



Import a Rose model and property sets

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Import a Rose model and property set

This tutorial describes how to import a Rose model and corresponding property sets. It also illustrates how a UML 2.0 profile (Java.epx) created from one model is modified when you import another model that also uses the same UML 2.0 profile.

Learning objectives

Each exercise in this tutorial must be followed in sequence. This tutorial covers the following concepts:

- Import a Rose model that references property sets
- Understand how profiles created from Rose property sets import

15 minutes

Import a Rose model and property set introduction

This tutorial describes how to import a Rose model and corresponding property sets. It also illustrates how a UML 2.0 profile (Java.epx) created from one model is modified when you import another model that also uses the same UML 2.0 profile.

Extended description of tutorial.

Learning objectives

This tutorial uses the Rose model import sample from the Samples Gallery and is divided into two exercises that must be followed in sequence. You will perform the following tasks:

- Examine the imported Java UML 2.0 profile.
- Observe the default_Class stereotype property set.
- Examine the Java.epx version number.
- View a new custom stereotype.

This tutorial should take approximately 15 minutes to finish. If you explore other concepts related to this tutorial, it could take longer to complete.

Prerequisites

In order to complete this tutorial end to end, you should be familiar with the following concepts:

- Rose model properties
- Rose stereotype configuration files
- UML 2.0 profiles

It will also help if you understand:

- The overall Rose model import process
- Stereotypes and how they extend and customize the UML

Module 1: Import a Rose model and property set

In this module, you import the Rose model (RoseSampleModel.mdl) provided in the Samples Gallery and then examine the Java.epx profile created. Specifically, you learn how to check the version of a profile. In addition, you also look at the default__Class stereotype property set defined from the Rose C++ Add-In and see how it looks after import.

Learning objectives

The Rose Model Import wizard converts Rose model property sets and stereotype configuration files to UML 2.0 profiles. UML 2.0 profiles have an .epx file name extension.

After completing the lessons in this module you will know understand the concepts and know how to do the following:

- Import a Rose model
- Examine UML 2.0 profiles to see how they imported from Rose property sets
- Check the version of an imported profile.
- Use the Model Explorer view to look at stereotypes applied to model elements.

This module should take approximately 8 minutes to complete.

Lesson 1.1: Importing the Rose sample models

Provide a short description for this tutorial lesson.

Provide additional context for what they are going to learn and do in this lesson. If the lesson includes more conceptual information (which is usually a good idea) or multiple procedures, use nested concepts and tasks following the taskbody element.

Tip: Avoid writing lessons that only include procedures. You should try to always include "why" or conceptual information.

To import the Rose sample models

1. Import the model by navigating to the Samples Gallery.
2. Expand **Technology samples**, expand **Rose Model Import** and click **Rose model import** sample.
3. On the Rose model import sample page, click **Setup instructions**.
4. Follow the setup instructions and import the first Rose model (RoseImportSample.mdl).

Describe or show the results of the steps they just followed.

Lesson checkpoint

It's a good idea to include this tutorialSummary section here as a checkpoint for the lesson, even if it is very brief.

Describe or summarize what was learned in this lesson. You learned the following:

- About ABCs
- What makes a good ABC
- How to create an ABC using X tool

Lesson 1.2: Examining the imported Java UML 2.0 profile

Once you import the model, use the Model Explorer view and look at the UML 2.0 profiles to see how they were created from Rose property sets and stereotype configuration files.

Specifically, examine the Java.epx file to learn about the profile versioning mechanism.

To examine the Java.epx file:

1. In the Model Explorer view, expand the **SampleRoseModel_profiles** project and observe the generated profiles to understand how property sets and stereotype configuration files import as UML 2.0 profiles.
2. Navigate to the **Java.epx** profile. Notice how the stereotypes, properties, and enumerations are structured and correspond to similar elements in the original Rose model properties.
3. In the Model Explorer view, click the **Java** profile element that resides directly under the Java.epx file.
4. In the Properties view, click the **General** tab and notice the profile version number of 8.2. This number will become more meaningful in Exercise 2 because you will import another model that references the same profile, which will cause the version number to change.

If you have already imported a Rose model in your same workspace that contains the Java.epx profile, the profile version number may be different than 8.2. The number may be different for other reasons as well. For example, if you are importing a model from a version of Rose other than 2003.06.13, the profile version number may be different than 8.2.

Lesson checkpoint

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Exercise 1.3: Observing the default__Class property set stereotype

Once you import the model, use the Model Explorer view to look at the stereotypes applied to the CLoanDataSet class.

Context needed.

1. In the imported model (RoseImportSample.mdl), open the **Start Here** diagram located in the Logical View package.
2. Double-click the hyperlinked **06.1 C++ Implementation Package Overview** diagram note to jump to the diagram in the model.
3. In the diagram editor, click the **CLoanDataSet** class and then click the Stereotypes tab in the Properties view.
4. Observe the **default (default__Class)** stereotype created from the ANSI C++ Add-in **default__Class** property set. The stereotype properties are displayed in the **Stereotype Properties** table, including the body (**BodySourceFile**) and header (**HeaderSourceFile**) source file names.
5. Close the model and all profiles to prepare for the next exercise.

Now you are ready to add content to an existing profile (Java.epx) in Exercise 2.

Lesson checkpoint

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If you want to provide a type of assessment (for example a set of self-assess questions), it can go here.

Module 2: Adding content to an existing profile

This module examines how the Rose Model Import wizard adds content to an existing profile (Java.epx) when another model (RoseImportSample_custom.mdl) uses additional stereotypes or properties. The exercise also looks at a new custom stereotype applied to the model.

The profile versioning and release mechanism is helpful because it allows one model to reference one version of a profile, while another model can reference a different version of the same profile.

Learning objectives

After completing the lessons in this module you will know understand the concepts and know how to do the following:

- Import a second Rose model that shares a common profile
- Examine a modified release number of a profile.
- Observe how custom stereotypes import.

This module should take approximately 10 minutes to complete.

Prerequisites

Before you import the RoseImportSample_custom.mdl file, you must import the RoseImportSample.mdl file in Module 1. When you import the RoseImportSample_custom.mdl file, you add additional content to an existing profile, which causes the Rose Model Import wizard to create a new version of the Java.epx profile.

Importing the second Rose sample model (RoseImportSample_custom.mdl)

Provide a short description for this tutorial lesson.

Before you import the RoseImportSample_custom.mdl file, you must import the RoseImportSample.mdl file in Exercise 1.

When you import the RoseImportSample_custom.mdl file, you add additional content to an existing profile, which causes the Rose Model Import wizard to create a new version of the Java.epx profile.

To import the second Rose sample model:

1. In the Navigator view, click the **RoseImportSample_custom.mdl** file that resides in the **SampleRoseModel** project.
2. Click **File > Import**. The Import window opens.
3. Click **Rational Rose Model**, and then click **Next**. The Import a Rose Model window opens.
4. Click the source model **Browse** button, specify the **RoseImportSample_custom.mdl** file, and then click Open.
5. Verify that **SampleRoseModel** is selected as the existing project, and then click Next. The RoseImportSample_custome.mdl file is scanned and existing profiles are verified for compatibility with the model you are importing (as displayed in the progress bar).
6. When the progress bar closes, notice that the **Finish** button on the Resolve Subunits and Path map symbols page is not enabled as it was in Exercise 1. You cannot finish the import process at this step

because the next page of the wizard displays a warning message in the header of the wizard. Click **Next** to advance to the Map Property Sets page and to view the warning message.

7. On the Map Property Sets page, notice the warning message that states, The existing profile Java.epx must have the following elements added from the Java properties of the model: The Custom_EJB property set stereotype is not defined. The warning message appears because the existing Java.epx file (created when you imported RoseImportSample.mdl in exercise 1) requires some information from the RoseImportSample_custom.mdl file.
8. On the Map Property Sets page, complete all of the following steps:
 - a. Verify that the **Import property sets as UML profiles** option is selected.
 - b. Make sure that the **Reference an existing profile** option is selected and that the filepath references the existing Java.epx file. If the Java.epx profile is checked in to a source control system, a message window opens indicating that the file must be checked out (after you click **Finish**).
 - c. Click **Finish**.

The Java.epx profile is updated and saved as a new released version; the RoseImportSample_custom.mdl is imported.

Lesson checkpoint

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Exercise 2.2: Examining the Java.epx release number

Once you have imported the RoseImportSample_custom.mdl file, notice how the profile release number changed.

Provide additional context for what they are going to learn and do in this lesson. If the lesson includes more conceptual information (which is usually a good idea) or multiple procedures, use nested concepts and tasks following the taskbody element.

To examine the Java.epx release number:

1. In the Model Explorer view, expand the **SampleRoseModel_Profiles** folder, navigate to the Java.epx file, and click the Java profile element that resides under the Java.epx file.
2. In the Properties view, click the **General** tab and notice the profile release number of 8.2.1 .

Describe or show the results of the steps they just followed.

Lesson checkpoint

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Exercise 2.3: Observing a new custom stereotype

Once you have imported the `RoseImportSample_custom.mdl` file, notice how the `EJBSession__class` stereotype is applied, how the `default__Class` stereotype provides the default Java add-in properties, and how the `Custom_EJB__Class` applies the "cg_style" for the class.

Provide additional context for what they are going to learn and do in this lesson. If the lesson includes more conceptual information (which is usually a good idea) or multiple procedures, use nested concepts and tasks following the taskbody element.

To create a new ABC:

1. In the Model Explorer view, expand the Java profile element and navigate to the new `Custom_EJB__Class` stereotype that implements the "Custom_EJB" property set cloned from the "Default_EJB" set in this model.
2. In the Model Explorer view, navigate to the `RoseImportSample_custom.mdl`, and then open the Start Here diagram located in the Logical View.
3. Double-click the hyperlinked note under Loan System EJBs to jump to the `ejb` Package Overview diagram.
4. In the diagram editor, click the `LoanManagerBean` session bean, and then click the **Stereotype** tab in the Properties view and observe the following information:
 - a. The `EJBSession__class` stereotype is applied, which provides the bean shape in the diagram editor
 - b. The `default__Class` stereotype provides the default Java add-in properties
 - c. The `Custom_EJB__Class` applies the "cg_style" for the class. In Rose, the "Custom_EJB" property set was cloned from the "Default_EJB" set.

Describe or show the results of the steps they just followed.

Lesson checkpoint

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Summary

Well done. This tutorial has taught you how Rose property sets and stereotype configuration files import asUML 2.0 profiles.

Provide extended summary information here.

Lessons learned

If you have completed all of the exercises, you should now be able to perform the following activities:

- Import a Rose model.
- Find a profile version number.
- Generate UML 2.0 profiles from a Rose model.

Additional resources

If you want to learn more about the topics covered in this tutorial, consider the following sources:

- White papers on IBM developerWorks
- Rose model import topics in the online help system

Related information

ibm.com

eclipse.org