# IBM Rational Change for HP Quality Center Interface User Guide

Release 3.7

Before using this information, be sure to read the general information under Appendix A, "Notices" on page .

This edition applies to **IBM Rational Change for HP Quality Center Interface 3.7** (product number 5724V87) and to all subsequent releases and modifications until otherwise indicated in new editions.

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### Introduction

Welcome to the IBM Rational<sup>®</sup> Change for HP Quality Center Interface<sup>™</sup> 3.7.

The IBM Rational Change for HP Quality Center Interface organizes the transfer of defect data between HP Quality Center and IBM Rational<sup>®</sup> Change<sup>™</sup>, enabling you to manage project defects using the most suitable tool for your needs.

For example, if the development team uses IBM Rational Change and the quality assurance team uses HP Quality Center, the IBM Rational Change for HP Quality Center Interface enables the teams to integrate their projects so that they are both working with the same data. This means that the quality assurance team can use one tool to handle the testing process, while the development team can use its preferred change management tool.

The IBM Rational Change for HP Quality Center Interface employs multiple transfer options to satisfy varying user needs. This enables users to create defects that do not yet exist in the receiving tool, or update existing defects.

You begin working with the IBM Rational Change for HP Quality Center Interface by creating a synchronization link in IBM Rational Change for HP Quality Center Interface. When you create a synchronization link, you define and configure the data to be transferred between a change request entity in a IBM Rational Change database and a defect entity in a HP Quality Center project.

After you create a synchronization link, you can work with your defects in HP Quality Center or in IBM Rational Change, as required. You can also run the synchronization as a service. The service synchronizes your links automatically, according to predetermined time intervals.

## Using this guide

This guide contains the following chapters:

- Chapter 1 What's New in IBM Rational Change for HP Quality Center Interface This chapter describes the new features available in this version of integration.
- **Chapter 2** Installing the IBM Rational Change for HP Quality Center Interface This chapter describes how to install the IBM Rational Change for HP Quality Center Interface 3.7.

#### Chapter 3 Integration strategies This chapter describes the IBM Rational Change for HP Quality Center Interface 3.7 concepts and data mapping between HP Quality Center and IBM Rational Change.

- Chapter 4 HP Quality Center project & IBM Rational Change process setup This chapter describes how to prepare your HP Quality Center projects and process to use this integration.
- Chapter 5 Creating links between HP Quality Center and IBM Rational Change This chapter describes how to create a new link between a HP Quality Center project and a IBM Rational Change database. This chapter also describes how to delete an existing link and how to update an existing link.

# Chapter 6Working with the IBM Rational Change for HP Quality CenterInterfaceThis chapter describes how to run the Synchronization task, either<br/>manually or as a service. It also explains how to migrate defects from IBM

#### **Documentation Updates for HP Quality Center**

Rational Change.

HP is continuously updating its product documentation with new information. You can download the latest version of HP Quality Center documentation from the HP Customer Support Web site at <u>http://support.openview.hp.com</u>.

#### Assumptions about your background

This document assumes that you have a basic understanding of how to use HP Quality Center and IBM Rational Change.

#### **Typographical conventions**

This document uses the following typographical conventions:

#### Typefaces and symbols

Typeface	Description
Italic	Used for book titles and terminology. Also
	designates names of roles (developer), states
	(working), groups (ccm_root), and users (laura).
Bold	Used for items that you can select, such as buttons, icons, etc., and menu paths. Also used for the names of dialog boxes, dialog box options, toolbars, folders, baselines, databases, releases, properties, and types. Also used for emphasis.
Courier	Used for commands, filenames, and directory paths. Represents command syntax to be entered verbatim. Signifies computer output that displays on-screen.
Courier Italic	Represents values in a command string that you supply. For example, (drive:\username\commands).

# **Contacting IBM Rational Software Support**

If the self-help resources have not provided a resolution to your problem, you can contact IBM® Rational® Software Support for assistance in resolving product issues.

**Note:** If you are a heritage Telelogic customer, a single reference site for all support resources is located at <u>http://www.ibm.com/software/rational/support/telelogic/</u>

#### Prerequisites

To submit your problem to IBM Rational Software Support, you must have an active Passport Advantage® software maintenance agreement. Passport Advantage is the IBM comprehensive software licensing and software maintenance (product upgrades and technical support) offering. You can enroll online in Passport Advantage from <a href="http://www.ibm.com/software/lotus/passportadvantage/howtoenroll.html">http://www.ibm.com/software/lotus/passportadvantage/howtoenroll.html</a>

- To learn more about Passport Advantage, visit the Passport Advantage FAQs at <a href="http://www.ibm.com/software/lotus/passportadvantage/brochures\_faqs\_quickguid\_es.html">http://www.ibm.com/software/lotus/passportadvantage/brochures\_faqs\_quickguid\_es.html</a>.
- For further assistance, contact your IBM representative.

To submit your problem online (from the IBM Web site) to IBM Rational Software Support, you must additionally:

- Be a registered user on the IBM Rational Software Support Web site. For details about registering, go to <a href="http://www.ibm.com/software/support/">http://www.ibm.com/software/support/</a>.
- Be listed as an authorized caller in the service request tool.

#### Submitting problems

To submit your problem to IBM Rational Software Support:

1. Determine the business impact of your problem. When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting.

SeverityDescription1The problem has a *critical* business impact: You are<br/>unable to use the program, resulting in a critical impact<br/>on operations. This condition requires an immediate

Use the following table to determine the severity level.

	solution.
n	This problem has a significant business impact: The
2	program is usable, but it is severely limited.
	The problem has <i>some</i> business impact: The program is
3	usable, but less significant features (not critical to
	operations) are unavailable.
	The problem has <i>minimal</i> business impact: The
4	problem causes little impact on operations or a
	reasonable circumvention to the problem was
	implemented.

- 2. Describe your problem and gather background information. When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Rational Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:
  - What software versions were you running when the problem occurred? To determine the exact product name and version, use the option applicable to you:
    - Start the IBM Installation Manager and select File > View Installed Packages. Expand a package group and select a package to see the package name and version number.
    - Start your product, and click **Help** > **About** to see the offering name and version number.
  - What is your operating system and version number (including any service packs or patches)?
  - Do you have logs, traces, and messages that are related to the problem symptoms?
  - Can you recreate the problem? If so, what steps do you perform to recreate the problem?
  - Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, or other system components?
  - Are you currently using a workaround for the problem? If so, be prepared to describe the workaround when you report the problem.
- 3. Submit your problem to IBM Rational Software Support. You can submit your problem to IBM Rational Software Support in the following ways:
  - Online: Go to the IBM Rational Software Support Web site at <a href="https://www.ibm.com/software/rational/support/">https://www.ibm.com/software/rational/support/</a> and in the Rational support task navigator, click Open Service Request. Select the electronic problem reporting tool, and open a Problem Management Record (PMR), describing the problem accurately in your own words.

For more information about opening a service request, go to <a href="http://www.ibm.com/software/support/help.html">http://www.ibm.com/software/support/help.html</a>

You can also open an online service request using the IBM Support Assistant. For more information, go to <u>http://www.ibm.com/software/support/isa/faq.html</u>.

- **By phone:** For the phone number to call in your country or region, go to the IBM directory of worldwide contacts at <u>http://www.ibm.com/planetwide/</u> and click the name of your country or geographic region.
- **Through your IBM Representative:** If you cannot access IBM Rational Software Support online or by phone, contact your IBM Representative. If necessary, your IBM Representative can open a service request for you. You can find complete contact information for each country at <u>http://www.ibm.com/planetwide/</u>.

## **Installing the IBM Rational Change for HP Quality Center Interface 3.7**

This chapter describes how the IBM Rational Change for HP Quality Center Interface 3.7 works, how to install the integration, and how to setup the systems for smooth running of the integration.

#### This chapter includes

Before you begin Installing IBM Rational Change for HP Quality Center Interface 3.7 After the installation

#### Before you begin

- 1. Install HP Quality Center 9.0 or 9.2. For detailed instructions, refer to the HP Quality Center documentation.
- 2. Install IBM Rational Synergy 7.1 and IBM Rational Change 5.2. For detailed instructions refer to the documentations of these products and the read me files in each of their patches.

#### Installing IBM Rational Change for HP Quality Center Interface 3.7

#### **Installation instructions**

- 1. Install the IBM Rational Change for HP Quality Center Interface 3.7 on a separate, dedicated standard desktop machine that is not being used as a HP Quality Center or IBM Rational Change server.
- To successfully work with the IBM Rational Change for HP Quality Center Interface 3.6, the machine must meet the minimum requirements and recommendations of Microsoft® .NET Framework 2.0 Desktop System requirement. For more information, refer to the Microsoft .NET product requirement guide.
- 2. HP Quality Center is a Web-based product. Therefore, you do not need to install HP Quality Center on the client machine where you are about to install IBM Rational Change for HP Quality Center 3.6 Interface. However, you must connect to the HP Quality Center server at least once from this machine prior to installing the integration. This will

enable the HP Quality Center to download the client components that are required to run this integration. The URL to connect to HP Quality Center server is in the following format. <u>http://ServerMachineName:portNo/virtualdir</u> example:http://qcserv:8080/qcbin

- 3. If the HP Quality Center and IBM Rational Change servers are located on different machines, the clock on these machines should be set to same time. This action is important for the integration to work correctly during the synchronization process.
- If it is not already installed, install Microsoft .NET Framework 2.0 before installing IBM Rational Change for HP Quality Center 3.7 Interface. For more information see: <u>http://msdn.microsoft.com/netframework/technologyinfo/howtoget/default.aspx</u>
- 5. Obtain the interface zip file (See <u>Contacting IBM Rational Software</u> <u>Support</u>)
- 6. Use a zip program to extract the contents of the zip file to a local directory. Example *C*:\*TEMP*.
- 7. Double Click the TlogicChangeQualityCenterInt.msi file to install the integration.
- 8. Follow the Installation wizard instructions to complete the installation.

IBM Rational Change for HP Quality Center Interface 3.7 installer installs the following programs on your machine:

IBM Rational Change for HP Quality Center Interface

IBM Rational Change for HP Quality Center Interface Service

The IBM Rational Change for HP Quality Center Interface Service is shown below in the Services window.

<u>File Action View</u>	Help					
⇔ → 💽 🚰						
🖏 Services (Local)	Name 🖉	Description	Status	Startup Type	Log On As	^
	SQL Server Active Directory Helper	Enables int		Disabled	Network S	
	SQL Server Browser	Provides S		Disabled	Network S	
	SQL Server FullText Search (SYSTEMARCHITECT)	Quickly cre		Manual	Network S	
	SQL Server VSS Writer	Provides th		Manual	Local System	
	SSDP Discovery Service	Enables dis	Started	Manual	Local Service	
	Symantec AntiVirus Client			Automatic	Local System	
	System Event Notification	Tracks syst	Started	Automatic	Local System	
	System Restore Service	Performs s	Started	Automatic	Local System	
	Task Scheduler	Enables a	Started	Automatic	Local System	
	TCP/IP NetBIOS Helper	Enables su	Started	Automatic	Local Service	
	Telelogic Change 8600	Telelogic C	Started	Automatic	Local System	
	Telelogic Change for HP Quality Center Interface			Manual	Local System	
	Relephony Telephony	Provides T	Started	Manual	Local System	
	Telnet	Enables a r		Disabled	Local System	
	Terminal Services	Allows mult	Started	Manual	Local System	-
	Themes	Provides u	Started	Automatic	Local System	
	Uninterruptible Power Supply	Manages a		Manual	Local System	
	Universal Plug and Play Device Host	Provides s		Manual	Local Service	
	Visual Studio 2005 Remote Debugger	Allows me		Disabled	Local System	N

#### After the installation

#### **Configure IBM Rational Change**

If you would like to use the default IBM Rational Change lifecycle process provided by this interface, follow these steps to create and install the IBM Rational Change package. The default lifecycle comes with all the required attributes to run this interface.

1. Copy the td\_process.xml file, which is in the interface zip file, to the IBM Rational Change Process installation directory. For example, this directory might be as follows:

```
C:\Program Files\IBM Rational\Change
5.2\cs_app\webapps\synergy\WEB- INF\cr_process
```

2. Unzip the td\_template.zip file, which is in the interface zip file, to the IBM Rational Change package\_templates directory. For example, this directory might be as follows:

```
C:\Program Files\IBM Rational\Change
5.2\cs_app\webapps\synergy\WEB- INF\
package_templates
```

3. Log on to IBM Rational Change as *Admin*, and create a new package using the td\_process.xml process file and the td\_template package template. To learn how to create and install a new package, refer to the IBM Rational Change documentation.

#### **Configuring IBM Rational Change users roles**

The user of IBM Rational Change must have *pt\_admin* role privileges. This role is required by the integration to modify change requests.

#### Creating attributes for IBM Rational Change custom lifecycle

If you would like to use your own existing custom lifecycles in IBM Rational Change, you must add the following.

1. Add the *td\_problem* attribute to your custom lifecycle. This attribute will save the HP Quality Center Defect ID value. This is a required attribute for the correct operation of this integration.

Name: td\_problem Label: TD BUG ID Web type: CCM\_STRING Database type: string

2. The **R&D** Comments field in HP Quality Center must be mapped to a IBM Rational Change attribute defined as having the CCM TEXT web type.

Example: Name: r\_d\_comments Label: R and D Comments Web type: CCM\_TEXT Database type: string

3. You must add the following lines to your package template CFG file:

[CCM\_ATTRIBUTE][NAME]db\_id[/NAME][ALIAS]DCMDBID[/ ALIAS][TYPE]CCM\_STRING[/TYPE][/CCM\_ATTRIBUTE]

[CCM\_ATTRIBUTE][NAME]delimiter[/NAME][ALIAS]DCM Delimiter[/ALIAS][TYPE]CCM\_STRING[/TYPE][/CCM\_ATT RIBUTE]

- 4. Login to IBM Rational Change as *Admin*, and create a new package using your custom template.
- 5. Install the package you just created.

# **Integration strategies**

To successfully use this integration, you must be able to transfer data between HP Quality Center and IBM Rational Change. After you understand the concepts described in this section, you are ready to setup your HP Quality Center project to use IBM Rational Change data, and vice versa.

At your site, you most likely have one of the following scenarios:

You are just starting out and setting up new projects in HP Quality Center. You already have data in HP Quality Center and IBM Rational Change that needs to be integrated.

You have data in either HP Quality Center or IBM Rational Change, but not in both.

In addition, you may have customized the default HP Quality Center defect lifecycle, the default IBM Rational Change lifecycle, or both.

Regardless of which scenario applies to you, you must consider some basic strategies that make the integration work. Moreover, you must understand these strategies before you use this integration.

#### Learning how the defect synchronization works

When you perform a synchronization operation, HP Quality Center defects are synchronized with the specific IBM Rational Change change requests that they have been mapped to.

#### Understanding data mapping

HP Quality Center uses the concept of defects and IBM Rational Change uses the concept change requests (CR). However, the information contained in a specific defect field and a corresponding CR attribute is not the same for both applications. Thus, data mapping is used to define how specific fields that are used in a HP Quality Center defect and a corresponding IBM Rational Change Request relate to each other.

#### **Special default mappings**

IBM Rational Change for HP Quality Center Interface comes with the following default mapping for the lifecycle package provided with this integration. The default mapping is shown in the following table.

If you already have a custom lifecycle at your site, you could customize your mapping as explained in the <u>Creating attributes for IBM Rational Change custom</u> <u>Lifecycle on page</u>.

HP Quality Center Defect System Field	IBM Rational Change CR attribute	Comments
BG_CLOSING_DATE	conclusion_date	Part of default lifecycle
BG_CLOSING_VERSION	release	Part of default lifecycle
BG_DESCRIPTION	problem_description	Part of default lifecycle
BG_DETECTED_BY	submitter	Part of default lifecycle
BG_DETECTION_VERSION	product_version	Part of default lifecycle
BG_DEV_COMMENTS	r_d_comments	Can be mapped to any IBM Rational Change CR attribute of type CCM_TEXT. The default lifecycle that comes with this integration has an attribute r_d_comments. The BG_DEV_COMMENTS can be mapped to this attribute or you can choose to create a new attribute
BG_PLANNED_CLOSING_VER	None	Can be mapped to any IBM Rational Change CR attribute of type CCM STRING.
BG PRIORITY	priority	Part of default lifecycle
BG PROJECT	product name	Part of default lifecycle
BG_REQUEST_ID	None	No attribute in IBM Rational Change
BG_RESPONSIBLE	resolver	Part of default lifecycle
BG_SEVERITY	severity	Part of default lifecycle
BG_STATUS	crstatus	Part of default lifecycle
BG_SUMMARY	problem_synopsis	Part of default lifecycle
BG_REPRODUCIBLE	None	No attribute in IBM Rational Change
BG_SUBJECT	None	No attribute in IBM Rational Change
BG_ACTUAL_FIX_TIME	None	Not mapped.
BG_ESTIMATED_FIX_TIME	None	Not mapped.
BG_DETECTION_DATE	None	Can be mapped to creation_date attribute in IBM Rational Change.
RO ROO ID	INONE	inot mapped

#### Mapping HP Quality Center defect status to IBM Rational Change lifecycle states

This integration supports the dissimilar lifecycles used by developers and testers and also supports lifecycle hiding. Lifecycle hiding means hiding some workflow states used by one team from the other.

See Chapter 5: "Creating links between HP Quality Center and IBM Rational Change", which explains how to map lifecycles between HP Quality Center and IBM Rational Change. This integration comes with default status mapping (see Lifecycle Configuration mapping dialog).

#### How data is synchronized between HP Quality Center and IBM Rational Change

When you first synchronize a HP Quality Center Project with a IBM Rational Change database, for each defect in the HP Quality Center project, a corresponding CR is created in the IBM Rational Change database. At that time, the HP Quality Center defect is mapped to this IBM Rational Change change request number in the current IBM Rational Change database. This CR number is saved in the next available **BG\_USER** field, in the HP Quality Center defect. This CR number is used as reference for all the feature synchronization purpose. The **BG\_USER** field created by the synchronization process is labeled as **problem\_number**. This user field should not be deleted or modified manually outside of the synchronization process to ensure the proper running of this integration.

Synchronization also considers new CRs in IBM Rational Change that match the user defined custom query. These CRs are migrated to HP Quality Center as defects. While migrating the change request, a new defect is created in HP Quality Center and that defect's **BG\_BUG\_ID** is saved in the **td\_problem** attribute of the CR. The **td\_problem** attribute uniquely identifies the HP Quality Center defect with HP Quality Center domain name, server name, project name, and defect ID. The following figure shows the TD BUG ID and R & D Comments attributes that are used in synchronization process.

The process is similar to migrating a IBM Rational Change CR to the HP Quality Center project database.

Defect Deta	ails			_ 🗆 🛛
	N 🕈 🕨 ! 🖃 🕈 🔝			
Defect:	1 Summary 1			
Defect:	1 Summary 1 Details  * Detected By: * Severity: Assigned To: Closing Date: Detected in Release: Estimated Fix Time: Planned Closing Version: Description: Description 1	bob 🗊 🔻 4-Very High 👻	Petected on Date: Actual Fix Time: Closed in Version: Detected in Cycle: Detected in Version: Modified: Priority: Project: Comments:	10/2/2008 ▼ 
Execution Report		OK Cancel	Help	

User) : bas	e70 - Microsoft Internet Explo	rer 📃 🔲
Telelo	gic'	H <u>o</u> me   <u>Q</u> ueries   <u>R</u> eports   <u>A</u> dvanced Search   Se <u>t</u> tings   <u>H</u> elp   E <u>x</u> it
Lefender Chang	e Submit a CR	Go OR ● Task 28 Show Search DB: base70
Change Request Ir	formation	Save Printer Friendly View   He
Entered CR		More Info
Transitions: Assign	Defer   Mark as Duplicate   Mark as	Obsolete   Reject   Verify   Admin Transition
CR ID:	28	Status: entered
Synopsis:	Screenshot text	
Description:	This is a description	Fit to Text
		•
		S.
TD Bug ID:	http://seraph:8080/qcbin.DEFAUL	.Sync.8
R and D Comments.	Some comments	Fit to Text
		8
Request Type:	Action Item	Work in DB:
Request Type: Severity:	Action Item 💌 Showstopper 🗸	Work in DB: Hardware: Any
Request Type: Severity: Product Name:	Action Item Showstopper Product C	Work in DB: Hardware: Any Y Operating System: Any Y
Request Type: Severity: Product Name: Product Version:	Action Item  Showstopper  Product C  Any	Work in DB: Hardware: Any Operating System: Any OS Version: Any
Request Type: Severity: Product Name: Product Version: Product Sub-System:	Action Item  Product C Any Any	Work in DB: Hardware: Any Operating System: Any OS Version: Any Web Browser: Any
Request Type: Severity: Product Name: Product Version: Product Sub-System: How Found:	Action Item  Showstopper  Product C  Any  Any  Any  Any  Y	Work in DB: Hardware: Any Operating System: Any OS Version: Any Web Browser: Any Browser Version: Any
Request Type: Severity: Product Name: Product Version: Product Sub-System: How Found: Origin:	Action Item  Showstopper  Product C  Any  Any  Any  Any  Any  Any  Y	Work in DB: Hardware: Any Operating System: Any OS Version: Any Web Browser: Any Browser Version: Any Customer ID:

# HP Quality Center project & IBM Rational Change process setup

#### Customize a project

Whether you created a new project or are using one that was already created, you **must** customize it as described in this section. This will ensure that this integration tool works properly.

Note: You must have administrator rights to customize the project.

#### **Customize system fields**

To customize the system fields:

- 1. Connect to the HP Quality Center server machine, for example <u>http://Server\_name:portno/QCBIN</u>
- 2. Login to the desired domain and project.
- 3. Click **Tools** -> **Customize**

The Project Customization screen is displayed.



- 4. Click **Customize Project Entities.** The **Customize Project Entities** dialog box is appars
- 5. In **Project Entities**, select the **DEFECT** entity and Click on System Fields.

Customize Project Entities	×		
	- Field Settings		
DEFECT	Field Name : BG_DESCRIPTION		
Actual Fix Time	Field Label : Description		
Closed in Version			
Closing Date	Field Type : String		
Description	Field Leweth :		
Detected By     Detected in Version	rield Lerigin .		
Detected on Date	History Required Masked		
Estimated Fix Time     Modified			
Planned Closing Version			
Priority			
Severity			
Status			
New Field - Remove Field			
OK Cancel Help			

- 6. See the Special Default Mappings shown in Chapter 3. Each HP Quality Center Defect Field in table1 has a corresponding field in the System Fields folder.
- 7. Select the **History** check box for all system fields that are mapped to IBM Rational Change attributes.

When the **History** check box is selected for a specific system field, HP Quality Center keeps a log of any changes that are made to that field. In addition, during the synchronization operation, the HP Quality Center database is queried to find all defect fields that have been modified since the last synchronization.

#### **Customize project lists**

HP Quality Center projects contain lists (such as projects, priority, and severity) that contain defect field values. Similarly, IBM Rational Change list boxes contain values for CR attributes (such as product, priority, and severity). The contents of these lists can be customized.

If a defect field has a list box and if that field is mapped to a IBM Rational Change attribute, the items in the list must match the attribute range values in IBM Rational Change. To help you learn how to do this, the following example is provided.

**Note**: If you have many lists that change frequently, consider using the IBM Rational Change external listbox feature. This feature can be configured so that IBM Rational Change retrieves attribute range values directly from the HP Quality Center database. Using this feature allows you to maintain lists using HP Quality Center without the need to make corresponding changes in IBM Rational Change.

#### Map project name list items:

To map the Project name **list items** in HP Quality Center to the **product\_name** list box values in IBM Rational Change, do the following:

- 1. Go to the **Project Customization** page.
- 2. Click the **Customize Projects Lists** link to display the **Customize Project** Lists dialog box.

Customize Project Lists	×
Lists : All Projects	•
New List	Delete List
List Items	
Product A	New <u>t</u> em
Synergy Integration32	New Sub-Item
	R <u>e</u> name Item
	Delete Item
OK Cancel	Help

3. In Lists, select All Projects.

All project list items are shown in the List Items area. When a new defect is created in the HP Quality Center project, the value for the **BG\_PROJECT** field is selected from this list.

4. Make a note of the projects shown in the **List Items** area in the **Customize Project Lists** dialog box.

The **BG\_PROJECT** field is mapped to IBM Rational Change attribute **product\_name**. Enter these values in the IBM Rational Change **product\_name** list box.

To enter the Project names in IBM Rational Change, do the following:

5. Log on to IBM Rational Change as *Admin*, and click **Administration**. The **Administration** page appears.

≟≝≝≣≣. Change"		
dministration	General Server	Users         Groups         ACLs         Search         Listbox Manager         Package Installer         H
Edit Listbox Values for: All Database	es 🗸 Save Cancel	View Listbox Dependencies Validate Listbox Configuration Data View Listbox Dependency Values
select Listbox	1	Customize Listbox Values
<ul> <li>Attribute Other</li> <li>browser_version created_in</li> <li>disposition_code</li> <li>hardware</li> <li>how_found</li> <li>modifiable_in</li> <li>origin</li> <li>os</li> <li>os_version</li> <li>pgroup</li> <li>platform</li> <li>priority</li> <li>product_name</li> <li>product_version</li> <li>release_priority</li> <li>request_type</li> <li>severity</li> <li>submitter_org</li> <li>task_subsys</li> <li>Properties</li> <li>Sort Su</li> </ul>	Sublistbox	Any Product A Product B Product C Synergy Integration32 Synergy Integration32 Add Modify Delete

6. Click Listbox Manager.

7. In Select Listbox, click product\_name.

- 8. Add the project names, that you noted earlier, to the **Define the** Listbox Values list.
- 9. If there are any additional IBM Rational Change products names that were not present in the HP Quality Center Project List Items, add them to the HP Quality Center **Project List Items**.

#### Mapping priority list items

To map the priority list items in HP Quality Center to the priority list box values in IBM Rational Change, do the following:

- 1. Display the Customize Project Lists dialog box.
- 2. In Lists, select Priority.

All priority list items are shown in the **List Items** area. The priority field value for a defect is assigned from **List Items**.

Customize Project Lists	×
Lists : Priority	-
New List	Delete List
List Items	
	New <u>I</u> tem
	New <u>S</u> ub-Item
[] □ 5	R <u>e</u> name Item
[	Delete Item
OK Cancel H	lelp

3. Make a note of the priorities shown in List Items.

The priority field is mapped to IBM Rational Change attribute priority. Enter these values in IBM Rational Change **priority** list box. To enter the priority values in IBM Rational Change, do the following:

- 4. Log on to IBM Rational Change as *Admin*, and click **Administration**. The **Administration** page appears.
- 5. Click Listbox Manager.
- 6. In Select Listbox, select priority.
- 7. Add the priority values that you noted earlier, to **Define the Listbox Values**.
- 8. If there are any additional IBM Rational Change priority values that were not there in the HP Quality Center Priority List Items, add them to the HP Quality Center Priority List Items.

#### Map severity list items

To map the **severity** list items in HP Quality Center to the **severity** list box values in IBM Rational Change, follow the steps shown in **Map Priority List Items** section.

# **Creating links between HP Quality Center and IBM Rational Change**

#### **Creating links**

Use the IBM Rational Change Link Wizard to create a link in the the IBM Rational Change for HP Quality Center Interface. The the IBM Rational Change Link Wizard enables you to define and configure the data to be transferred between a the IBM Rational Change database and a HP Quality Center project.

To create new links:

From your desktop, start the IBM Rational Change for HP Quality Center Interface by double-clicking.

Your first task is to create links between the IBM Rational Change database and the HP Quality Center project using IBM Rational Change Link Wizard. If no links are configured during startup, the IBM Rational Change for HP Quality Center Interface automatically launches the IBM Rational Change Link wizard. You could also start Link Wizard by selecting **Links** > **Create** menu from IBM Rational Change for HP Quality Center Interface.



Click Next to begin creating a link using the wizard.

The **HP Quality Center Configuration** dialog box appears. In **Server URL**, type the HP Quality Center server and the virtual directory name.

Note: Type a real host name, not localhost.

IBM Rational Change Link Wizard for HP Quality Center Interface	×
HP Quality Center Configuration	
Please Enter Quality Center Server URL :	
http://server_name:8080/qcbin	
The Quality Center Server URL looks like http:// <server name="">:portno/qcbin</server>	
User ID:	
Password:	
This Wizard will try to connect to the Quality Center Server based on the URL you entered above and authenticate the user when you click the "Next" button.	
<pre></pre>	Cancel

Type the username and password for the user you will use to synchronize data with HP Quality Center. This user must be an administrator for the HP Quality Center project you will synchronize with.

Click Next.

The Quality Center Project Configuration dialog box opens.

💿 IBM Ratio	onal Change Link Wizard for HP Quality Center Interface
HP Qua	ality Center Project Configuration Page
Enter your H	HP Quality Center Connectivity settings.
Server Info:	
Domain :	BLOREDOMAIN
Project :	Project1
	< Back Next > Cancel

- In Domain, select a HP Quality Center Domain.
   In Project, select a project and click Next.

The IBM Rational Change Configuration Page dialog box appears.

💿 IBM Rational	Change Link Wizard for HP Quality Center Interface
IBM Rationa	al Change Configuration Page
Enter your IBM F	Rational Change Connectivity settings:
IBM Rational Cha	ange Server Info:
Server Name :	usir-naco
Port No.	8600
User ID :	testerBob
Password :	******
Database Path :	\\usir-naco\cmdb\base701
	< Back Next > Cancel

6. Type the IBM Rational Change server name, port, userid, password and database path used by IBM Rational Change and then click Next.

Note: You must have *pt\_admin* role in IBM Rational Change to use this integration.

BM Rational Change Link Wizard for HP Quality Center Interface					
Defect Attribute Mapping	I				
Quality Center Defect Field	IBM Rational Change CR Attri	Sync Method		Refresh	
BG_ACTUAL_FIX_TIME	None	SYNC_OFF			
BG_BUG_ID	None	SYNC_OFF			
BG_CLOSING_DATE	conclusion_date	SYNC_ON			
BG_CLOSING_VERSION	release	SYNC_ON			
BG_DESCRIPTION	problem_description	SYNC_ON			
BG_DETECTED_BY	submitter	SYNC_ON			
BG_DETECTED_IN_RCYC	None	SYNC_OFF			
BG_DETECTED_IN_REL	None	SYNC_OFF			
BG_DETECTION_DATE	None	SYNC_OFF			
BG_DETECTION_VERSION	product_version	SYNC_ON	~		
		< Back Nex	>	Cancel	

The Defect Attribute Mapping dialog box appears.

A default mapping of HP Quality Center Defect field with IBM Rational Change CR attribute is displayed in this dialog. You can use this default setting or customize it for your needs.

The HP **Quality Center Defect Field** column displays the current defect fields in the HP Quality Center project that was selected in the previous wizard dialog.

The IBM Rational **Change CR Attribute** column shows all available IBM Rational Change CR attributes in the Change database.

A default sync method is also set for each field. You can use this default setting or modify the settings to your needs.

The Sync method column has the following options.

SYNC\_OFF: Synchronization process ignores any changes made to the field in HP Quality Center and corresponding attribute in IBM Rational Change.

SYNC\_TD2CCM: Changes made to the field in HP Quality Center override the changes made to the corresponding attribute in IBM Rational Change.

SYNC\_CCM2TD: Changes made to a attribute in IBM Rational Change override the change made to the corresponding field in HP Quality Center

SYNC\_ON: Synchronization process determines which tool has the most recent update for any given attribute and updates the out-of-date tool with latest changes.

**Refresh**: Updates the HP Quality Center Defect fields and the IBM Rational Change CR attribute list with the latest values from the HP Quality Center and the IBM Rational Change servers.

#### Note:

It is very important that the user checks and adjusts the time on HP Quality Center and IBM Rational Change Server machines during the setup process. The Synchronization process uses system time as a reference to determine the latest changes.

Link Wizard restricts the user from configuring a single CR attribute to multiple HP Quality Center defect fields to avoid any data loss during the synchronization process.

#### 7. Click Next.

The Lifecycle Configuration Mapping dialog box appears.

IBM Rational Change Link Wizard for HP Quality Center Interface							
Lifecycle Config	Lifecycle Configuration Mapping						
Select IBM Rational Cha	nge submit form:			Befresh			
			✓	Heiresit			
Map CR Status to Qualit	y Center Defect Status:		Map Quality Center Defect Stat	tus to CR Status:	_		
IBM Rational Chang	Quality Center Defect Status	^	Quality Center Defect Status	IBM Rational Chang			
entered	New		Closed	concluded			
in_review	Open	Ξ	Fixed	resolved			
deferred	Open		New	entered			
assigned	Open		Open	assigned			
resolved	Fixed		Rejected	probreject			
concluded	Closed	~	Reopen	assigned			
<							
			< Back				

8. Make the following selections in the Lifecycle Configuration Mapping dialog box

From **Select IBM Rational Change submit form** select a submit form for your custom lifecycle.

9. From Map CR Status to Quality Center Defect Status, map your states

The **CR Status to Quality Center Defect Status** mapping is used for updating defect status brought in from IBM Rational Change. All available CR status are listed in the **IBM Rational Change CR Status** column. The CR status names are not modifiable. The **Quality Center Defect Status** list box contains all available HP Quality Center status. You could choose an empty value in this column. If the value is empty it means that HP Quality Center Defect lifecycle does not have a corresponding state. Unmapped states are not synchronized.

10. From Map Quality Center Defect Status to CR status, map your states

The **Quality Center Defect Status to CR status** mapping is used for updating the CR status brought in from HP Quality Center projects. All available HP Quality Center Defect status are listed in the **Quality Center Defect Status** column. The defect status names are not modifiable. The **IBM Rational Change CR Status** list box has all available IBM Rational Change lifecycle status. You could choose an empty value in this column. If the value is empty, it means that IBM Rational Change lifecycle does not have a corresponding state and IBM Rational Change for HP Quality Center Interface will not update the CR status. Note: It is not mandatory to map all HP Quality Center defect states to IBM Rational Change CR states or vice versa. The unmapped states are hidden and are not synchronized. This level of flexible customization allows a team to hide the lifecycle that is internal to a team and synchronize only those states that are meaningful for the other team.

11. Click Next. The IBM Rational Change and Quality Center Custom Query Page dialog box appears.

IBM Rational Change Link Wizard for HP Quality Center Interface	
IBM Rational Change and Quality Center Custom Query Page	
Quality Center	
Quality Center Custom Query:	
The string entered here will be added with AND to the default Quality Center query used during sync: SELECT * FROM BUG WHERE BG_VTS >= ' <last_sync_time>'</last_sync_time>	
Example: entering BG_PRIORITY='5-Urgent' will result in the query: SELECT * FROM BUG WHERE BG_VTS >= ' <last_sync_time>' AND BG_PRIORITY='5-Urgent'</last_sync_time>	
CIBM Rational Change	
Automatically migrate new IBM Rational Change CRs to Quality Center during sync	
IBM Rational Change Custom Query (cvtype='problem')	
The string entered here must be a valid IBM Rational Change query. If no string is entered, the value will defau "(cvtype='problem')"	ult to
Example: The query string "(cvtype='problem') and (crstatus='entered') and ((product_name='freemind') or (product_name='GDIDEMO'))'' will query all problems in entered state for product 'freemind' or 'GDIDEMO'	
< Back Next >	Cancel

This dialog box provides the option to add a SQL statement that will be added to the query used to find defects in HP Quality Center to sync. This optional field can be used to be selective about which HP Quality Center defects are synchronized with IBM Rational Change. For example, you could synchronize only defects with *Urgent* **Priority**, or only defects submitted against a specific area of the product being tested. The text you enter must be valid SQL. You should perform at least one manual sync operation to verify that your custom query is working as expected.

Also, you can migrate newly created CRs to HP Quality Center during synchronization. Specify a valid IBM Rational Change query, and then check the box Automatically migrate new IBM Rational Change CRs to Quality Center during sync.

12. Click Next. The IBM Rational Change and Quality Center Link Setup Page appears.

IBM Rational Change Link Wizard for HP Quality Center I	nterface 🔀					
IBM Rational Change and Quality Center Link Setup Page						
Please Provide a name for the Link you just created.						
Link Name : ReleaseTest						
Sync Time : 30 Minutes 💌						
	< Back Next > Cancel					

13. In **Link Name**, type the name of your link. This name is displayed in IBM Rational Change for HP Quality Center Interface.

In **Sync Time**, Type a time interval to synchronize the updated defect records.

**Note**: Minimum allowed time interval is one minute. IBM Rational Change for HP Quality Center Interface updates the data between HP Quality Center and IBM Rational Change database based on the time interval provided in this dialog. The interval between synchronizations is between the end of one synchronization operation and the beginning of the next.

14. Click Next.

The completion dialog box appears.



#### **Updating links**

Each synchronization link that is created using IBM Rational Change Link Wizard can be edited with in the IBM Rational Change for HP Quality Center Interface. You should not manually edit link configuration XML files due to the likelihood of introducing an error. Always use the following procedure to update the link configuration.

To edit HP Quality Center Server Settings, do the following:

1. In the IBM Rational Change for HP Quality Center Interface left pane, select a link.

💿 IBM Rational Change For HP Quality Center Interface					
Links Tools Help					
Link Name	Quality Center	Change Attibutes Life	ecycle Custom Query	Options Status	
🛱 ReleaseTest					
	Server Name :	http://qc9:8080/qcbin			
	Domain :	BLOREDOMAIN			
	Project :	TDCS35Test			
	User ID :	testerBob			
	Password :	*****			
	Save				
Link file path = C:\Program Files\IBM	Rational\Change	_QualityCenter37\LinkFile	es\tdcsLinks_002.xml		

2. Click Quality Center tab.

- 3. Update the HP Quality Center server information
- 4. Click Save, then click OK.

Before saving the configuration, IBM Rational Change for HP Quality Center Interface will try to validate your updates. If validation fails, you have the choice to save or discard the invalid configuration.

To edit the IBM Rational Change Server settings:

- 1. From the left pane of the IBM Rational Change for HP Quality Center Interface, select the link whose properties you want to edit.
- 2. Click the IBM Rational Change tab.
- 3. Update the IBM Rational Change information.

4. Click Save.							
💿 IBM Rational Change For HP (	Quality Center In	terface					
Links Tools Help							
Link Name	Quality Center Cha	nge Attibutes Lifecycl	Custom Query	Options	Status		
📕 ReleaseTest							
	Server Name :	usir-naco					
						_	
	Port No:	8600					
	UserID:	testerbob					
		(esterbob					
	Password :	*****					
						_	
	Database Path :	\\usir-naco\cmdb\base7	)1				
		_					
1	Save						
Link file nath = C\Program Files\IBM	Bational\Change Qu	alituCenter37\LinkFiles\tr	estinks 002 vml				
cant no part - c. a regram files (DM	rational change_do	any contoror series lies w	ooeniiko_ooeniinii				

4. Click Save.

To edit attribute mapping, do the following:

- 1. From the left pane of the IBM Rational Change for HP Quality Center Interface, select the link whose properties you want to edit.
- 2. Click the **Attribute** tab.

The attribute-mapping dialog box is displayed. The mapping information displayed in this dialog is from the link configuration XML file for the selected link. The configuration file may not contain recent updates to the IBM Rational Change process, and HP Quality Center defect fields. To get the CR attributes in IBM Rational Change or the defect field in HP Quality Center server dynamically, click **Refresh**.

3. Click Save.

k Name	Quality Center Change Attibut	es Lifecycle Custom Query Options Statu	IS	
ReleaseTest				
	Quality Center Defect Field	IBM Rational Change CR Attribute	Sync Method	
	BG_ACTUAL_FIX_TIME	None	SYNC_OFF	
	BG_BUG_ID	None	SYNC_OFF	
	BG_CLOSING_DATE	conclusion_date	SYNC_ON	
	BG_CLOSING_VERSION	release	SYNC_ON	
	BG_DESCRIPTION	problem_description	SYNC_ON	
	BG_DETECTED_BY	submitter	SYNC_ON	
	BG_DETECTED_IN_RCYC	None	SYNC_OFF	
	BG_DETECTED_IN_REL	None	SYNC_OFF	
	BG_DETECTION_DATE	None	SYNC_OFF	
	BG_DETECTION_VERSION	product_version	SYNC_ON	
	BG_DEV_COMMENTS	None	SYNC_TD2CCM	
	BG_ESTIMATED_FIX_TIME	None	SYNC_OFF	
	BG_PLANNED_CLOSING_VE	R None	SYNC_OFF	~
	<			>
	Save Re	fresh		

To edit the lifecycle mapping:

- 1. From the left pane of the IBM Rational Change for HP Quality Center Interface, select the link whose properties you want to edit.
- 2. Click the Lifecycle tab.

The status-mapping dialog box appears. The mapping information displayed in this dialog is from the link configuration XML file for the selected link. The configuration file may not contain recent updates to IBM Rational Change process and the HP Quality Center defect status. To get the CR states from IBM Rational Change or the defect states from HP Quality Center server dynamically, click **Refresh**.

3. Click Save.

_ink Name	Quality Center Char	nge Attibutes Lifecycle Custom Que	ry Options Status	
ReleaseTest	Select IBM Ration	al Change submit form :	· · · · ·	
	START_HERE2a	ssigned 🗸		
	Map CR Status to	Quality Center Defect Status:	Map Quality Center Defect Sta	tus to CS Status:
	IBM Rational Cha	ng Quality Center Defect Status	Quality Center Defect Status	IBM Rational Chang
	entered	New	Closed	concluded
	in_review	Open	Fixed	resolved
	deferred	Open	New	entered
	assigned	Open	Open	assigned
	resolved	Fixed	Rejected	probreject
	concluded	Closed	Reopen	assigned
	probreject	Rejected		
	duplicate	Rejected		
	obsolete	Rejected		
	Save	Betresh		

**Note:** The IBM Rational Change states that are not mapped to HP Quality Center defect status or vice versa are hidden states and are not synchronized.

#### **Deleting links:**

To manually delete a link from the IBM Rational Change for HP Quality Center Interface:

- 1. From the left pane of the IBM Rational Change for HP Quality Center Interface, select the link you want to delete.
- 2. Select Links > Delete.
- 3.
- 4. Click Yes.

# Working with the IBM Rational Change for HP Quality Center Interface

#### Manual synchronization operation

To manually synchronize a link from the IBM Rational Change for HP Quality Center Interface:

- 1. In the IBM Rational Change for HP Quality Center Interface, select a link.
- 2. Choose **Tools** > **Synchronize** > **link**

#### The Manual Sync Dialog box appears.

- 3. Select a logging level if you need more information during synchronization process. The available logging levels are **Brief**, **Verbose** and **Debug**.
- 4. Click start button to **start** the synchronization operation.
- 5. Click Cancel button to **stop** the manual synchronization operation.

Manual Sync Dialog	
Log level : Verbose	
BG_TARGET_REL < SYNC_OFF> None Finish sync Defects.	~
Manual Sync Completed. Update the last sync start time : Finish Time:2008-11-05 10:21:28	
Manual Sync Start Connect to Quality Center successful.	
Connect to Telelogic Change successful. Update the last sync finish time : Start Time:2008-11-05 10:21:40	
CR query = cvtype='problem' and has_attr(td_problem') and modify_time >= time('11/05/2008 10:21:20') cs query for sync result size is 0	
Query for Quarty Center Defect = SELECT FROM BUG WHERE BG_VTS >= 2008-11-05 10:21:20 The number of defects return by query = 0 Manual Sure Completed	
Update the last sync start time : FinishTime:2008-11-05 10:21:42 Manual Sync Start	
Connect to Quality Center successful. Connect to Telelogic Change successful.	
Update the last sync finish time : Start Time:2008-11-05 10:21:45 CR query = cvtype='problem' and has_attr(td_problem') and modify_time >= time('11/05/2008 10:21:40')	
cs query for sync result size is 0 Query for Quality Center Defect = SELECT * FROM BUG WHERE BG_VTS >= '2008-11-05 10:21:40'	
Ine number of detects return by query = 0 Manual Sync Completed.	
opuare the rask sync start time . Prinsh hime.2000-11-05 10.21.47	~
Start Cancel Close	

Note: The detailed messages and status are logged to <your install directory>\logs\MainApplog.txt file

#### Synchronization service

To run the synchronization operations as a Service from the IBM Rational Change for HP Quality Center Interface:

1. In IBM Rational Change for HP Quality Center Interface, select **Tools** > **Start Service**.

A message appears indicating the status of service during startup. The synchronization process starts for all the configured links in parallel. Multiple IBM Rational Change databases can be synchronized with multiple HP Quality Center servers and projects simultaneously. The update frequency for each link is configured by the user in the Link Wizard while creating a new link and is modifiable from **Options** tab in IBM Rational Change for HP Quality Center Interface. The synchronization service reads the link configuration file to update itself of any changes users might have made to the link before starting the synchronization cycle for a link.

Note: There is no visual indication of status during automatic synchronization, however detailed log files for each link are available in <your install directory>\logs\

2. In IBM Rational Change Lifecycle Manager, select **Tools** > **Stop Service**.

#### Migrate a change request from IBM Rational Change to HP Quality Center Project

To migrate a change request from the IBM Rational Change database to a HP Quality Center project:

- 1. Select a link in the IBM Rational Change for HP Quality Center Interface, and then select **Tools** > **Migrate**.
- 2. The Migrate Defects Dialog dialog box appears.

💿 Migrate Defects Dialog		
IBM Rational Change Query : Example: release='6.2'		Query
CR Number Synopsis	CR Status release	td_problem
Select All Reverse Selections Clear All	Migrate	Cancel Close
Log level : Brief		
<		>

- 3. In IBM Rational Change Query, provide an IBM Rational Change query.
- 4. Click Query.

The list of change requests from query result is displayed in the **Migrate Defects Dialog** dialog box.

- 5. Check all the CRs you want to migrate.
- 6. Select a logging level if you need more information during migration process. The available logging levels are **Brief**, **Verbose** and **Debug**.
- 7. Click Migrate.

**Warning**: Clicking **Query** without providing a query string in the IBM Rational Change Query edit box causes IBM Rational Change for HP Quality Center Interface to select the CRs from the entire IBM Rational Change database that are not migrated or not synchronized with a HP Quality Center project. If your database is large this operation may take a while. For optimum performance, always provide a IBM Rational Change query.

**Note**: It is not necessary to provide a separate migration command to migrate the newly created defects in HP Quality Center project. Newly submitted defects in HP Quality Center are picked up dynamically during the Synchronization process.

Detailed messages and status is logged to <your install directory>\logs\MainApplog.txt file.

#### Managing the sync service with the system tray

When you launch the IBM Rational Change for HP Quality Center Interface, an icon is placed in system tray. If you try to exit the IBM Rational Change for HP Quality Center Interface by clicking on System 'Close' menu or the 'X' icon at top right corner of the title bar, the IBM Rational Change for HP Quality Center Interface minimizes itself to system tray as an icon.



Double-clicking this icon activates the IBM Rational Change for HP Quality Center Interface. To start or stop the Sync service from the context menu, right-click this icon, and then select **Start Service** or **Stop Service**.

Whenever the Sync service changes its state, **Service Status Update** appears, notifying the user of the status.

Click **Status** to browse directly to the **Status** page in IBM Rational Change for HP Quality Center Interface. Use **Exit** to close the IBM Rational Change for HP Quality Center Interface.

💿 IBM Rational Change For HP Quality Center Interface				
Links Tools Help				
Link Name IFI ReleaseTest	Quality Center Change Attibutes Lifecycle Custom Query Options Status Service Status: Running			
	Link Name	Last Sync Started	Last Sync Finished	Next Sync Scheduled
	ReleaseTest	2/12/2009 2:28:20 PM	2009-02-12 14:28:27	2/12/2009 2:58:27 PM
Link file path = C:\Program Files\BM	Rational\Change Qual	ityCenter37\LinkFiles\tdcsLinks 0	102.xml	
		.,		

The **Status** page displays when the synchronization was last performed for a link and when the next sync is scheduled.

#### Logging during Synchronization:

Your <installation directory> contains tdcsConfig.xml. The content of this file are shown below.

logLevel options: Brief=0, Verbose=1, Debug =2

logfileSizeCap option: default =5. (5 MegaByte ).

**keepOldLogFile** option: **default = 1.** (To keep the history of log files), 0 for no log history.

**TimePatterns:** The default date/time format used for SYNERGY query and HP Quality Centery query. You could set the time pattern to your locale.

The contents of tdcsConfig.xml is shown below:

<?xml version="1.0" encoding="utf-8"?>

<TDCSConfig version="tdcs3.2">

<section name="Log Settings">

<entry name="logLevel">0</entry>

<entry name="logFileSizeCap">5</entry>

```
<entry name="keepOldLogFile">1</entry>
```

</section>

<section name="TimePatterns">

<entry name="CMQuery">MM/dd/yyyy HH:mm:ss</entry>

<entry name="TDQuery">yyyy-MM-dd HH:mm:ss</entry>

</section>

</TDCSConfig>

tdcsConfig.xml

#### **Appendix A: Notices**

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