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PowerPoint Coupling Notes

Rhapsody[®]

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Gateway Add On**

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Introduction

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

Some standard operations, such as navigating in a PowerPoint file from the Rhapsody Gateway tool, require the PowerPoint 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.

PowerPoint Analysis

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

This chapter covers the following topics:



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



PowerPoint Versions Supported

Rhapsody Gateway supports PowerPoint 97, 2000, 2002, 2003 & 2007 versions.

Selecting the PowerPoint File

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

Details Modification Files Covers			
	Name	Type of Analysis	File or Directory
	PPT Requirements	 PowerPoint	PPT-Demo.ppt

Specific Parameters of a PowerPoint Based Type

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

- ◆ **Show Slides**—This option allows to get an image which displays the contents of the Slide.

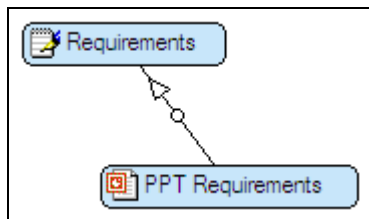
To activate the option, select it then check the checkbox in the **Value** field.

Details Modification Files Covers								
	Name	Type of Analysis	File or Directory	Ig...	In...	Bl...	Variable	Value
	PPT Requirements	PowerPoint	PPT-Demo.ppt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Show Slides	<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

There are many ways to enter traceability information in a document before converting it to PowerPoint.

Entering Traceability Information in PowerPoint

Default configuration of PowerPoint analysis considers:

The following syntax enables the user to define requirements: [REQxx: <requirement label>] in a slide.

- ◆ REQxx is the requirement ID, xx being digits,
- ◆ <requirement name> is the “title” of your requirement, written using natural language.

The following syntax enables the user to define references: [Covers: <requirements>] on a slide or in the Slide notes.

- ◆ Use the string [Covers:...], <requirements> is your requirement ID(s). If you list several requirement IDs, insert , or ; between them. For example, use [Covers: REQ1] or [Covers: REQ1,REQ2,REQ3]
- ◆ If you want to create your references in a PowerPoint document already managed by Rhapsody Gateway as covering your higher level document which contains requirements, select a requirement in this document, right-click the requirement and select **Copy For > Coverage** in the contextual menu

Intermediate File

Rhapsody Gateway creates an intermediate file called `<document_name>.txt`, containing the information extracted from PowerPoint.

You can consider the PowerPoint file `Requirements.ppt` used in the Coupling PowerPoint demo example to analyze how the converter works.

This intermediate file is usually deleted at the end of the conversion process. However you can keep this helpful intermediate file available, for training or customization purpose, by activating this option in the Project Editor.

Details Modification Files Covers							
	Name	Type of Analysis	File or Directory	Ig...	Intermediate file	Bl...	Variable
	PPT Requirements	PowerPoint	PPT-Demo.ppt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Show Slides
							<input checked="" type="checkbox"/>

Basics

The following picture shows an example of traceability inserted on a PowerPoint slide.

Requirements Traceability

- **Coverage of requirements inserted in a Shape**
 - [Covers: REQ1,REQ2]
- **Coverage of a single requirement:**
 - [Covers: REQ3]

A corresponding intermediate file is then created in the **intermediate** sub-directory of the project directory.

```
SLIDE 1
SHAPES

Requirements Powerpoint Interface Demo
NOTES
1

SLIDE 2
SHAPES
Requirement in a slide
Definition of a requirement in the Slide :
[REQ: Demo Requirement in PPT]
NOTES
2

SLIDE 3
SHAPES
Requirements Traceability
Coverage of requirements inserted in a Shape
[Covers: REQ1,REQ2]
Coverage of a single requirement:
[Covers: REQ3]
NOTES
3

SLIDE 4
```

More generally, successively slide by slide the intermediate file contains the following information:

```
SLIDE <slide_number>
SHAPES
Your text
NOTES
Your notes if there are some.
```

Customized Type Definition

New Type Creation

As PowerPoint manages objects and texts, 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 due to 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 thanks to this *Coupling Note* and the *Customization Guide*.

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

Duplicate this type in order to create your own: right-click the PowerPoint type in the Type Editor and select **Duplicate**.

You can find helpful information in the PowerPoint example.

Defining your Own Type of Analysis

The content of the slides and the notes is up to you. Define your own types of capture analysis on the slides and in the notes as you want. Refer to the *Customization Guide* to learn more about this customization.