

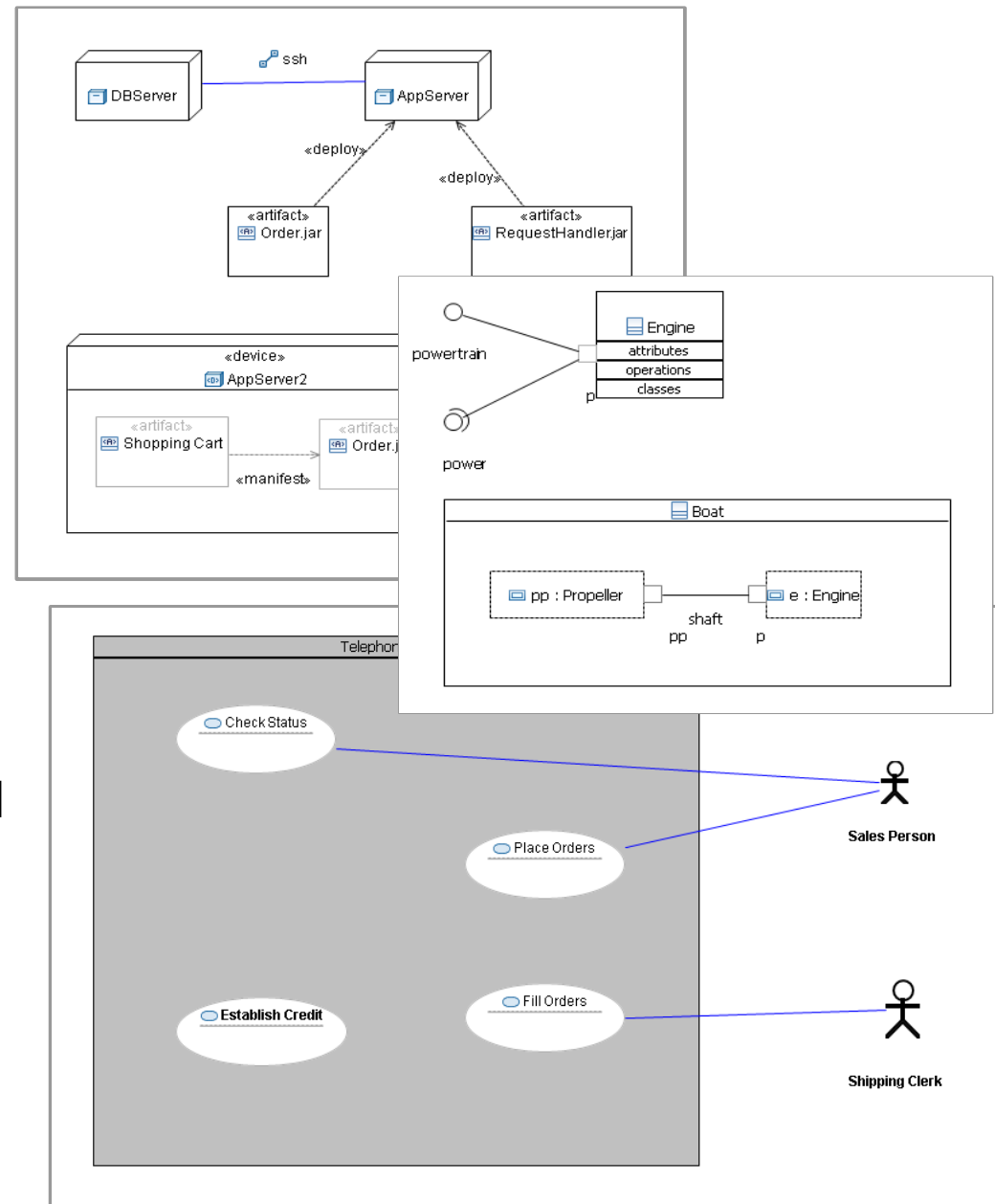
# Bitter GMF or How We did UML with GMF

Short Talk

Tatiana Fesenko  
Borland Software Corporation  
Eclipse MDT Committer

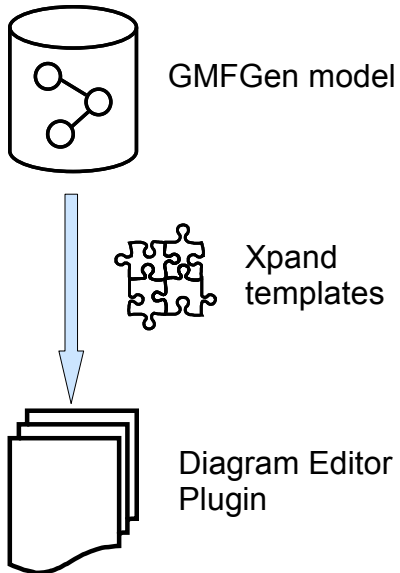
## GMF-based Editors

- The Eclipse Graphical Modeling Framework (GMF) provides a generative component and runtime infrastructure for developing graphical editors based on EMF and GEF.
- UML2Tools from Model Development Tools Project (MDT) is a set of GMF-based editors for viewing and editing UML models.
- UML2Tools is an ultimate test for GMF



## Overview

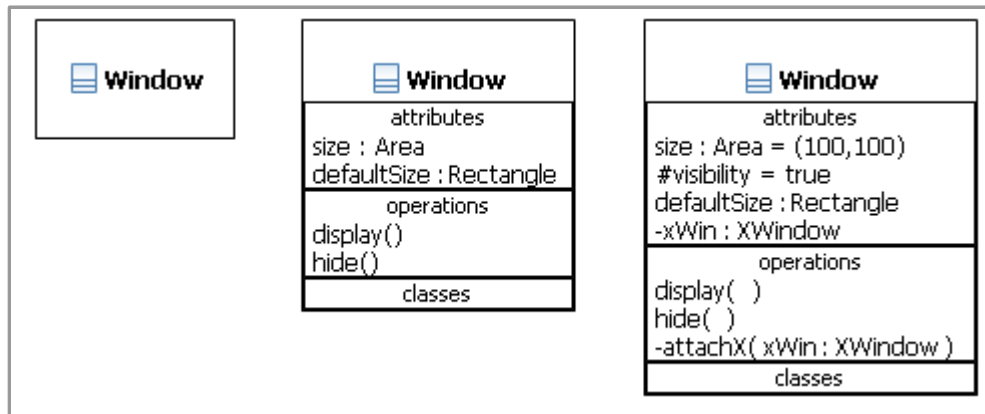
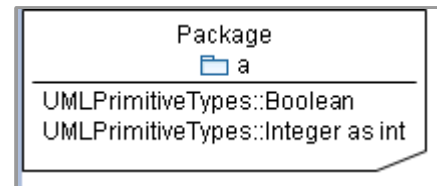
- GMF is intended to generate a core of a diagram editor
- Very specific features should be implemented by augmenting GMF:



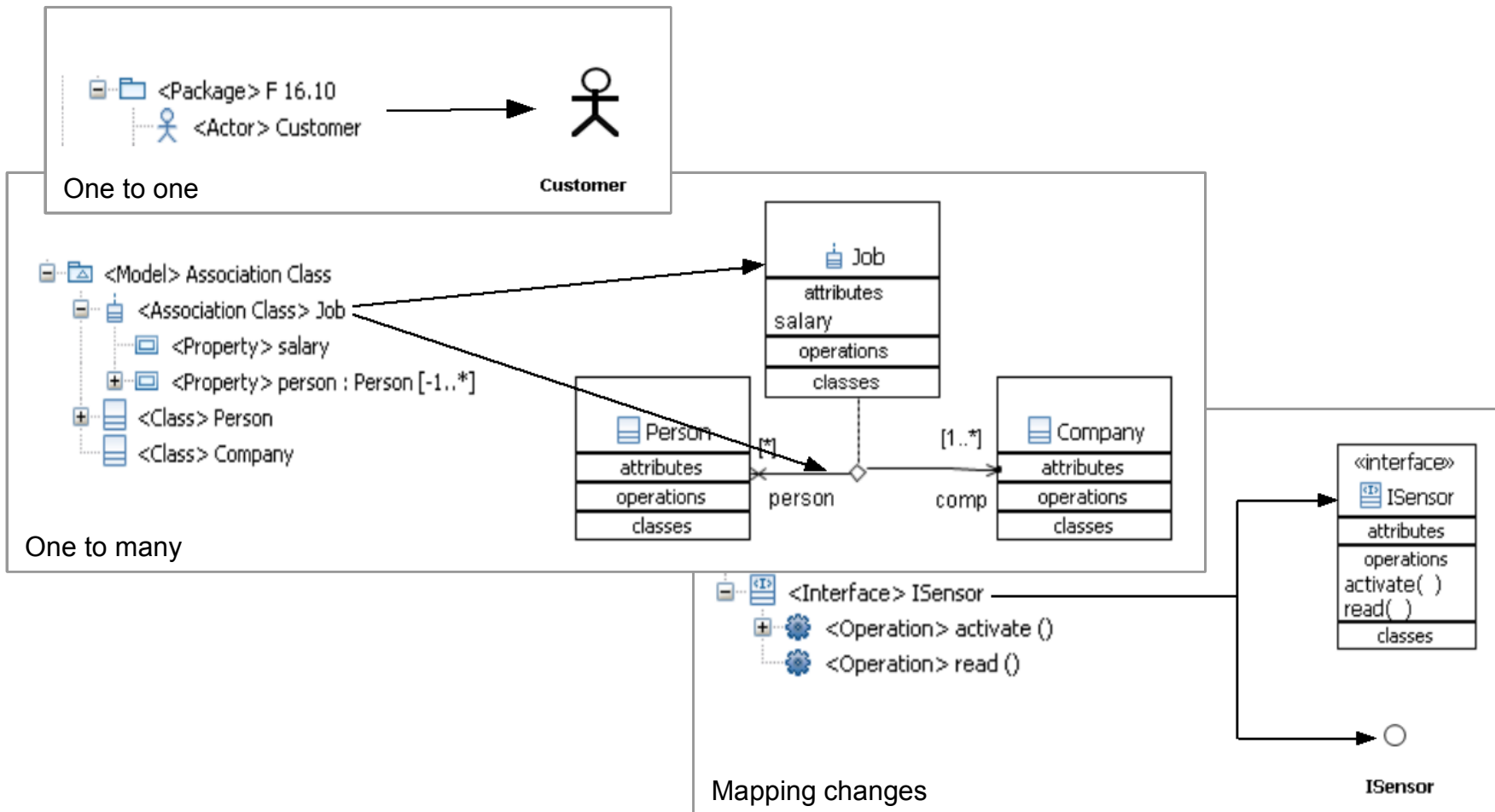
- ◆ GMFGen metamodel extension
- ◆ Dynamic templates
- ◆ Code modification

## GMFGen model extension in UML2Tools

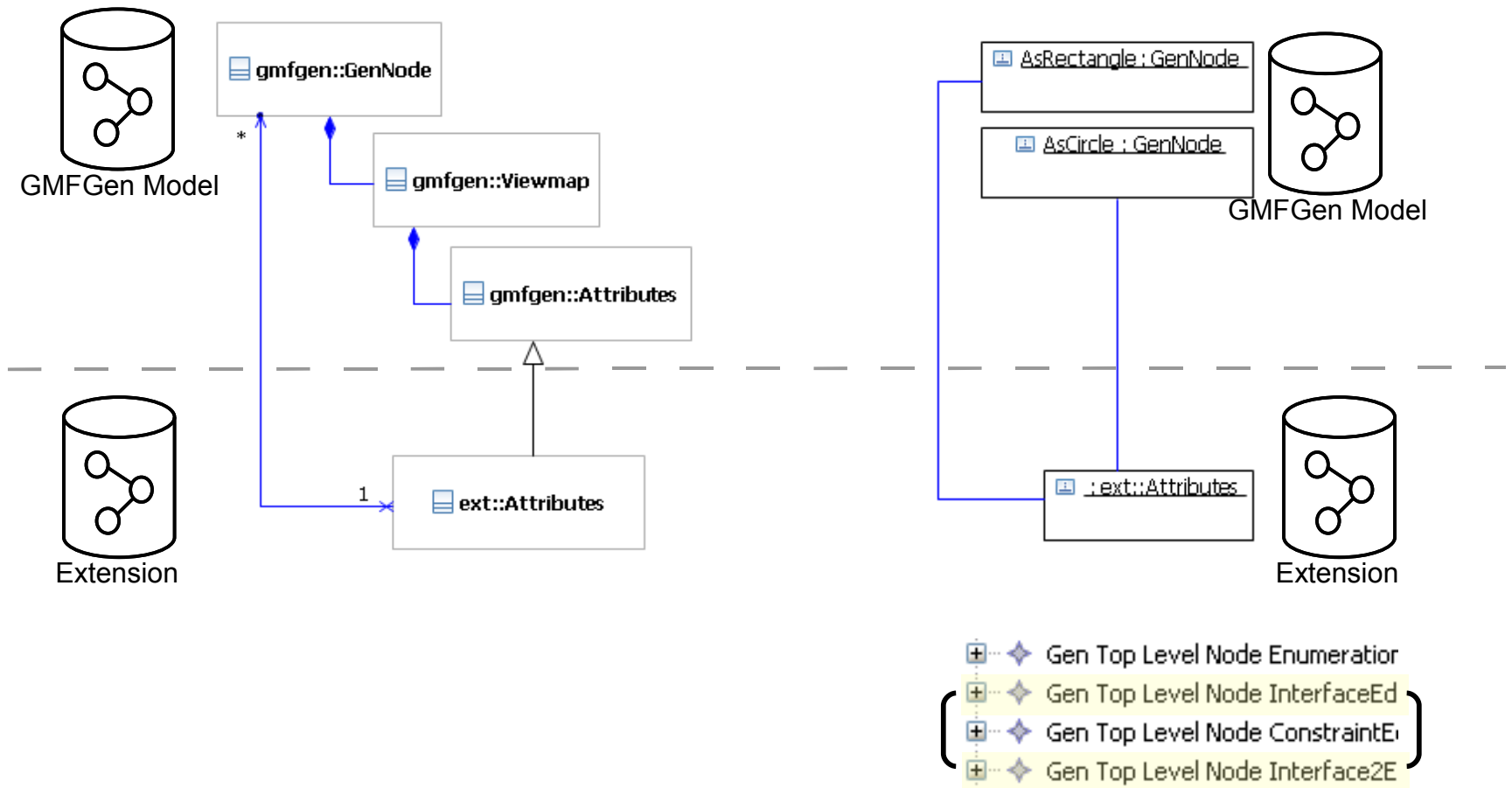
- Sophisticated mapping from domain to diagram
- Diagram on diagram
- Levels of details



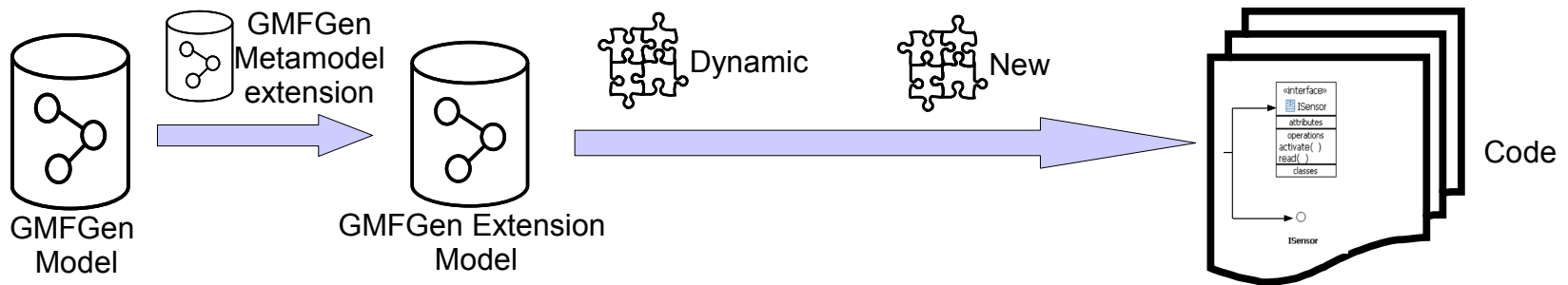
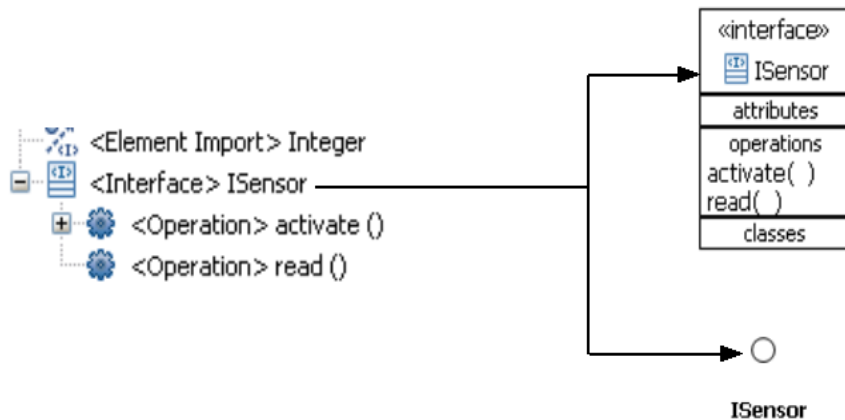
# Mapping from Domain to Diagram



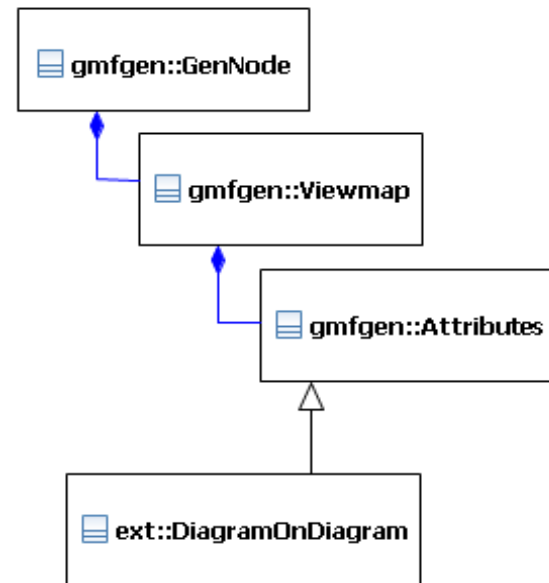
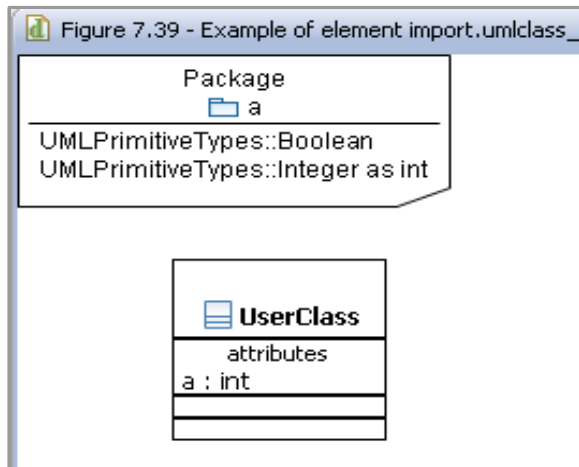
# GMFGen Metamodel Extension



# Switching notations of the element



# Diagram On Diagram



- ⊕ ◆ Gen Top Level Node AssociationClassRI
- ✓ ◆ Gen Top Level Node PackageAsFrameE
- ⊕ ◆ Gen Top Level Node InstanceSpecificat



# Summary

