



IBM® Rational® Rhapsody® Gateway Add On



CaliberRM Coupling Notes

Rhapsody[®]

**IBM[®] Rational[®] Rhapsody[®]
Gateway Add On**

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Introduction

This technical note describes how to capture the traceability information of requirements from CaliberRM (Borland) using Rhapsody Gateway.

Some standard operations, such as exporting the Rhapsody Gateway tool to a CaliberRM project, require the CaliberRM tool to be installed.

Refer to the *Customization Guide* and run the Coupling example for more information about what is discussed in this technical note.

CaliberRM Analysis

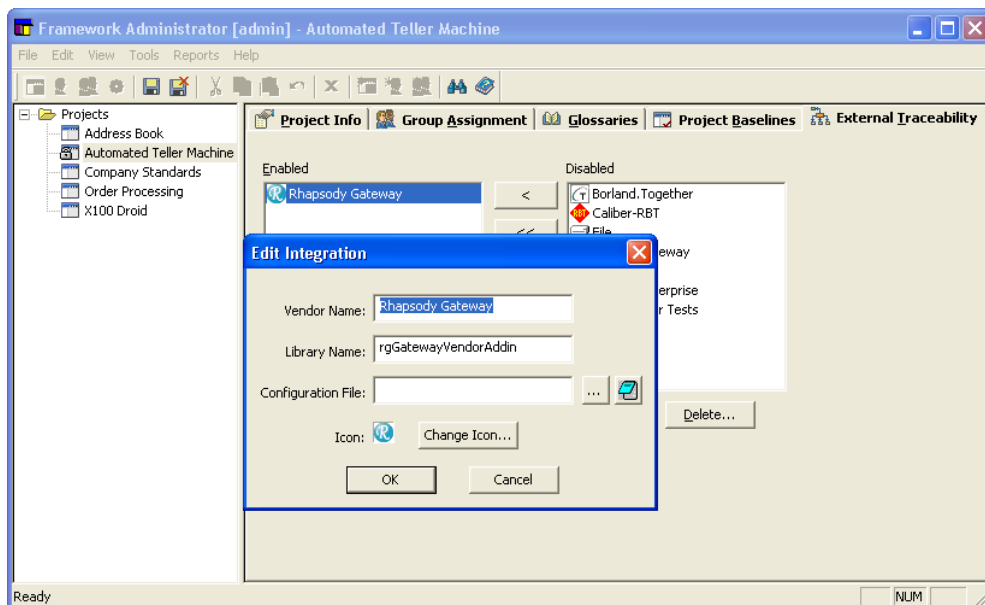
This chapter describes how Rhapsody Gateway captures information items from CaliberRM and how these information items are analyzed to be used as requirements, or references to higher level requirements.

CaliberRM Versions Supported

Rhapsody Gateway supports CaliberRM 6.5, 2005 and 2006 versions.

Creating Link between CaliberRM and Rhapsody Gateway

In order to begin, you need to go in the CaliberRM Administrator tool and setup the external traceability to your current project like the figure just below.



Generating Requirements Information from CaliberRM

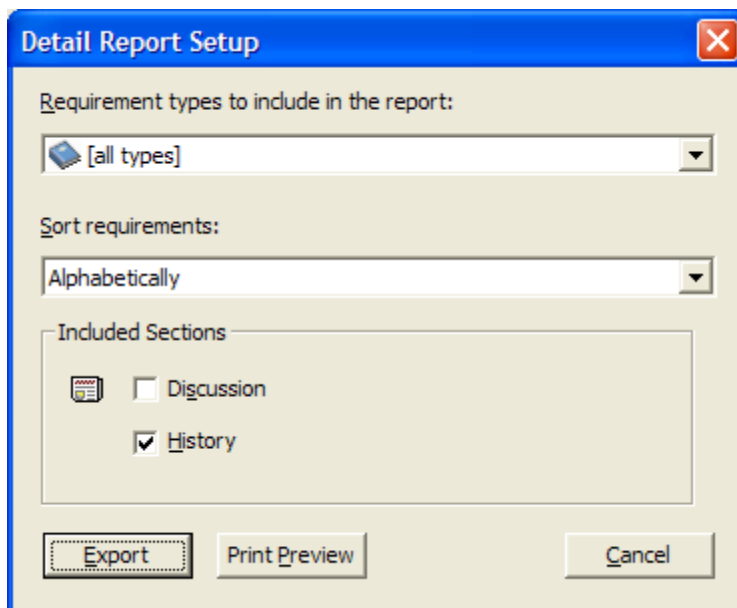
The CaliberRM API capabilities lead to us to consider a manual action at this step.

The Rhapsody Gateway analysis is based on a XML report generated from CaliberRM. Select **Reports > Detail...**



In the **Detail Report Setup** dialog box, select the requirements you want to be exported and analyzed by Rhapsody Gateway.



Then click **Export** and save the XML file. You can locate this XML file in the Rhapsody Gateway project directory or in any other directory visible from the environment where Rhapsody Gateway is installed.



If you check **History** in this dialog box, CaliberRM traceability information will be added back in Rhapsody Gateway to be traced.

Selecting the CaliberRM File

To insert a CaliberRM file, follow these steps:

1. In the Project editor, click on the **Add a document**  button to insert a new document into the Traceability Description Area.
2. Select a **Type of Analysis** based on CaliberRM.
3. Click on the **File or Directory** field then on the **Browse**  button to select the XML file exported from CaliberRM, from the Rhapsody Gateway selection window.

Details	Modification Files	Covers
Name	Type of Analysis	File or Directory
Automatic Teller Machine	CaliberRM	Automated Teller Ma

Specific Parameters of a CaliberRM Based Type

When you select a type of analysis that is defined to capture information from CaliberRM, you have the opportunity to define an additional parameter:

- ◆ **With UDA Values**—This option allows to add the UDA values in the XML intermediate file.

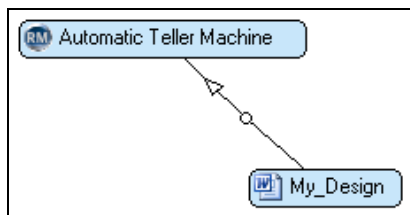
To activate the option, select it then check the checkbox in the **Value** field.

Details		Modification Files		Covers				
	Name	Type of Analysis	File or Directory	Ig...	In...	Bl...	Variable	Value
	Automatic Teller Machine	CaliberRM	Automated Teller Ma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	With UDA Values	<input checked="" type="checkbox"/>

Adding a Cover

To define traceability, add a cover between the covering document and the covered document.

The Rhapsody Gateway project looks like the following:



Now the traceability analysis of the project can be performed.

Requirements Traceability

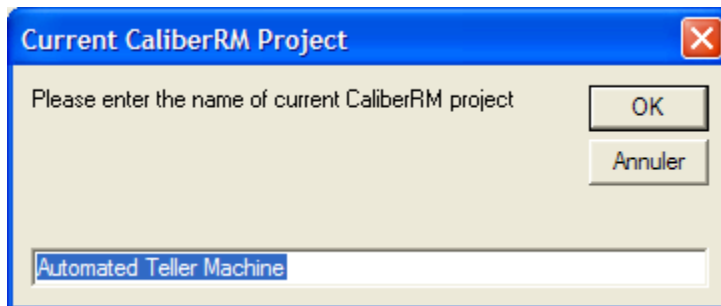
Rhapsody Gateway allows you to capture the traceability information related to the CaliberRM requirements inserted in modelling tools, code files, test plans, etc. It also allows you to make this information visible for CaliberRM users.

This is possible because of the “Vendor Add-In”.

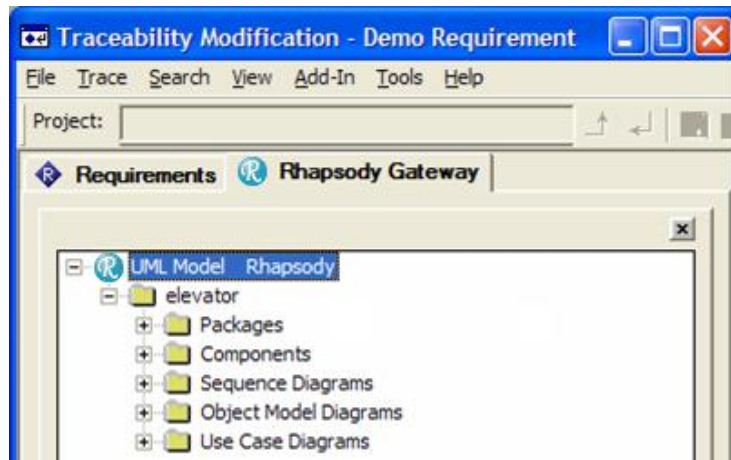
Refer to the Borland documentation for general information concerning Vendor Add-In use and management.

Refer to the *Coupling Notes* in the Rhapsody Gateway documentation package to learn more about traceability creation within the tool you use to implement or verify CaliberRM requirements.

The first time you activate the Rhapsody Gateway tab from the **Traceability Modification** dialog box for your project, you may get an additional CaliberRM dialog box in which you must confirm the name of the current CaliberRM project. Type your project name and click **OK** to confirm.



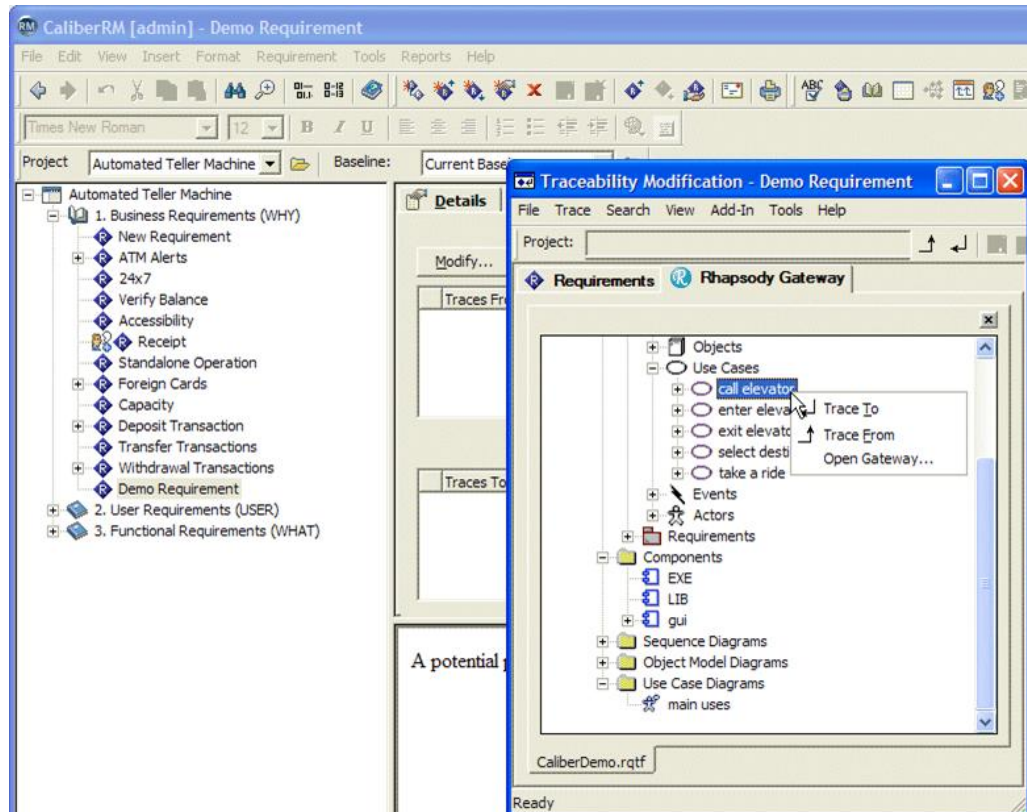
The CaliberRM Traceability dialog box opens. It displays the tree view of the document defined in the Rhapsody Gateway project configuration as covering the CaliberRM requirements:



Select an element in the **Traceability Modification** dialog and then select **Open Gateway** in the context menu to go in the Rhapsody Gateway project workspace: the element selected in CaliberRM is automatically selected in Rhapsody Gateway.

Requirements Traceability Performed in the CaliberRM Environment

You can use the **Trace To** and **Trace From** features of CaliberRM to create your traceability.



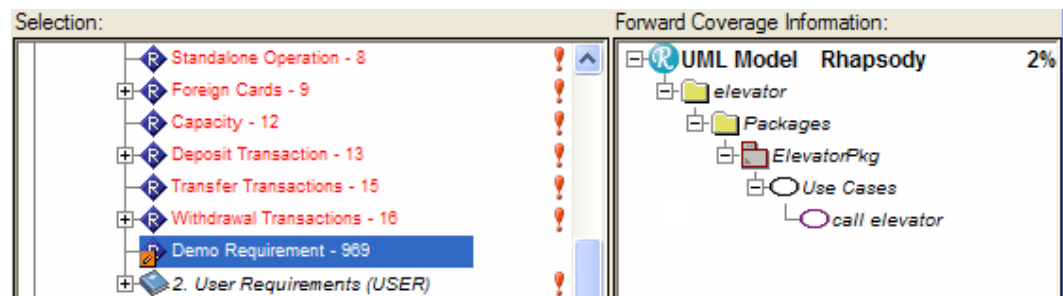
The traceability links created within CaliberRM are not captured by Rhapsody Gateway.

To create these links consult the *Generating Requirements Information from CaliberRM* section.

Requirements Traceability Performed out of CaliberRM

You can use Rhapsody Gateway features to create traceability within the Rhapsody Gateway environment, or to capture traceability entered directly into the interfaced tools.

Refer to the Rhapsody Gateway *User Manual* to learn more about traceability capture and creation.

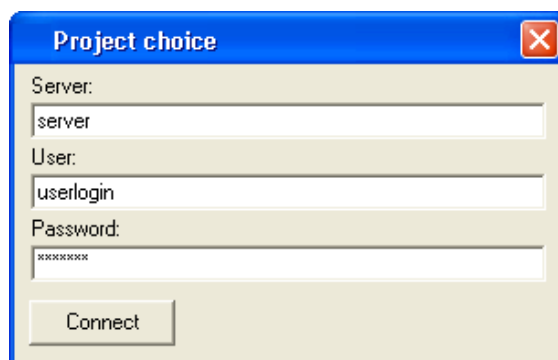


It is possible to display the traceability information in the CaliberRM vendor add-in dialog box.

Export to CaliberRM

To export traceability to CaliberRM, select the CaliberRM document at its root level, then select **Tools > Export Traceability to CaliberRM project**.

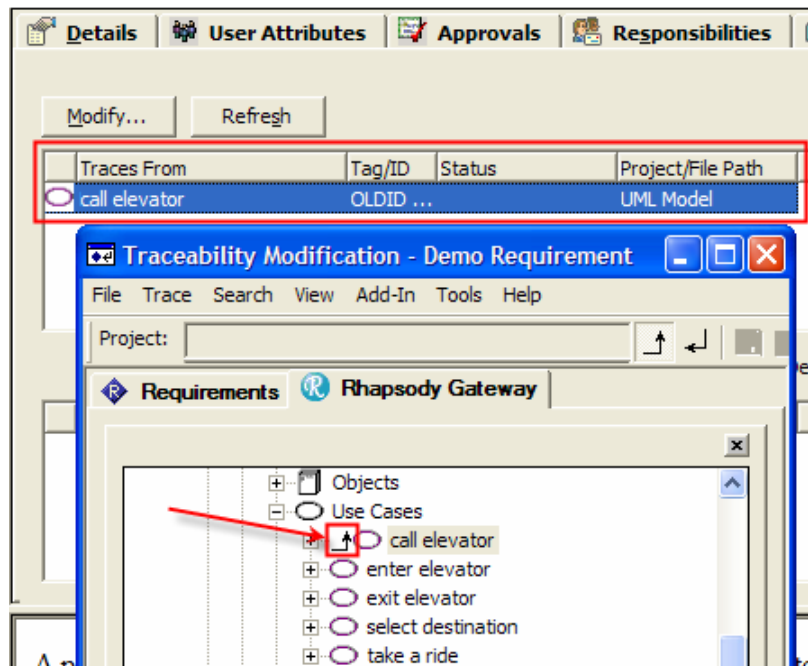
Enter the connection information:



A dialog box titled "Project choice" with a close button (X) in the top right corner. It contains three input fields: "Server:" with the text "server", "User:" with the text "userlogin", and "Password:" with masked text "xxxxxxx". A "Connect" button is located at the bottom.

Rhapsody Gateway communicates with CaliberRM and automatically creates the traceability information.

In the CaliberRM environment, the **Trace From** information is displayed.



Troubleshooting

Depending on your CaliberRM and Rhapsody Gateway installation configuration, you can encounter problems.

Indeed, Rhapsody Gateway needs to be installed after CaliberRM, otherwise the vendor add-in DLL is not installed.

If the problem persists, you must manually integrate the vendor add-in DLL.

Type the `regsvr32 <Install Directory>\config\misc\caliberRM\ command` to register the DLL.

If Rhapsody Gateway is not installed after CaliberRM the DLL is not there.