

IBM® Rational® Rhapsody® Gateway Add On



Visio Coupling Notes

Rhapsody[®]

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

Visio Coupling Notes



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Introduction

This technical note describes how to capture the traceability information of requirements from Microsoft Visio using Rhapsody Gateway.

Some standard operations, such as importing a Visio document or navigating in a Visio document from the Rhapsody Gateway tool, require the Visio tool to be installed.

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

Visio Analysis

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

This chapter covers the following topics:



- ◆ Getting the information items from Visio.
- ◆ Configuring Rhapsody Gateway according to the traceability information in Visio.






Visio Versions Supported

Rhapsody Gateway supports Visio 2002 & 2003 versions.

Selecting a Visio File

To insert a Visio 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 Visio.
3. Click on the **File or Directory** field then on the **Browse**  button to select a Visio file (with the `vsd` extension) from the Rhapsody Gateway selection window.

 Details  Modification Files  Covers				
	Name	Type of Analysis	File or Directory	lg
	Diagram	 Visio	Bugzilla-Visio2003.VSD	

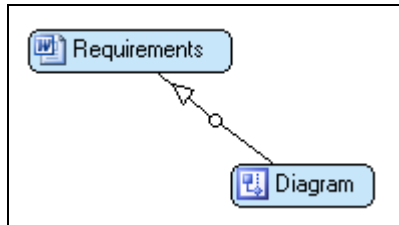
Specific Parameters of a Visio Based Type

Visio types do not require any specific parameter definition.

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.

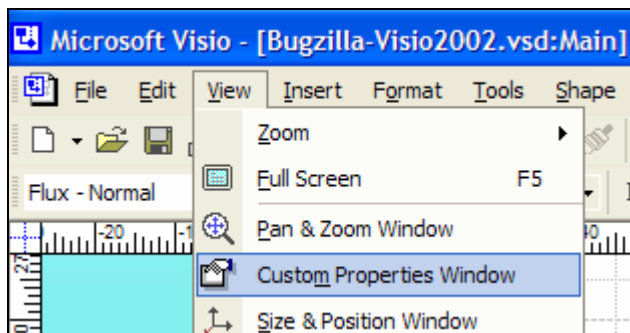
Requirements Traceability

Rhapsody Gateway has two different ways to perform traceability between high-level requirements and Visio model elements:

- ◆ Creation of coverage links from Rhapsody Gateway. For more detailed information, refer to the *User Manual*.
- ◆ Capture of a pre-defined traceability tag in the **Properties** of Visio. This tag can be typed manually or created automatically using copy-paste or drag&drop actions.

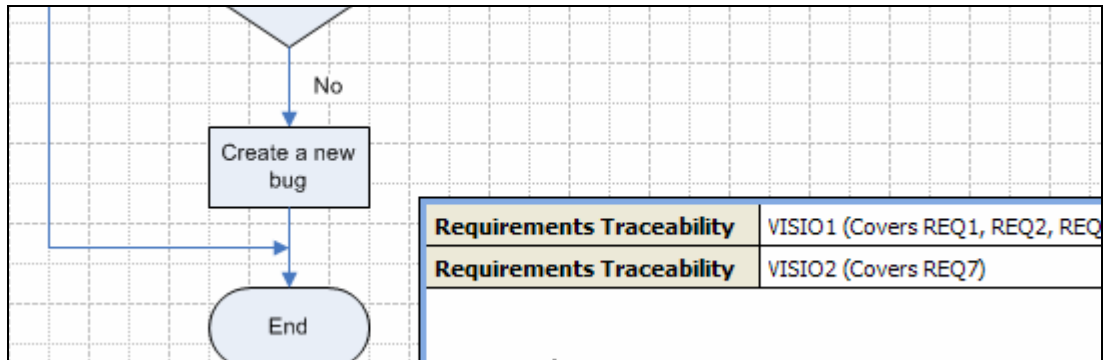
Entering Traceability Information in Visio

To enter traceability information in Visio, use **Custom Properties**.



Default configuration considers:

- ◆ Information is entered in a “Requirements Traceability” property.
- ◆ Syntax uses `Visioxx`, `xx` as digits, for requirement identifiers, if you decide to create requirement elements within Visio.
- ◆ Syntax for reference to higher level requirements is `(Covers REQ1, REQ2,...)`: `Covers` between parenthesis and followed by requirement IDs `REQxx` separated by a coma.



Intermediate File

Rhapsody Gateway creates an intermediate file called `<document_name>.txt` in the **intermediate** sub-directory of the project directory, containing:

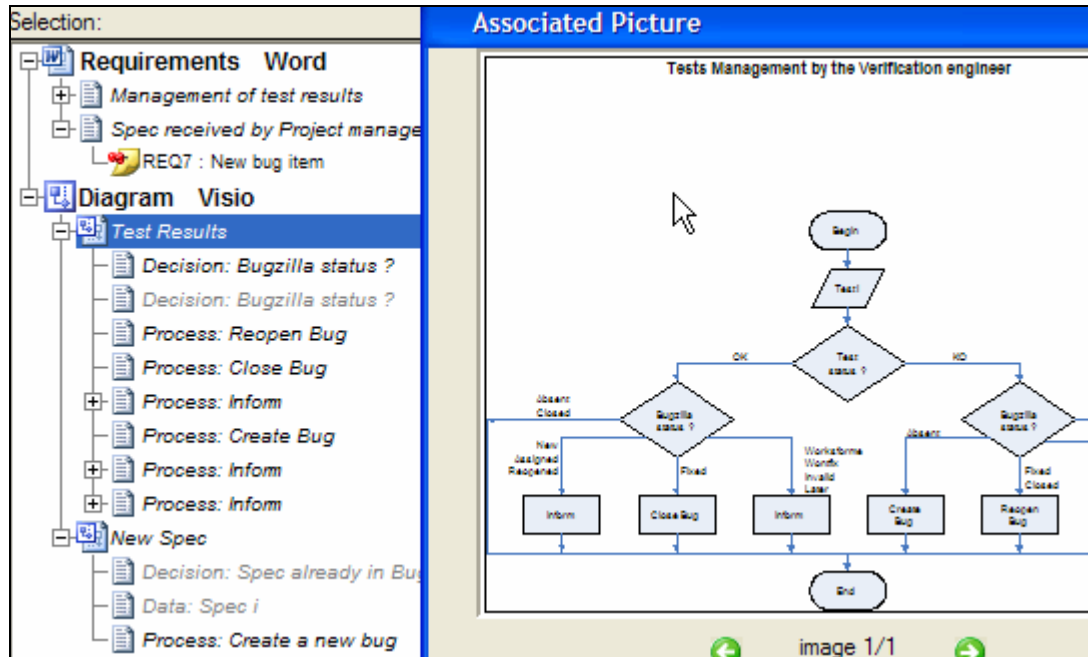
```
Page: Test Results
Image:<path to the .wmf file representing the Visio drawing>
Shape: Decision=Test status ?
Property: Requirements Traceability=(Covers REQ3)
Shape: Data=Test i
...
```

More generally, the intermediate file contains information as follows:

```
Page: <page name>
Image:<path to the .wmf file representing the Visio drawing>
Shape: <type of shape>=<text in the shape>
Property: <property name>=<property value>
(list of properties for the shape)
(list of shapes for the page)
...
Page: <page name>
...
```

Capturing Visio Diagrams

If you select a Visio “page” in the Rhapsody Gateway main window, an additional window opens with the Visio diagram.



Customized Type Definition

New Type Creation

As Visio manages objects and text properties, and Rhapsody Gateway expects requirements, it is necessary to specify how properties can be captured as requirements or references to higher level requirements. This capture can be performed using the definition of Types of Analysis.

Types of analysis also contain definitions of Attributes, Text, etc.

This work can be performed by Application Engineers or the Support Team, but also by advanced users using this *Coupling Note*.

Select **File > Edit Types** to launch the Type Editor and select a Visio based type in the office folder.

Duplicate this type in order to create yours: right-click the Visio type in the Type Editor and select **Duplicate**.

Note

You can use the Visio example to help you.

