Rational Test Control Panel

IBM®

Installation Guide

Version 8.0.1

Note

Before using this information and the product it supports, read the information in "Notices" on page 20.

This edition applies to version 8.0.1 of Rational Test Control Panel and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this Publication

Contents

This guide describes how to install and configure IBM® Rational® Test Control Panel.

Intended Audience

This document is intended for users who understand how to install commercial software on Microsoft Windows and Linux- and UNIX-based operating systems.

Scope

This document describes how to install and configure Rational Test Control Panel.

For information about using Rational Test Control Panel, refer to *IBM Rational Test Control Panel System Administration Guide* and *IBM Rational Test Virtualization Server Reference Guide*.

For information about using the proxies in the Rational Integration Tester Platform Pack, refer to *IBM Rational Test Virtualization Server Reference Guide*, *IBM Rational Integration Tester Reference Guide*, *IBM Rational Integration Tester Reference Guide for HTTP & Web Services*, and *IBM Rational Integration Tester Reference Guide for TCP/UDP Sockets*.

Typographical Conventions

The following typographical conventions are observed throughout this document:

Type	Usage
`Constant Width`	Program output, listings of code examples, file names, commands, options, configuration file parameters, and literal programming elements in running text.
Italic	Document title names in statements that refer you to other documents. Also used to highlight concepts when first introduced.
Bold	Menu items in graphical user interface windows (such as Microsoft Windows-based or UNIX X Window applications) from which you select options or execute macros and functions. Submenus and options of a menu item are indicated with a "greater than" sign, such as **Menu > Submenu** or **Menu > Option**.

Contacting IBM Support

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Before Installing Rational Test Control Panel

Contents

This chapter describes the hardware, software, and installation planning requirements of Rational Test Control Panel.

1.1 Hardware Requirements

The following table describes the hardware requirements of Rational Test Control Panel.

Requirement	Description
Free Disk Space	200 MB (Basic installation) **NOTE:** Published stubs will be stored on the computer where Rational Test Control Panel is installed, so long-term disk space requirements will depend on the size and number of published stubs.
Physical RAM	1 GB

1.2 Software Requirements

The following table describes the software requirements of Rational Test Control Panel.

Requirement	Supported Options
Operating System	• Microsoft Windows 2000, Windows Server 2003, Windows Server 2008, Windows XP, Windows Vista, or Windows 7 • Oracle Solaris 8 (or later) • Red Hat Enterprise Linux v4 • IBM AIX® versions 4.33, 5.1, 5.2, and 5.3
Java Runtime Environment (JRE)	Version 1.7
Web Browser	Any web browser that supports the Google Web Toolkit (GWT). For example, the most recent versions of Google Chrome, Microsoft Internet Explorer, or Mozilla Firefox.

1.3 Installation Planning

Rational Test Control Panel has a simple security model. The features available within Rational Test Control Panel depend on the security model chosen during installation (for information about this, refer to *IBM Rational Test Control Panel System Administration Guide*).

The following table describes the security model options supported by Rational Test Control Panel.

Security Model Option	Description
Active Directory	Rational Test Control Panel will use one or more Active Directory servers to authenticate the user name and password provided by each user. This enable users to use their Windows domain user names to log into Rational Test Control Panel. However, Rational Test Control Panel does not store or maintain any user name and password information itself. You must create two Active Directory groups: • Rational Test Control Panel "normal" users who are allowed to log into Rational Test Control Panel. • Rational Test Control Panel administrators. Active Directory users must be put into these Active Directory groups and the names of these two groups must be specified in the fields provided on the Rational Test Control Panel Security Configuration screen in the Rational Test Control Panel installation program.
Local Directory Access Protocol (LDAP)	This is similar to the Active Directory security model option but it allows authentication against a single LDAP server. However, the basic approach of having two groups defined for user and administrators is the same.
Rational Test Control Panel Built-in	User names and passwords are managed by the Rational Test Control Panel and each user will be required to enter a user name and password to log in. Thus only authenticated users can control the Rational Test Virtualization Server environment. In addition, users who are identified as administrators can create other users. However, you must enter a user name and password for the first user, who will be created as an administrator. After Rational Test Control Panel is installed, you can log in as the administrator user and create additional users (for information about this, refer to *IBM Rational Test Virtualization Server Reference Guide*).

Security Model Option	Description
None	There is no user authentication. Users are not required to log in (by using a user name and password), which means that anyone who knows the Rational Test Control Panel URL can control, say, the Rational Test Virtualization Server environment.

Therefore, before installing Rational Test Control Panel, it is important to consider whether and how you want Rational Test Control Panel to authenticate users:

- If you want to use either Active Directory or LDAP, you will need the assistance of an Active Directory/LDAP administrator in your organization.

- If your organization does not have any Active Directory or LDAP servers or if you are unsure about the configuration details of any such servers in your organization, you can use the Rational Test Control Panel Built-in authentication-type.

Installing Rational Test Control Panel

Contents

This chapter describes how to install Rational Test Control Panel on Microsoft Windows and Linux/Unix systems.

3.1   Installing on Windows or Linux/Unix

You can install Rational Test Control Panel as part of either of the following offerings:

- IBM Rational Test Workbench

- IBM Rational Test Virtualization Server

For information about installing these offerings, refer to the Rational Test Workbench or Rational Test Virtualization Server installation guide in the launchpad documentation folder on the Setup disk.

The Setup disk includes the launchpad program, which provides you with a single location to start the installation process.

Use the launchpad program to start the installation of software in these cases:

- Installing from product CDs

- Installing from an electronic image on your local file system

- Installing from an electronic image on a shared drive

For products that are installed by Installation Manager for the Rational Software Delivery Platform, starting the installation process from the launchpad program causes Installation Manager to be automatically installed if it is not already on your computer. Furthermore, the installation process is already configured with the location of the repository that contains the installation package. If you install Installation Manager separately, you must configure the repository preferences manually. Also, you can start the installation of a number of supporting software items from the launchpad.

3.1.1   Starting the Launchpad

To install the product, start the launchpad program.

Depending on the source of the product installation, follow one of these procedures to start the launchpad program.

If you are installing from the CDs, complete these steps:

1. Insert the Setup CD into your CD drive.

2. On Linux/Unix, mount the CD drive

3. If autorun is enabled on your computer, the launchpad program starts automatically. If the launchpad does not start automatically, complete one of these steps:

- On Windows, run the `launchpad.exe` command, which is located in the root directory of the CD.

- On Linux/Unix, run the `launchpad.sh` file, which is located in the root directory of the CD.

If you are installing from electronic disks that you downloaded from IBM Passport Advantage®, open a command line, and change to the directory where you extracted the disk images; and then at the command prompt, complete one of these steps:

For the Rational Test Workbench offering:

- On Windows, enter **RTW_SETUP\launchpad.exe**.

- On Linux/Unix, enter **RTW_SETUP/launchpad.sh**.

For the Rational Test Virtualization Server offering:

- On Windows, enter **RTVS_SETUP\launchpad.exe**.

- On Linux/Unix, enter **RTVS_SETUP/launchpad.sh**.

The launchpad program starts.

3.1.2 Starting Installation from the Setup Disk

To install Rational Test Control Panel as a non-administrator, you must manually run the userinst program from the Setup disk instead of running the launchpad program. Running the userinst program provides the same functions as starting the product installation from the launchpad.

Depending on the source of your product installation, complete one of these procedures to install the product.

If you are installing from the CDs, follow these steps:

1. Insert the Setup CD into your CD drive.

2. On Linux/Unix, mount the CD drive.

3. If autorun is enabled on your computer, the launchpad program starts automatically. Stop the launchpad program.

4. In a command line, change to the root of the Setup disk, and complete one of these steps:

- On Windows, as an administrator, enter **InstallerImage_win32\install.exe**.

- On Windows, as a non-administrator enter **InstallerImage_win32\userinst.exe**.

- On Linux/Unix, as a non administrator, enter **InstallerImage_linux/install**.

- On Linux/Unix, as an administrator, enter **InstallerImage_linux/userinst**.

If you are installing from electronic disks that you downloaded from Passport Advantage, open a command line, and change to the directory where you extracted the disk images; then complete one of these steps:

For the Rational Test Workbench offering:

- On Windows, as an administrator, enter **RTW_SETUP\InstallerImage_win32\install.exe**.

- On Windows, as a non-administrator, enter **RTW_SETUP\InstallerImage_win32\userinst.exe**.

- On Linux/Unix, as an administrator, enter **RTW_SETUP/InstallerImage_linux/install**.

- On Linux/Unix, as a non administrator, enter **RTW_SETUP/InstallerImage_linux/userinst**.

For the Rational Test Virtualization Server offering:

- On Windows, as an administrator, enter **RTVS_SETUP\InstallerImage_win32\install.exe**.

- On Windows, as a non-administrator, enter **RTVS_SETUP\InstallerImage_win32\userinst.exe**.

- On Linux/Unix, as an administrator, enter **RTVS_SETUP/InstallerImage_linux/install**.

- On Linux/Unix, as a non administrator, enter **RTVS_SETUP/InstallerImage_linux/userinst**.

When the userinst or install program starts, Installation Manager is installed if it is not already on your computer. Furthermore, Installation Manager is configured with the location of the repository (installation files) for IBM Rational Test Control Panel.

3.1.3 Installing the Product Software

By starting the installation process from the launchpad program, Installation Manager is automatically installed if it is not already on your computer, and it starts preconfigured with the location of the repository that contains the product package. If you install and start Installation Manager directly, you must set repository preferences manually.

To learn how to install the product from a command prompt in silent mode, see the Installing Silently section of the Installation Manager Information Center.

To install the product from the launchpad:

1. If you are installing from compressed files, such as .zip or ISO files, extract the files into a common directory. Extract the disk images to directories that are named **/disk1**, **/disk2**, and so on.

    For the Rational Test Workbench offering:

    *   Extract the Setup disk image to a directory that is named **RTW_SETUP**. The Setup disk contains the launchpad program.

    For the Rational Test Virtualization Server offering:

    *   Extract the Setup disk image to a directory that is named **RTVS_SETUP**. The Setup disk contains the launchpad program.

2. If you are installing from a CD, insert the first product disk into your CD drive. If autorun is enabled on your workstation, then the launchpad starts automatically. Otherwise, start the launchpad program manually.

    *   On Windows, run the launchpad.exe command, which is located in the root directory of the Setup disk installation image.

    *   On Linux/Unix, run the `launchpad.sh` command, which is located in the root directory of the Setup disk installation image.

3. **Optional:** Select a language in which to run the launchpad and Installation Manager.

4. Select the product to install from the launchpad menu. The Install Packages window opens.

5. Click a product package to highlight it. The description of the package is displayed in the Details pane at the bottom of the screen.

6. To search for updates to the product packages, click **Check for Other Versions, Fixes, and Extensions**. If updates for a product package are found, then they are displayed in the Installation Packages list on the Install Packages page below their corresponding products. Only recommended updates are displayed by default.

NOTE: To ensure the best performance of the installation, and the products after they are installed, install the product updates.

- To view all updates that are found for the available packages, click **Show all versions**.

- To display a package description in the Details pane, click the package name. If additional information about the package is available, such as a readme file or release notes, a More info link is included at the end of the description text. Click the link to display the additional information in a browser. To fully understand the package that you are installing, review all information.

NOTE: For Installation Manager to search the predefined IBM update repository locations for the installed packages, the Search the linked repositories during installation and updates preference on the Repositories preference page must be selected. This preference is selected by default. Internet access is also required. A progress indicator shows that the search is taking place. You can install updates at the same time that you install the base product package.

7. Select the product package and any updates to the package to install.

- Updates that have dependencies are automatically selected and cleared together.

- Click **Next** to continue.

NOTE: You might see the error, "Packages IBM Rational *product name and version* and IBM Rational *product name and version* cannot coexist in the same package group." To resolve this error, search for updates to the product packages by clicking **Check for Other Versions, Fixes, and Extensions** and install them. If updates for a product package are found, they are displayed in the Installation Packages list on the Install Packages page below their corresponding products. Only recommended updates are displayed by default. If you install multiple packages at the same time, then all the packages are installed into the same package group. If you install multiple packages at the same time, then all the packages are installed into the same package group.

8. On the Licenses page, read the license agreement for the selected package. If you selected more than one package to install, there might be a license agreement for each package. On the left side of the License page, click each package version to display its license agreement. The package versions that you selected to install (for example, the base package and an update) are listed under the package name.

- If you agree to the terms of all of the license agreements, click **I accept the terms in the license agreement**.

- Click **Next** to continue.

9. On the Location page:

  - Create a new package group into which the product package will be installed. Alternatively, if you are installing an update, use the existing package group. A package group represents a directory in which packages share resources with other packages in the same group.

  - **Optional:** If you are installing the package on a computer that is running a 64-bit operating system, you can install the 32-bit version or the 64-bit (default) version of the package.

  - **Optional:** Click **Browse** to change the location of the installation if desired. The default location displayed depends on whether you are using a 32-bit or 64-bit operating system and whether you have chosen to install the 32-bit or the 64-bit version of the package.

  - Click **Next** to continue.

10. On the Features page, select the package features to install.

  - **Optional:** If you are installing the package on Windows, you can choose whether a Windows service called **IBM RTCP** is installed and whether you want this service to run automatically when Windows is started. The service is run under the Local System account, which is a predefined local account used by the Windows Service Control Manager that provides a Windows service with complete unrestricted access to local resources. If you want the **IBM RTCP** Windows service to run under a different account (for example, a Domain User Account), use Windows Control Panel to make any necessary changes.

  - **Optional:** To see the dependency relationships between features, select **Show dependencies**. Installation Manager automatically enforces any dependencies with other features and displays updated download sizes and disk space requirements for the installation.

  - **Optional:** Click a feature to view its brief description under **Details**.

  - Click **Next** to continue.

11. On the Configuration page:

  - **Optional:** If you want to change the default port number (7819) where Rational Test Control Panel will listen for all communications, enter a new port number in the **Network Port** field.

- **Optional:** Click **Browse** to change the default location of the Rational Test Control Panel workspace, which is used for storing published subs, audit and activity logs, and user information.

- **Optional:** In the **Default Domain** field, enter the name of a domain. To enable the publishing of stubs, Rational Test Control Panel requires at least one domain. You can create an initial domain while installing the package. Alternatively, if you have not yet decided the number and the names of the domains that you will need, you can use Rational Test Control Panel (after it is installed) or Rational Integration Tester (if it installed) to add one or more domains.

- Click **Next** to continue. Installation Manager will verify that the selected port in the **Network Port** field is not already in use. If it is already in use, you will need to enter a different port number.

12. On the Summary page, review your choices before installing the product package.

- To change the choices that you made on previous pages, click **Back**, and make your changes.

- When you are satisfied with your installation choices, click **Install** to install the package. A progress indicator shows the percentage of the installation that is completed.

13. While the package is being installed, the Rational Test Control Panel Security Configuration screen is displayed.

- For information about authentication-types, refer to Installation Planning.

- After selecting an authentication-type and entering any required information, click **Done**.

- You can change the security settings at any time after installing the package. (For information about this, refer to Modifying RTCP Security Model Settings After Installation.)

14. When the installation process is complete, a message confirms the completion of the process.

- Click **View Log File** to open the installation log file for the current session in a new window. You must close the Installation Log window to continue.

- Click **Finish** to start the selected package. The Install Package wizard closes and you are returned to the launchpad program.

15. To complete installing and configuring the package, refer to After Installing Rational Test Control Panel.

After Installing Rational Test Control Panel

Contents

This describes to configure Rational Test Control Panel and related software after Rational Test Control Panel is installed.

4.1　Registering RIT Proxies With RTCP

Before any of the proxies in the Rational Integration Tester Platform Pack can be used with Rational Test Control Panel to record or route traffic, they must be configured to register with Rational Test Control Panel. For information about this, refer to *IBM Rational Integration Tester Platform Pack Installation Guide.*

4.2　Registering RIT Agents With RTCP

In Rational Test Virtualization Server, Rational Test Control Panel runs stubs on agents. Agents can also be used to run scheduled tests.

During the installation of Rational Integration Tester Agent, the agent is configured to register with Rational Test Control Panel instances so that they are available for stubs and/or running scheduled tests. (For information about installing Rational Integration Tester Agent, refer to *IBM Rational Integration Tester Agent Installation Guide.*)

However, after the installation of the Rational Integration Tester Agent, if wish to change the configuration of the agent (for example, you may need to change the URL of the Rational Test Control Panel instance with which the agent is registered), you must edit the `Agent.config` file manually after installation.

NOTE:　An agent can be registered with only one Rational Test Control Panel instance at any given time.

NOTE:　The settings in the `Agent.config` file are used regardless of whether the agent is run from a command prompt or as a service.

To register an agent with Rational Test Control Panel:

1.　Using a text editor program, open the `Agent.config` file, which is in `<Rational Integration Tester Installation Directory>\config`.

2.　Find the Rational Test Control Panel properties at the end of the file:

```
        </GHServer>
        <GHServer enabled="false">
                <jmxPort value="8765"/>
                <ghServerURL value="http://localhost:7819/RTCP" />
        <!--
                <domains>
                        <domain name="testDomain">
                                <environment name="testEnvironment"/>
                        </domain>
                </domains>
                -->
        </GHServer>
```

3. Set the `enabled` attribute to `true`.

4. Set the `jmxPort` and `ghServerURL` values as desired.

    NOTE: The `jmxPort` is used for internal agent communication and, in
                normal use, it would need to be changed only if the default
                configuration port is already in use on the computer where the agent
                is installed.

    NOTE: The server URL should not end with a forward slash (/).

5. If you wish to restrict this agent so that it is available only for specific domains and
    environments, uncomment the `<domains>` block and enter one or more domains and
    environments.

    NOTE: Each environment name value must end with a forward slash (/).
                Otherwise, the XML will be invalid and agent may not start.

    NOTE: If you do not restrict the agent, the default `Agent.config` file will
                make the agent available for running stubs in **all** domains and
                environments managed by Rational Test Control Panel.

6. Save and close the file.

7. If the agent was running while the `Agent.config` file was being modified, restart it
    to enable the changes that you have made to take effect.

8. To determine if the Rational Integration Tester Agent (and Rational Integration
    Tester proxies) are registered correctly, log into Rational Test Control Panel as an
    administrator and open the **Agents** page. A list of registered agents (and proxies) will
    be displayed.

Rational Test Control Panel "heartbeats" with Rational Integration Teste Agents and Rational Integration Tester proxies, so Rational Test Control Panel is aware if they stop running, and the agent and proxies are aware if Rational Test Control Panel stops running. The agent/ proxy logs and Rational Test Control Panel's **Agents** page will indicate this if it happens. The environment will recover itself when the agent/ proxy or Rational Test Control Panel restarts. For example, if an environment is running with two or more Rational Integration Agents and two or more Rational Integration Tester proxies, and Rational Test Control Panel is restarted, the agents and proxies will register automatically when Rational Test Control Panel restarts, so they do not need to have to be restarted manually.

4.3 Installing Microsoft SQL Server and MySQL Drivers

Unlike Oracle, Microsoft SQL Server and MySQL drivers are not supplied with Rational Test Control Panel. Therefore, if you want to use SQL Server or MySQL with Rational Test Control Panel, you will need to put a suitable SQL Server or MySQL driver in `<Rational Test Control Panel Installation Directory>\webapps\RTCP\WEB-INF\lib`.

If you have already installed Rational Test Control Panel, you will need to restart Rational Test Control Panel's Windows service and the Rational Test Control Panel application to enable the database driver changes that you have made to take effect.

4.4 Modifying RTCP Security Model Settings After Installation

Before installing Rational Test Control Panel, it is a good idea to consider whether and how Rational Test Control Panel users will be authenticated during login (for information about this, refer to Installation Planning).

However, before and during installation of Rational Test Control Panel, you may be unsure of security model requirements, or you may have insufficient information to enable you to configure (fully) your chosen security model option.

After installation, Rational Test Control Panel provides administrators with the means to modify Rational Test Control Panel security settings without having to reinstall the software.

To modify Rational Test Control Panel security model settings after installation:

1. Run IBM Installation Manager.

2. On the IBM Installation Manager application window, click **Modify**.

The first screen of the Modify Packages wizard is displayed.

3. Click **IBM Rational Test Control Panel**.

4. Click **Next**.

    The second screen of the Modify Packages wizard is displayed.

5. Click **Next**.

6. The third screen of the Modify Packages wizard is displayed.

7. In the **Authentication Type** list, click the security model that you wan to use.

8. Depending on the security model selected, you may have to enter a user name and a password or other login details in the fields provided.

9. Click **Next**.

    The fourth screen of the Modify Packages wizard is displayed.

10. Click **Modify**.

    The fifth screen of the Modify Packages wizard is displayed.

11. Click **Finish**.

4.5   Upgrading RTCP Installations

To upgrade a Rational Test Control Panel installation:

1. Run IBM Installation Manager.

2. On the IBM Installation Manager application window, click **Update**.

    The first screen of the Update Packages wizard is displayed.

3. Click **IBM Rational Test Control Panel**.

4. Click **Next**.

    The second screen of the Update Packages wizard is displayed. The most recent version of Rational Test Control Panel found by IBM Installation Manager is listed and selected.

    Alternatively, if IBM Installation Manager cannot find any updates, an error message is displayed.

5. Click **Next**.

    The third screen of the Update Packages wizard displays the license agreements.

6. Click the **I accept the terms in the license agreement** option button.

7. Click **Next**.

   The fourth screen of the Update Packages wizard is displayed.

8. Click **Next**.

   The fifth screen of the Update Packages wizard is displayed.

9. Click **Update**.

   The sixth screen of the Update Packages wizard is displayed.

   After IBM Installation Manager completes installing the software, the seventh screen of the Update Packages wizard is displayed.

10. Click **Finish**.

Glossary

The following table below lists some of the key terms used in this document, and provides a description of each.

Term	Description
Proxy	A proxy server is a server (a computer system or an application) that acts as an intermediary for requests from clients seeking resources from other servers.
Server	A host computer on a network shared by more than one user.

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