

Microsoft Repository Integration

Background Information

Cayenne Software has committed to develop an integration between a number of its products and the Microsoft Repository. The Microsoft Repository is an enabling technology for defining information models, its major parts are:

- the repository engine offering services to access and manage the repository itself and the information it stores.
- the Type Information Model

The information model that is used to define all other information models like the UML model.

The repository is a database, that stores and shares components, models, objects and relationships along with their descriptive information.

The integration offers a fairly complete exchange of the models.

The Microsoft Repository can be used as a mechanism to exchange models between tools.

Functionality

This integration enables the user to exchange Model information from and to the MS-Repository.

The following model information can be exchanged:

1. Classes
2. Attributes, Operations and Parameters
3. Attribute-, Operation- and Parameter type expressions
4. Generalizations
5. Associations and its Roles
6. ObjectTeam free text properties are mapped to Comments in the Microsoft Repository
7. A number of UML property mappings are defined

Requirements

The integration runs under the following conditions:

1. ObjectTeam V6.1.1 or higher
2. ObjectTeam WindowsNT 4.0 or UNIX server
3. ObjectTeam Windows95 or WindowsNT 4.0 client
4. The MS-Repository version 1.0, which is part of Visual Basic V5.0 enterprise edition, including MSAccess. For creating a new MS Repository, UML Tim needs to be registered.

Contents of <M4_home>\modules\msrepository

This directory contains the integration of ObjectTeam with the MS-Repository, consisting of:

1. a setup file, called setup.bat
2. tcl directory containing a number of Tcl files
3. etc directory with the menu file (desk.mnu) with extensions to the standard ObjectTeam menu
4. bin directory with a library called ObjectTeamMsRepUml.dll

Installation

Before the integration can be used, the supplied library *ObjectTeamMsRepUml.dll* needs to be registered, which is needed to communicate via OLE from Tcl with the MS-Repository. This is done by running the supplied file *setup.bat*

Usage

After installation the Utilities menu of ObjectTeam is extended with an 'Export to MSRepository' menu, when at config level and when at phase level.

When on phase level also with an ‘Import from MSRepository’

Exporting

When selecting ‘Export to MSRepository’ at config level all the systems within the selected phase are exported.

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Importing

When selecting ‘Import from MSRepository’, first a MSRepository needs to be chosen (Access MDB file), next a model needs to be selected, then for all the packages within that model an ObjectTeam system is created.