

Cameo Concept Modeler Documentation

Cameo Concept Modeler (Concept Modeler) is a plugin for MagicDraw, the award-winning software modeling tool. It is designed to model real-world concepts, import/export a model from/to an OWL ontology, and generate glossaries in plain English for clearer and more informative source of knowledge for any domain.

19.0 LTR Version News

What's New in Cameo Concept Modeler 18.0 LTR SP13

Cameo Concept Modeler (CCM) Quick Start Guide

Introduction

- MDA
- Concept modeling purpose
- The role of ontologies and reasoners
- Open-world assumption vs. closed-world assumption
- Information modeling purpose

Concept Modeling Semantics

- Classes
- Property ownership
- Global properties
- Subproperty
- Generalization
 - Overlapping and incomplete subclasses
 - Disjoint subclasses
 - Complete subclasses
 - Disjoint and complete subclasses
- Anonymous union classes
- Inverse properties
- Property restrictions
 - Existential quantification constraint
 - Universal quantification constraint
 - Cascading restrictions
- Annotation and annotation properties
- Preferred Annotation Property
- Property chain
- Equivalent properties
- Equivalent classes
- Multiplicities
- IRI tagged value
 - Effective IRI meta-property
 - Synchronize UML Package URI and Resource IRI
- Cardinality restrictions
- Complement Of
- Concept model export URI style
- OWL export folder
- Conditions
- Importing OWL

UML to Equivalent OWL in OWL Functional Syntax

- Class
- Class generalization
- Generalization with disjoint subclasses
- Generalization with subclass completeness
- Anonymous union class
- Class with Datatype property
- Class with Self-Referential Object Property
- Class with object property
- Property holder with datatype property
- Property holder with self-referential object property
- Property holder with object property
- Class with object property without range
- Class with subproperty
- Class with universal quantification constraint on property I
- Class with universal quantification constraint on property II
- Class with existential quantification constraint on property
- Property holder with self-referential subproperty
- Property holder with subproperty
- Class with subproperty without a range

- Class with necessary and sufficient property
- Class with property having unspecified multiplicity
- Class with inverse property
- Annotation and annotation property
- Asymmetrical inverse property
- Disjoint classes
- Property chains
- Equivalent property
- Equivalent class
- Class with Asymmetric Object Property
- Class with Functional Object Property
- Class with Inverse Functional Object Property
- Class with Irreflexive Object Property
- Class with Reflexive Object Property
- Class with Transitive Object Property
- Property with a maximum but no minimum cardinality
- Property with multiple domains and ranges
- Property restriction from a different namespace

Natural Language Glossary

- Equivalent classes in NLG

Usage

- Creating a concept modeling project
- Creating a concept model
 - Converting a UML model into a concept model
 - Creating a property chain
 - Deleting a property chain
 - Editing a property chain
 - Creating equivalent properties
 - Deleting an equivalent property
 - Editing an equivalent property
 - Creating equivalent classes
- Creating an XML catalog file
- Importing an OWL ontology to a concept model
 - Updating the XML catalog file
 - Setting the OWL import catalog in MagicDraw
 - Setting a path variable to share OWL import catalog files
 - Using a path variable to share OWL import catalog files
 - Importing an OWL ontology file
 - Importing annotations on an OWL ontology to a concept model
 - Displaying and hiding IRI
- Logging during OWL importing and exporting
- Adding a concept model to Teamwork Cloud and export it as an OWL ontology
 - Adding a concept model to Teamwork Cloud
 - Exporting a concept model from TWCloud to an OWL ontology
- Exporting your concept model to an OWL ontology
 - Setting destination for the OWL export folder
 - Setting the concept model export syntax
 - Setting the concept model export URI style
 - Setting the concept model URI
 - Specifying file export paths
 - Specifying IRI ontology versions
 - Use Path Variables to Export a Concept Model to an OWL Ontology
 - Exporting your concept model
 - Exporting models and concept models at any level in package hierarchy
 - View the CCM watermark in an exported OWL
- Automatically Generating Glossaries
- Creating a glossary table
- Rebuilding a glossary table
- Viewing a glossary
- Creating a property holder
- Universal quantification constrains for an existing property
 - Adding a universal quantification
 - Removing a universal quantification
- Working with subproperties
- Creating an existential quantification (qualified) constraint for a property
- Redefined property
- Go To Subsetted property
- Creating a necessary and sufficient condition
- Working with subclasses
 - Making subclasses disjoint
 - Making subclasses complete
 - Making subclasses overlapping
 - Making subclasses incomplete
- Working with the Natural Language Glossary
 - Generating a natural language glossary

- Exploring the Natural Language Glossary
 - Customizing your Natural Language Glossary
 - Including property definitions in the Natural Language Glossary
 - Selecting an ordered list of annotation properties
 - Variables of the natural language glossary
- Adding property subsetting
- Removing property subsetting
- Using Concept Modeling Capabilities with non-CCM projects
- Existing Project Migration
 - Migrate Older Models to Use Relative IRIs
 - Updating symbol styles in older projects
- Working with annotations
 - Creating annotations
 - Showing annotations on the diagram
 - Showing an annotation in the Documentation pane
 - Working with annotation properties
 - Applying an annotation stereotype to a comment
 - Associating an annotation property with an annotation
 - Defining an annotation property
 - Importing an ontology that defines annotation properties
 - Selecting a Preferred Annotation Property for a UML Comment or Annotation
- Working with Complement Of
- Importing an OWL ontology into a non-CCM project
- Creating a datatype property