLUDE_DIRECTORY=("/tibrv/include",[])

Link

Rendezvous API libraries are multi-threaded, so VMS scheduler upcalls can yield significant performance improvements:

$ LINK/THREADS_ENABLE=UPCALLS

Migrating to Release 8.x

Forward Migration

In general, applications linked with shareable images migrate forward to new versions of TIBCO Rendezvous without any need to relink; they usually operate smoothly with newer shareable images.

Exception: In Rendezvous release 8.0, we reorganized the Rendezvous shareable image libraries on OpenVMS platforms, in order to resolve issues with third-party libraries. As a result, you must relink applications linked with shareable image libraries when you upgrade across this division (from 7.5.4 or earlier, to 8.0 or later, on OpenVMS).

Older Shareable Libraries

Applications that link with sharable images usually cannot run with older shareable libraries (from earlier Rendezvous releases). The reason is that new
releases can introduce new entry points, which are absent from older shareable libraries.

This incompatibility can cause problems if you link an application against a current shareable library, and then distribute it to other host computers where it runs with older shareable libraries.
Chapter 5  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.

Topics

- Requirements, page 36
- IBM i Installation Package, page 37
- Post-Installation Instructions, page 39
- Check the AAREADME File, page 41
- Review the Administrator’s Checklist, page 42
Requirements

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

IBM i does not support the PGM variant.
IBM i Installation Package

This procedure installs the Rendezvous software.

1. Locate the appropriate installer package for your platform, as listed in Table 10. (For the latest changes, see the readme.txt file.)

Table 10  IBM i Distribution Directories

<table>
<thead>
<tr>
<th>Platform</th>
<th>Installer Package</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM i</td>
<td>TIB_rv_8.4.0_ibmi_power.zip</td>
<td>Does not support RVDM.</td>
</tr>
</tbody>
</table>

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:
   a. Login as QSECOFR.
   b. Create a save file on your IBM i system called TIBRV. Use the command CRTSAVF to do this.
   c. Copy the save file (TIBRV.SAV) from the temporary (unzip) directory to the save file you created in step b.

4. If another version of TIBCO Rendezvous is installed on your system, you must uninstall it before installing this version.
   a. Ensure that no TIBCO Rendezvous programs are running, and that TIBRV is not in any user’s library list.
   b. Use this command to uninstall:
      
      DTLICPGM LICPGM(2TIBRV2) RLS(*ALL)
      
   c. Remove files from the Integrated File System (IFS).
      
      Execute this command from the Command Entry screen:
      
      QSH CMD('rm -rf /usr/tibco/tibrv')

5. Install using the command RSTLICPGM as follows:

   RSTLICPGM LICPGM(2TIBRV2) DEV(*SAVF) SAVF(libname/TIBRV)

   *libname* is the library where you created the save file, in step 3b.
6. To use Java, or to run or develop in the qsh environment, do this step after RSTLICPGM completes:

a. Create a tibco directory in /usr (if it doesn't exist already).

   CRTDIR ('/usr/tibco/tibrv')

b. Restore the file containing the Java files and the IFS file structure.

   RST DEV('/qsys.lib/tibrv.lib/tibrvifsfl.file')
   OBJ('('/usr/tibco/tibrv/*'))

This command restores files to be placed in the Integrated File System in the directory /usr/tibco, and places the .jar files for Java support in /usr/tibco/tibrv/lib. It also creates symbolic links back to the installed programs, service programs and source files so that you can run and develop programs in qsh as you would in a UNIX or Windows environment.

Figure 1  IBM i: Beginning the Installation

<table>
<thead>
<tr>
<th>Restore Licensed Program (RSTLICPGM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type choices, press Enter.</td>
</tr>
<tr>
<td><strong>Product</strong> .. &gt; 2TIBRV2 Character value</td>
</tr>
<tr>
<td><strong>Device</strong> .. &gt; *SAVF Name, *SAVF + for more values</td>
</tr>
<tr>
<td><strong>Optional part to be restored</strong> .. *BASE *BASE, 1, 2, 3, 4, 5, 6,7...</td>
</tr>
<tr>
<td><strong>Type of object to be restored</strong> .. *ALL *ALL, *PGM, *LNG</td>
</tr>
<tr>
<td><strong>Language for licensed program</strong> .. *PRIMARY Character value, *PRIMARY...</td>
</tr>
<tr>
<td><strong>Output</strong> .. .. *NONE *NONE, *PRINT</td>
</tr>
<tr>
<td><strong>Release</strong> .. .. *FIRST Character value, *FIRST</td>
</tr>
<tr>
<td><strong>Replace release</strong> .. .. *ONLY Character value, *ONLY, *NO</td>
</tr>
<tr>
<td><strong>Save file</strong> .. .. TIBRV Name</td>
</tr>
<tr>
<td><strong>Library</strong> .. .. QTEMP Name, *LIBL, *CURLIB</td>
</tr>
</tbody>
</table>

More...

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel  F13=How to use this display  F24=More keys
1. The initial library list must contain the Rendezvous library (TIBRV 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.

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/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).

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/lib/tibrvj.jar')
```

Whether you set the variables manually or automatically, their values persist 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.

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.

7. When you receive a license ticket file from TIBCO, do these steps:
   a. Create a new source physical file named TIBRV in one of your libraries.
   b. Put the license ticket file in a member of that file named TKT. (This prevents accidental removal of the ticket files when you next upgrade Rendezvous.)
   c. Ensure that the library containing the ticket file is in the library list. Rendezvous searches for TIBRV(TKT) in your library list, and uses the first license file that it finds.
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 on page 1 in *TIBCO Rendezvous Administration*. 
This chapter presents installation and uninstallation using TIBCO Universal Installer.

**Topics**

- Before Installing, page 44
- Install TIBCO Rendezvous, page 46
- Uninstalling TIBCO Software, page 53
Before Installing

Destination Directory

If you are upgrading from Rendezvous 7.x (or earlier) or from any version of Rendezvous installed as part of TRA, read this section.

The installers for Rendezvous 7.x (and earlier) installed the product into a destination root directory defined by the TIBCO Runtime Environment (TRA) environment. In contrast, the TIBCO Universal Installer installs into a destination root directory defined by previous invocations of the Universal Installer. That is, if you already installed another product using TIBCO Universal Installer, then the destination root directory for that product becomes the destination root for all subsequent products that use the Universal Installer.

In particular, installing Rendezvous 8 after an existing TRA leaves two versions of Rendezvous in separate locations—the old version (installed with TRA) and the new version. Other TIBCO products that depend on TRA use Rendezvous daemons from the new version, but continue to use Rendezvous libraries from the old version.

Installer Account

Microsoft Windows

You must have administrator privileges to install TIBCO Rendezvous. 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.

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.

UNIX

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

A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.
Installer Log File

The installer writes its log file to the User_Home/.TIBCO directory. For example, on Windows, the installer writes its log to the C: \Documents and Settings\user-name\.TIBCO directory.

Disk Space

Temporary Disk Space Required by the Installer

When a TIBCO Rendezvous package is unpacked, it is extracted into a temporary folder. The installer requires at least 250 MB of free space in the temporary directory. On Microsoft Windows, the temporary directory location is %SystemDrive%: \Documents and Settings\user_name\Local Settings\Temp.

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

TIBCOUniversalInstaller -is:tempdir \new_tmp

where \new_tmp has sufficient free 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.

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

Disk Space After Installation

TIBCO Rendezvous can consume 500 MB of free space under TIBCO_HOME.
Installs TIBCO Rendezvous

Install a TIBCO Rendezvous product using one of the following modes:

- Install in GUI Mode on page 46
- Install in Console Mode on page 51
- Install in Silent Mode on page 52

Install in GUI Mode

To install TIBCO Rendezvous using GUI mode, do these steps.

1. Open the physical media or download the TIBCO Rendezvous product package.
2. Extract the TIBCO Rendezvous product archive file to a temporary directory.
3. Navigate to the temporary directory that contains the universal installer.
4. Run TIBCO Universal Installer (the executable file name is platform specific).
5. The Welcome screen appears. Click Next.
6. The License Agreement screen appears. After reading through the license text, click **I accept the terms of the license agreement** and then click **Next**.
7. Install all features by clicking **Typical** or choose the features to install by selecting **Customize Installation**. After making your choice, click **Next**.
8. If you selected Customize Installation, in step 7, you may unselect check boxes corresponding to features you do not want to install. Click Next to continue. (If you did not select Custom, proceed to step 10.)

10. The installer prepares the features for installation. A pre-install summary screen appears. Click **Install**.

   The installer copies files to the *TIBCO_HOME* directory.
11. Select the TIBCO Rendezvous daemon variant for this installation. Select either TRDP or PGM (for background information, see PGM and TRDP on page 18 in TIBCO Rendezvous Concepts). Click **Next**.

12. A post-install report summarizes the installation results. Click **Finish** to close the installer window.

### Install in Console Mode

The following procedure explains how to install the software in console mode.

1. Open the physical media or download the TIBCO Rendezvous package.
2. Extract the TIBCO Rendezvous archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Run the installer using this command line:
   ```
   TIBCOUniversalInstaller -console
   ```
5. Complete the installation by responding to the console window prompts.
Install in Silent Mode

The following procedure explains how to install a TIBCO Rendezvous product in silent mode. The TIBCOUniversalInstaller.silent file is packaged in the directory that contains the universal installer. You must edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set.

While you can use the TIBCOUniversalInstaller.silent file, it is good practice to copy the file to a different name and edit that file for the silent install.

If errors occur during installation, they will be listed in the installation log file (see the User_Home/.TIBCO directory).

1. Open the physical media or download the TIBCO Rendezvous product package.
2. Extract the TIBCO Rendezvous product archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Copy the TIBCOUniversalInstaller.silent file and rename the copy.
5. Using a text editor, open the copied file and update the install location, and features to install.
6. Run the installer using this command line:

   TIBCOUniversalInstaller -silent -V responseFile="myFile.silent"

   If you are using the TIBCOUniversalInstaller.silent file (rather than a copy), you need not supply the file name and can use this command line:

   TIBCOUniversalInstaller -silent

   A line similar to the following is written to the installer log file when installation completes:

   ... Install, com.tibco.installer.util.TIBCOInstaller, dbg.Debug, Executing Event:::OnEndInstall

Windows Platforms Only

Installation batch scripts (*.bat) on Windows platforms must invoke the TIBCO Universal Installer using the CALL command; for example:

   CALL .\TIBCOUniversalInstaller -silent args
Uninstalling TIBCO Software

Uninstall in GUI Mode

To uninstall the software:

1. Run the uninstaller:
   b. Run the platform-specific installer executable.

2. Select Uninstall Products From Selected TIBCO Home Location, then click Next.

3. The wizard provides uninstall options:
   — Custom Uninstall (select TIBCO products to uninstall)
   — Typical Uninstall (uninstall all TIBCO products)

   Select either option, then click Next.

4. If you selected Custom Uninstall, select the checkboxes for products to uninstall, then click Next.

5. The Pre-Uninstall Summary displays. Click Uninstall.

   When uninstalling, a popup window displays asking to clean up the /tools directory. Click Yes, clean it up.

6. The summary screen appears. Click Finish to exit the uninstall wizard. After uninstalling the software, the installer may prompt you to restart your computer.

7. If you selected Typical Uninstall (uninstalling all TIBCO products) then manually delete the directories under TIBCO_HOME.

Uninstall in Silent Mode

Silent uninstall is no longer supported in this version of the universal installer.
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