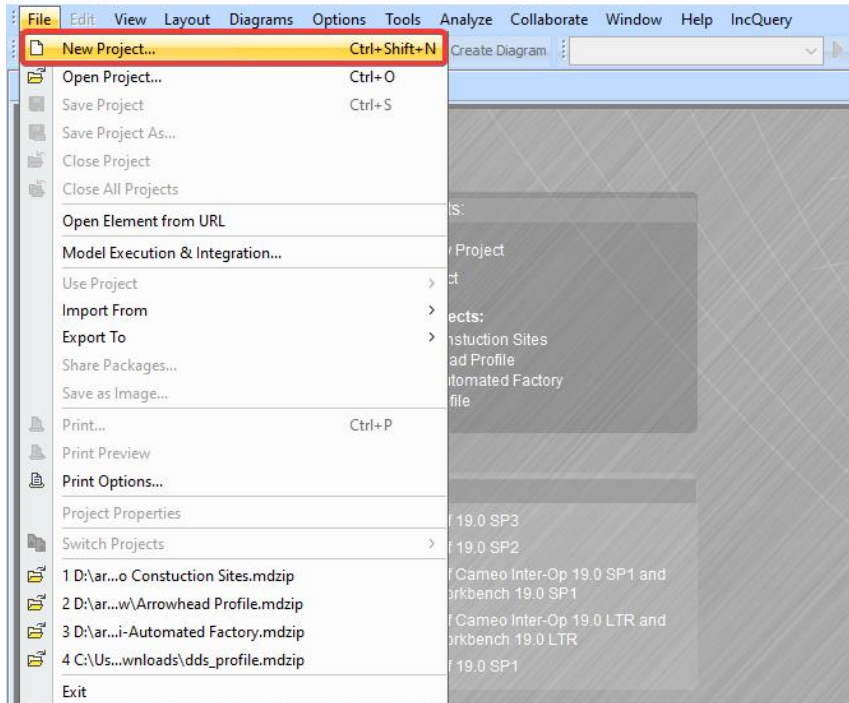


1: Create a new project

Cameo Systems Modeler 19.0




What's New

Resources


Samples


1: Create a new project


 New Project ✕


Create a new blank SysML project


Systems Modeling Language (SysML) is designed for systems engineering applications. Creating a SysML project will switch application to the SysML graphical user interface and will use the SysML model templates. Specify a project name, select a location to store the newly created project, and press OK.







Systems Engineering 



SysML Project


MagicGrid QuickStart


MagicGrid Blank






Software Engineering 
Business Process Modeling 
Simulation 
Other 


Name:


Project location: 

☐ Create directory for project and related data

SysML Project Options

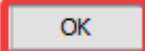
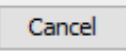
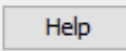


 **General**

 Use Basic Units Library ☐ false

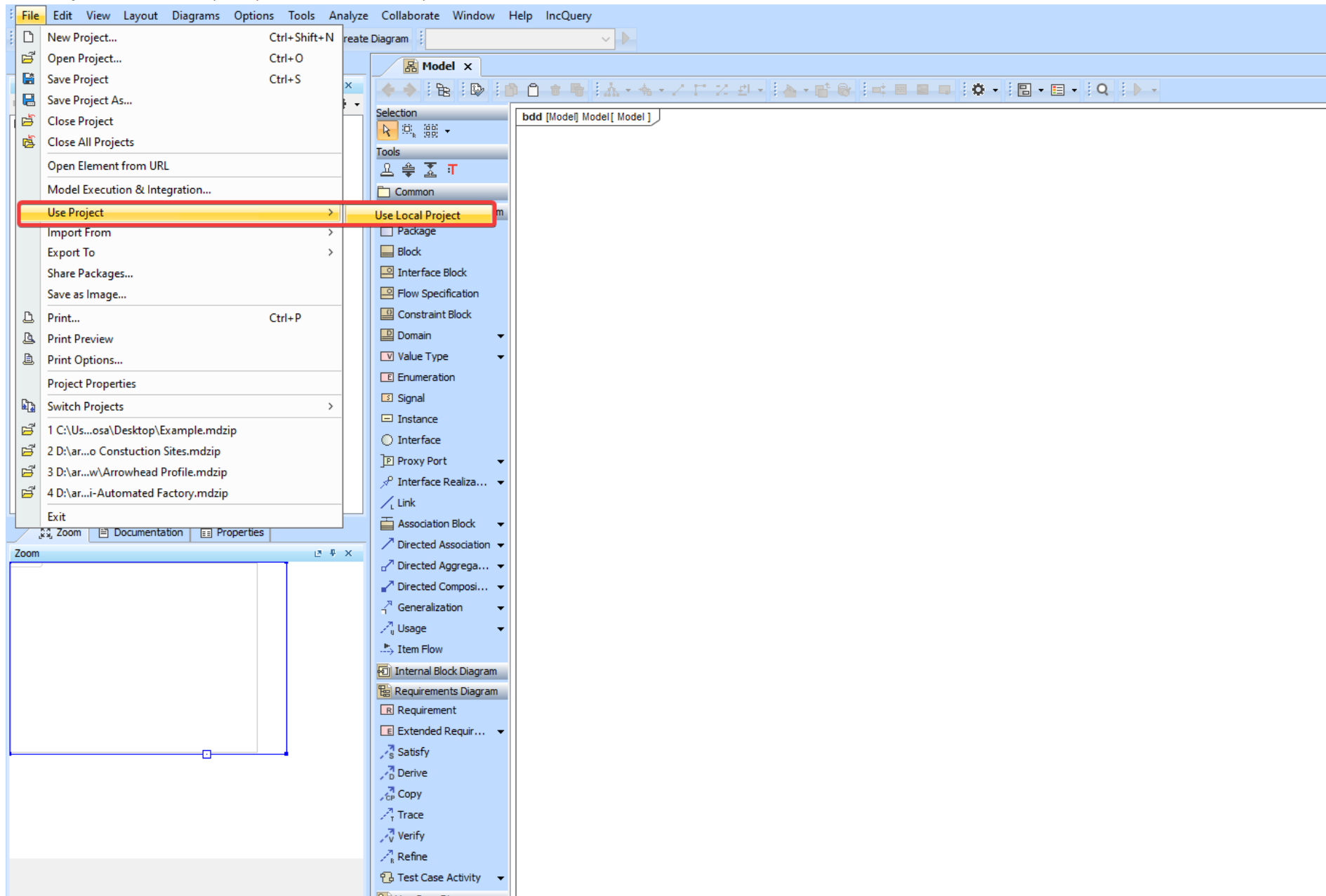
Use Basic Units Library

Set to true to use the basic SI, US customary, naval and imperial units from the "ISO-80000" and "ISO-80000-Extension" libraries.


  

2: Import the Arrowhead Profile

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]




2: Import the Arrowhead Profile

 Use Project ✕

Select a project to use

Select a project from the file system or predefined location (paths to used projects) and click 'Next' to proceed. Predefined locations help finding default application profiles and libraries.



☒ **1. Select project** **1.**

☐ **2. Specify usage options**

Select a project to use

☒ **From file system**

☐ From predefined location

Project file:

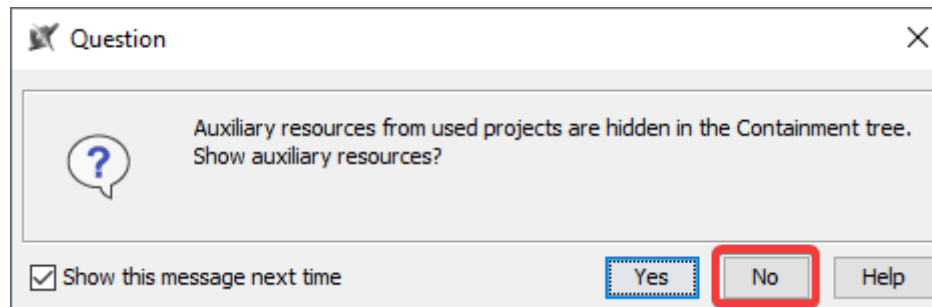
D:\arrowhead-tools\MagicDraw\Arrowhead Profile.mdzip **2.** ...

Project description:

3.

< Back Next > **Finish** Cancel Help

3: Don't worry about auxiliary resources



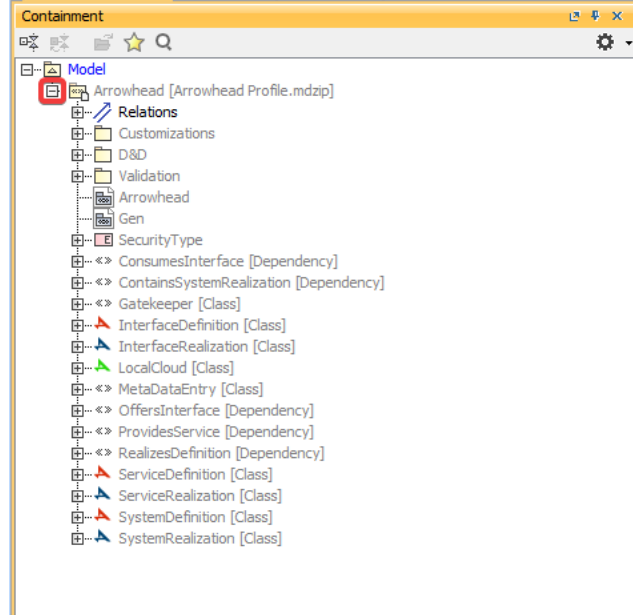
4: Open the package containing the stereotypes

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram

Containment Diagrams Structure

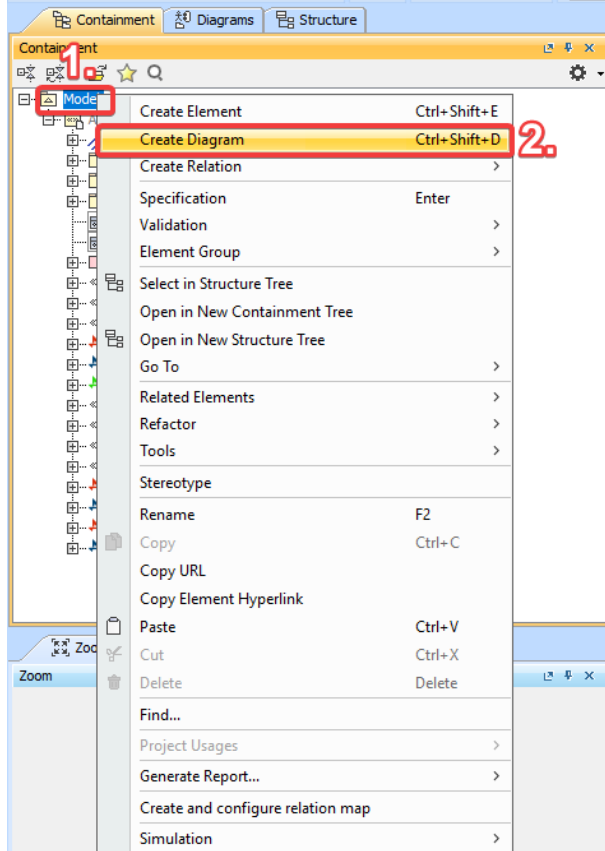


Zoom Documentation Properties

Zoom

5: Create the BDD

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]



5: Create the BDD

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram

Containment Diagrams Structure

Containment

Create Diagram:

- General
 - Requirement Diagram
 - Requirement Table
 - SysML Activity Diagram
 - SysML Block Definition Diagram**
 - SysML Internal Block Diagram
 - SysML Package Diagram
 - SysML Parametric Diagram
 - SysML State Machine Diagram
 - SysML Use Case Diagram
- Analysis Diagrams
 - SysML Allocation Matrix
 - Satisfy Requirement Matrix
 - Verify Requirement Matrix
- Other Diagrams
 - Generic Table
 - Instance Table
 - Metric Table
 - Glossary Table
 - Free Form Diagram
- Simulation
 - Simulation Configuration Diagram
- UML Diagrams

☒ Expert

Name it whatever

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

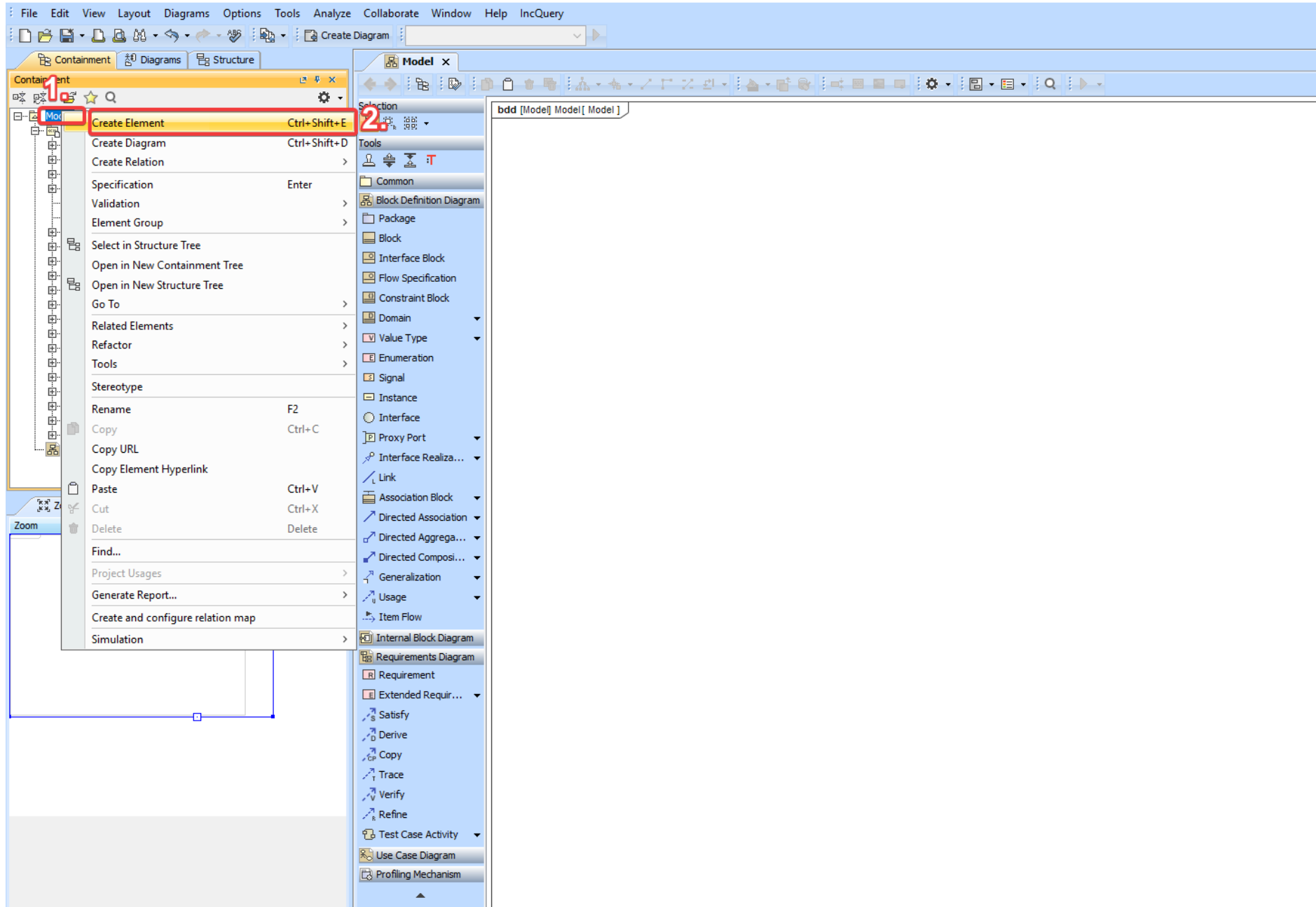
The screenshot displays the Cameo Systems Modeler 19.0 interface. The top menu bar includes File, Edit, View, Layout, Diagrams, Options, Tools, Analyze, Collaborate, Window, Help, and IncQuery. Below the menu is a toolbar with icons for file operations and diagram creation. The main workspace is divided into three panes:

- Containment Browser (Left):** Shows a hierarchical tree of the model. The 'Model' node is selected and highlighted with a red rectangle. The tree includes folders like 'Relations', 'Customizations', 'D&D', 'Validation', and 'Gen', as well as various system elements like 'Arrowhead', 'SecurityType', and 'SystemRealization'.
- Selection Tool (Middle):** A vertical toolbar with icons for different diagram types and relationships. The 'Block Definition Diagram' (bdd) icon is selected. Other options include Package, Block, Interface Block, Flow Specification, Constraint Block, Domain, Value Type, Enumeration, Signal, Instance, Interface, Proxy Port, Interface Realization, Link, Association Block, Directed Association, Directed Aggregation, Directed Composition, Generalization, Usage, Item Flow, Internal Block Diagram, Requirements Diagram, Requirement, Extended Requirement, Satisfy, Derive, Copy, Trace, Verify, Refine, Test Case Activity, and Use Case Diagram.
- Diagram Canvas (Right):** A large empty area for creating and editing diagrams. The title bar of the canvas shows 'bdd [Model] Model [Model]'.

At the bottom of the interface, there is a 'Zoom' pane with a blue border and a 'Properties' pane with a blue border. The 'Zoom' pane is currently empty, and the 'Properties' pane is also empty.

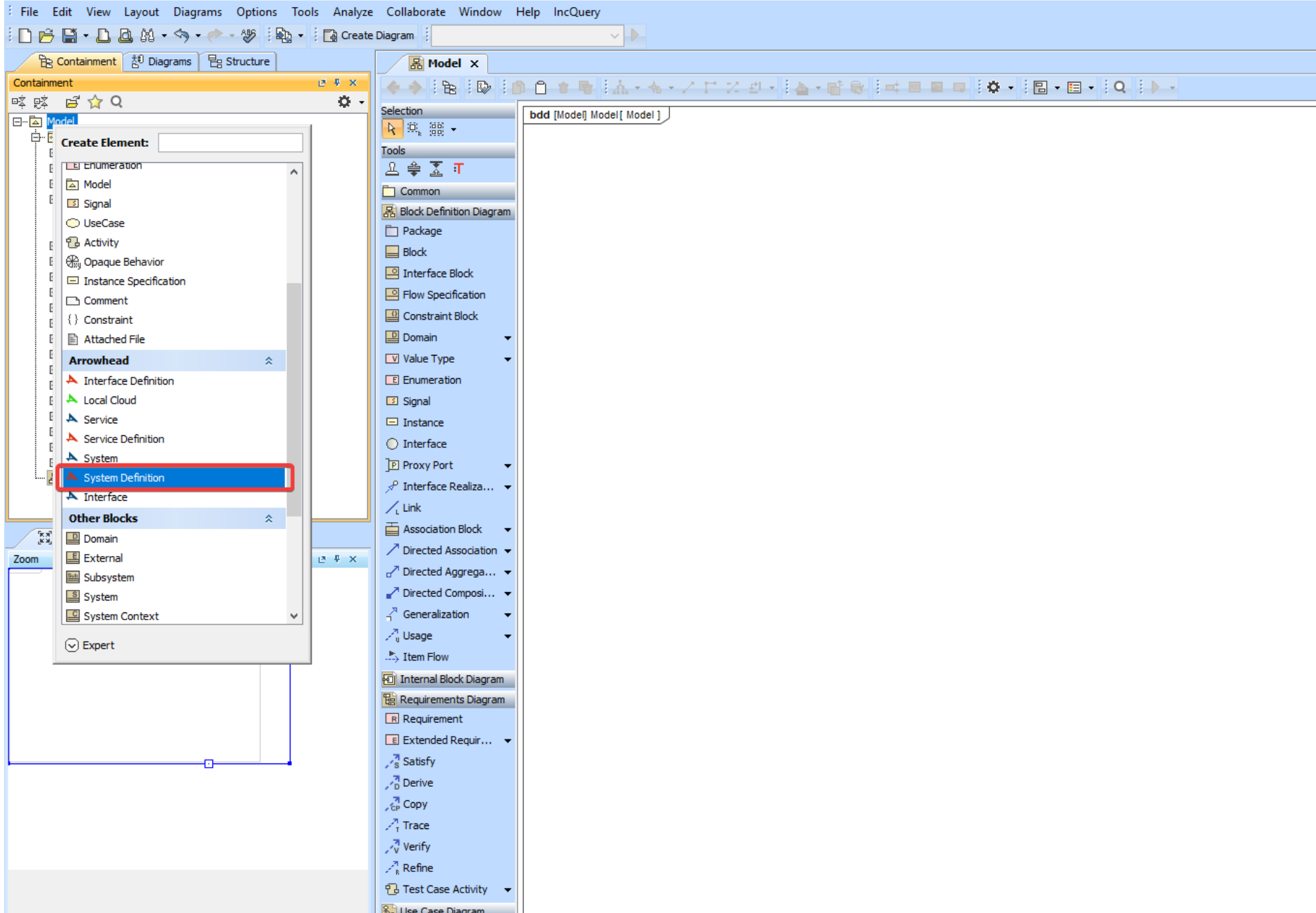
6: Create the System Definition

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]



6: Create the System Definition

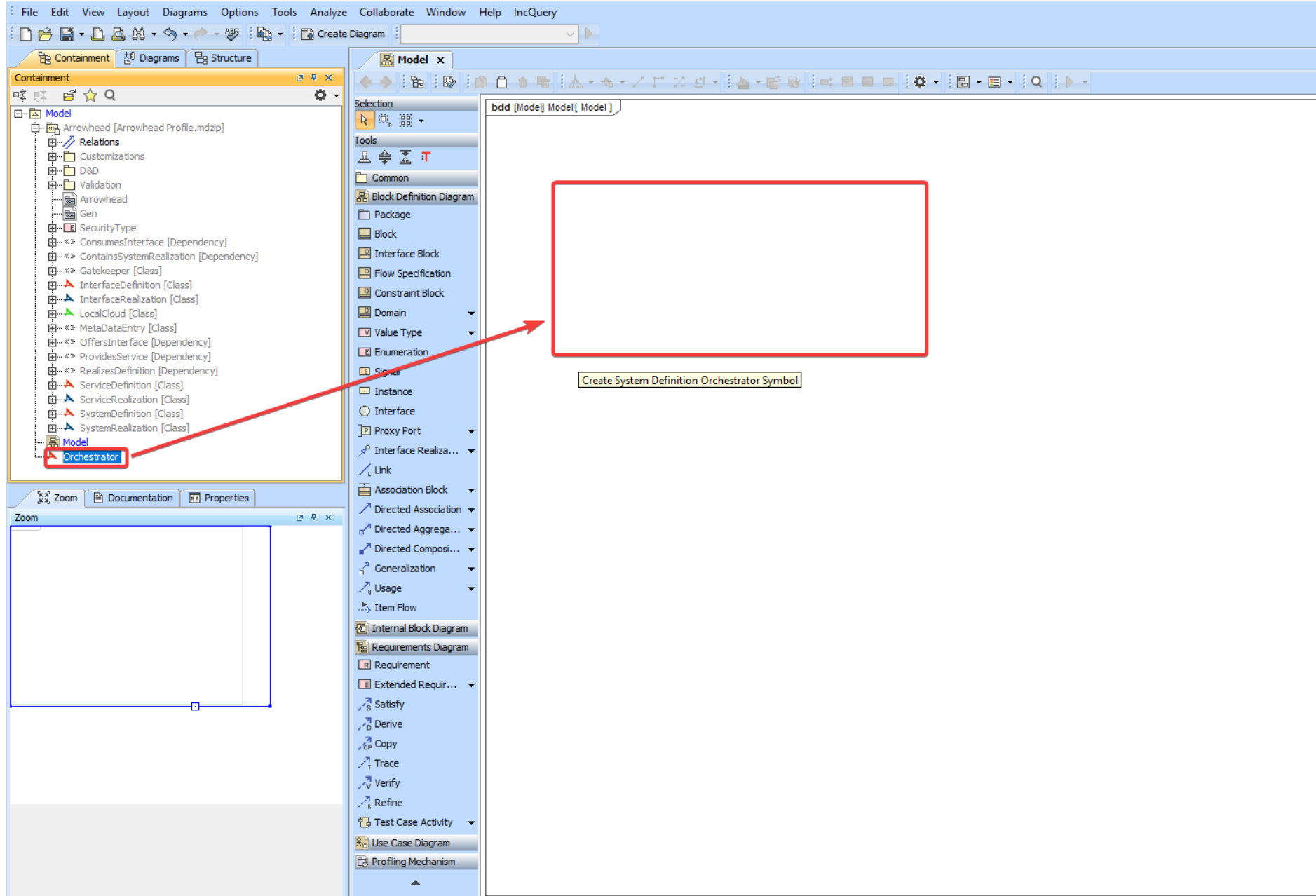
Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]



Name it, then

7: Drag & Drop it on the diagram

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]



8: Create the System Realization

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram

Containment Diagrams Structure

1

Model

Create Element Ctrl+Shift+E

Create Diagram Ctrl+Shift+D

Create Relation

Specification Enter

Validation

Element Group

Select in Structure Tree

Open in New Containment Tree

Open in New Structure Tree

Go To

Related Elements

Refactor

Tools

Stereotype

Rename F2

Copy Ctrl+C

Copy URL

Copy Element Hyperlink

Paste Ctrl+V

Cut Ctrl+X

Delete Delete

Find...

Project Usages

Generate Report...

Create and configure relation map

Simulation

Model x

Selection

Tools

Common

Block Definition Diagram

Package

Block

Interface Block

Flow Specification

Constraint Block

Domain

Value Type

Enumeration

Signal

Instance

Interface

Proxy Port

Interface Realiza...

Link

Association Block

Directed Association

Directed Aggrega...

Directed Composi...

Generalization

Usage

Item Flow

Internal Block Diagram

Requirements Diagram

Requirement

Extended Requir...

Satisfy

Derive

Copy

Trace

Verify

Refine

Test Case Activity

Use Case Diagram

Profiling Mechanism

bdd [Model] Model [Model]

8: Create the System Realization

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram

Containment Diagrams Structure

Model

Create Element:

Smart Package

Enumeration

Model

Signal

UseCase

Activity

Opaque Behavior

Instance Specification

Comment

Constraint

Attached File

Arrowhead

Interface Definition

Local Cloud

Service

Service Definition

System

System Definition

Interface

Other Blocks

Domain

External

Subsystem

Expert

Zoom

Model

Model

Model

Model

Model

Model

Model

Model

Model

Selection

Tools

Common

Block Definition Diagram

Package

Block

Interface Block

Flow Specification

Constraint Block

Domain

Value Type

Enumeration

Signal

Instance

Interface

Proxy Port

Interface Realiza...

Link

Association Block

Directed Association

Directed Aggrega...

Directed Composi...

Generalization

Usage

Item Flow

Internal Block Diagram

Requirements Diagram

Requirement

Extended Requir...

Satisfy

Derive

Copy

Trace

Verify

Refine

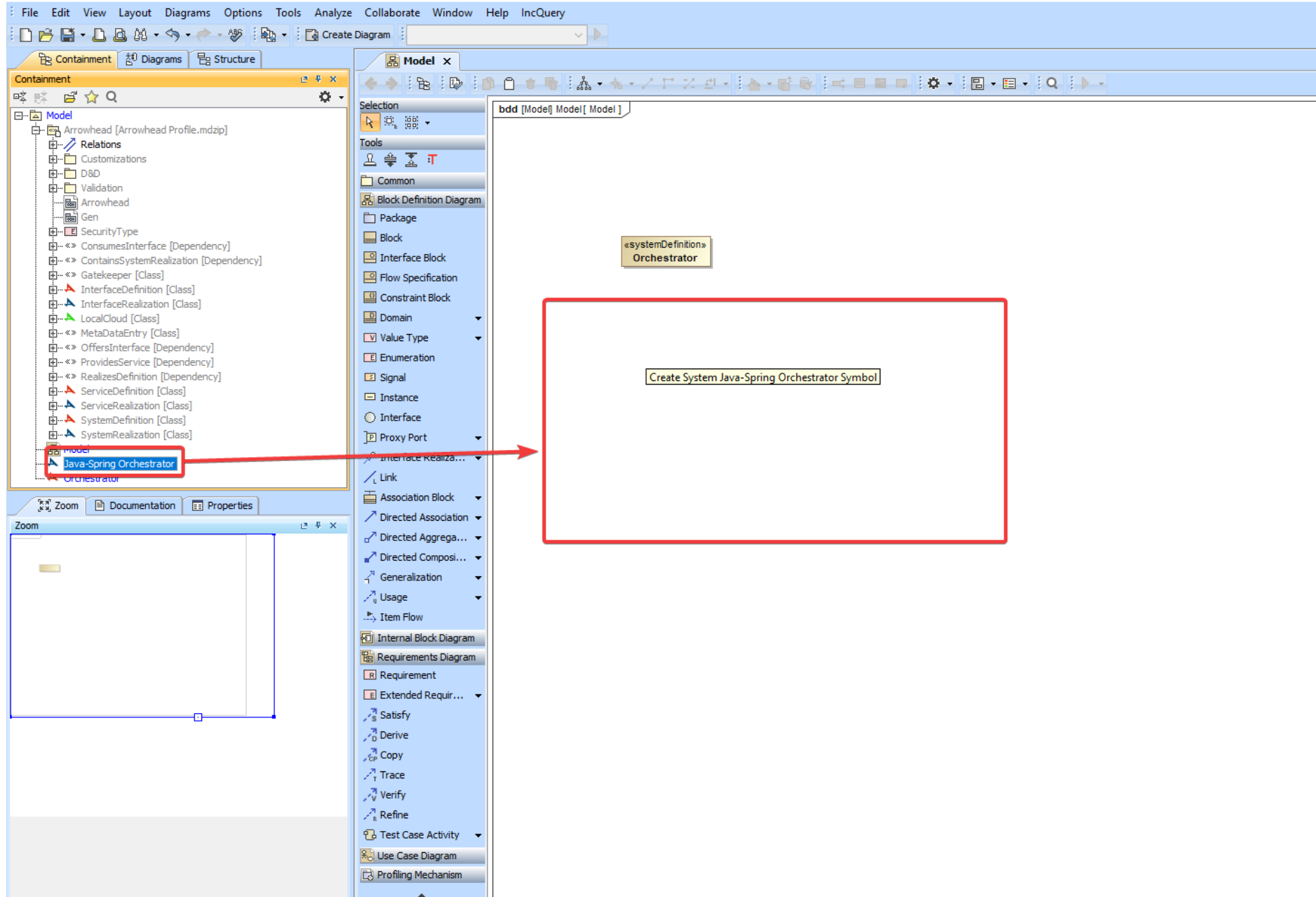
bdd [Model] Model [Model]

«systemDefinition»
Orchestrator

Name it, then

9: Drag & Drop it on the diagram

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]



10: Adding the edge

10.1: Open the “Common” tab by clicking on it

10.2: Click on the dependency, see the cursor change

10.3: Click on the source element

Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram

Diagrams Structure

Model x

Arrowhead Profile.mdzip]

ations

ad

ype

Interface [Dependency]

SystemRealization [Dependency]

er [Class]

Definition [Class]

Realization [Class]

ud [Class]

Entry [Class]

Interface [Dependency]

Service [Dependency]

Definition [Dependency]

Definition [Class]

Realization [Class]

Definition [Class]

Realization [Class]

Orchestrator

Documentation Properties

Model x

Selection

Tools

Common

Local Cloud

Note

Comment

Problem

Rationale

Element Group

Constraint

Containment

Abstraction

Dependency

Allocate

Block Definition Diagram

Package

Block

Interface Block

Flow Specification

Constraint Block

Domain

Value Type

Enumeration

Signal

Instance

Interface

Internal Block Diagram

Requirements Diagram

Requirement

Extended Requir...

Satisfy

bdd [Model] Model[Model]

«systemDefinition»
Orchestrator

«system»
Java-Spring Orchestrator

10: Adding the edge

10.4: Click on the target element

0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Selection Tools

Structure

Profile.mdzip]

[Dependency]

alization [Dependency]

[Class]

n [Class]

ass]

ependency]

ependency]

Dependency]

Class]

[Class]

Class]

[Class]

tor

ion Properties

Selection Tools



Model x

Selection

Tools

Common

Local Cloud

Note

Comment

Problem

Rationale

Element Group

Constraint

Containment

Abstraction

Dependency

Allocate

Block Definition Diagram

Package

Block

Interface Block

Flow Specification

Constraint Block

Domain

Value Type

Enumeration

Signal

Instance

Interface

Internal Block Diagram

Requirements Diagram

Requirement

Extended Requir...

Satisfy

Derive

Copy

bdd [Model] Model[Model]

«systemDefinition»
Orchestrator

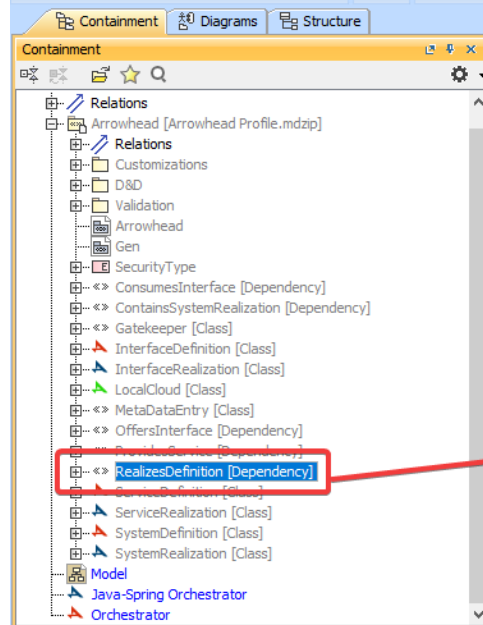
«system»
Java-Spring Orchestrator

11: Add the stereotype onto the dependency by Drag & Dropping it from the outline

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

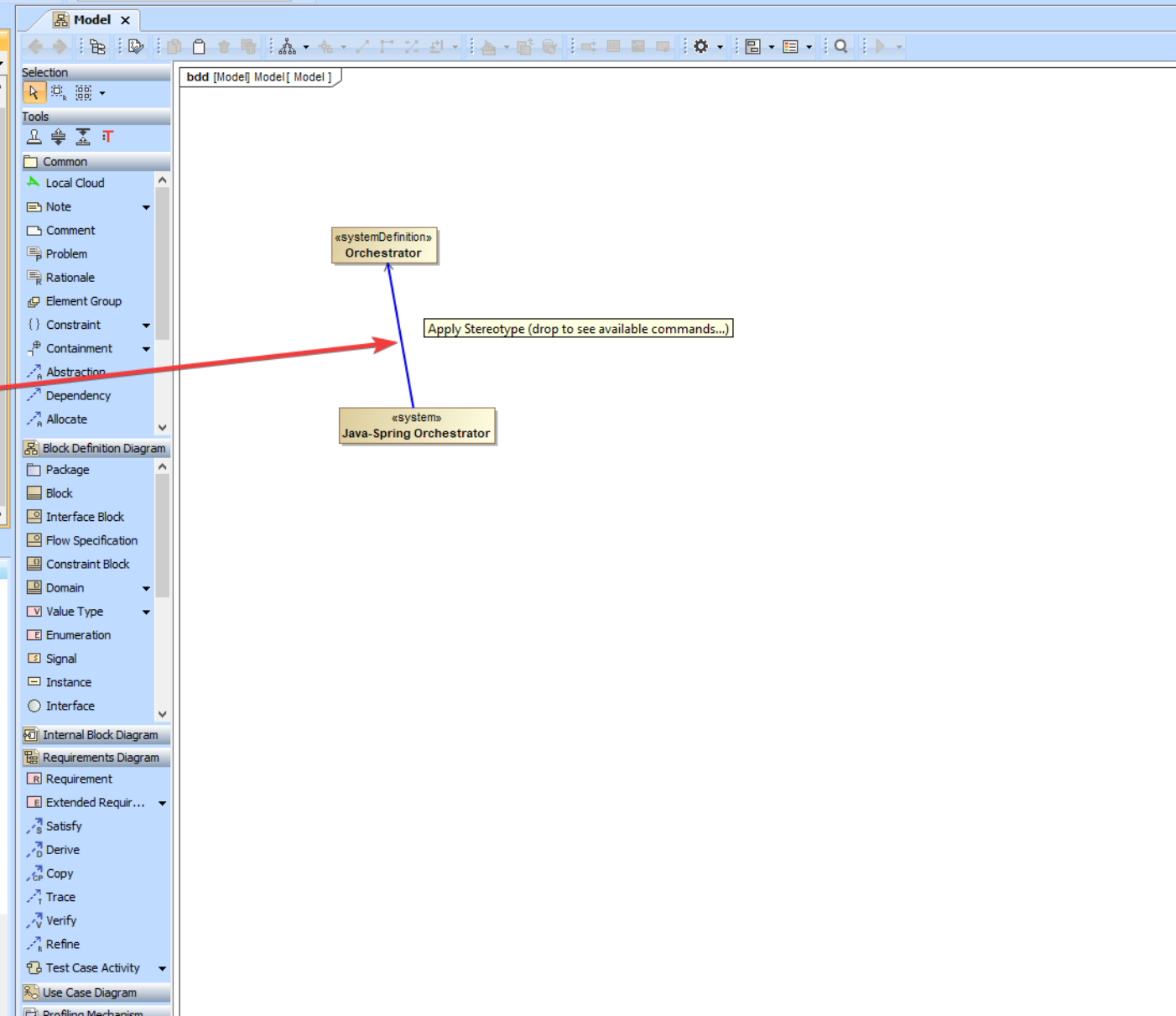
File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Create Diagram



Zoom Documentation Properties

Zoom



12: Don't forget to save

Cameo Systems Modeler 19.0 - Example.mdzip [C:\Users\Koltai Kadosa\Desktop\]

File Edit View Layout Diagrams Options Tools Analyze Collaborate Window Help IncQuery

Containment Diagrams Structure

Containment

- Relations
- Arrowhead [Arrowhead Profile.mdzip]
- Relations
 - Customizations
 - D&D
 - Validation
 - Arrowhead
 - Gen
 - SecurityType
 - ConsumesInterface [Dependency]
 - ContainsSystemRealization [Dependency]
 - Gatekeeper [Class]
 - InterfaceDefinition [Class]
 - InterfaceRealization [Class]
 - LocalCloud [Class]
 - MetadataEntry [Class]
 - OffersInterface [Dependency]
 - ProvidesService [Dependency]
 - RealizesDefinition [Dependency]**
 - ServiceDefinition [Class]
 - ServiceRealization [Class]
 - SystemDefinition [Class]
 - SystemRealization [Class]
- Model
 - Java-Spring Orchestrator
 - Orchestrator

Tools

- Common
 - Local Cloud
 - Note
 - Comment
 - Problem
 - Rationale
 - Element Group
 - Constraint
 - Containment
 - Abstraction
 - Dependency
 - Allocate
- Block Definition Diagram
 - Package
 - Block
 - Interface Block
 - Flow Specification
 - Constraint Block
 - Domain
 - Value Type
 - Enumeration
 - Signal
 - Instance
 - Interface
- Internal Block Diagram
- Requirements Diagram
 - Requirement
 - Extended Requir...
 - Satisfy
 - Derive
 - Copy
 - Trace
 - Verify
 - Refine
- Test Case Activity
- Use Case Diagram
- Profiling Mechanism

bdd [Model] Model [Model]

«systemDefinition»
Orchestrator

«realizes»

«system»
Java-Spring Orchestrator

Zoom Documentation Properties

Zoom

No symbol at (360, 425)

100%