

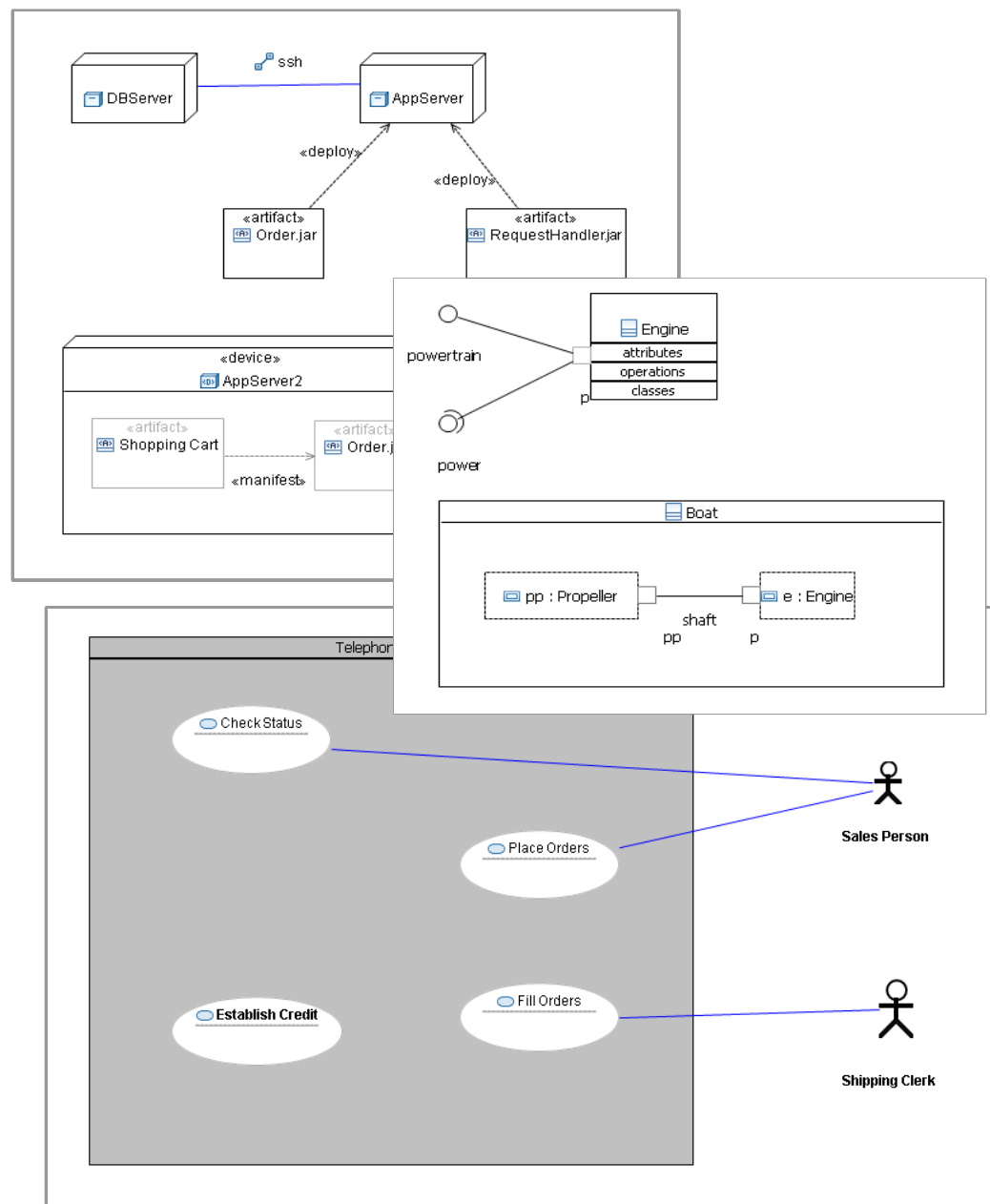
Bitter GMF or How We did UML with GMF

Short Talk

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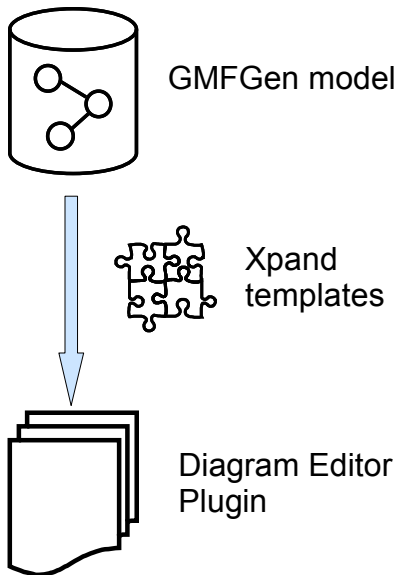
GMF-based Editors

- 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

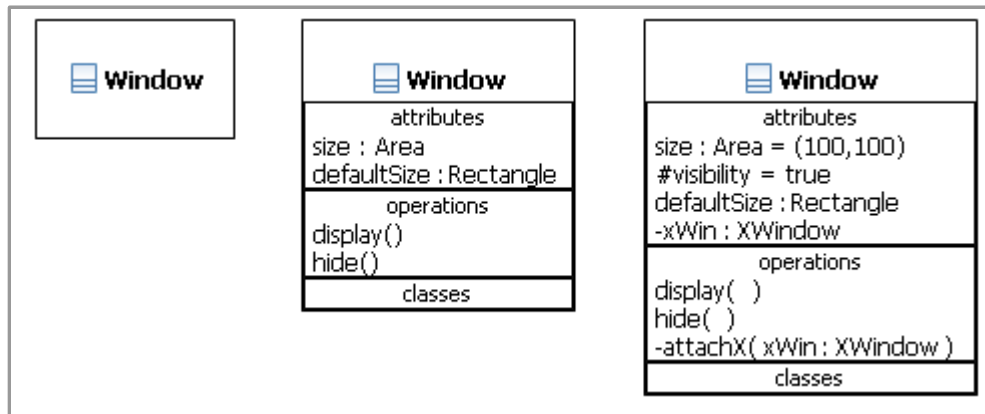
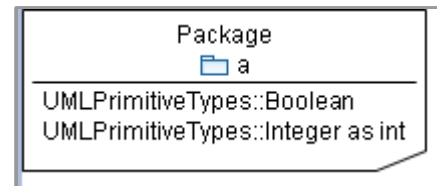
- GMF is intended to generate a core of a diagram editor
- Very specific features should be implemented by augmenting GMF:



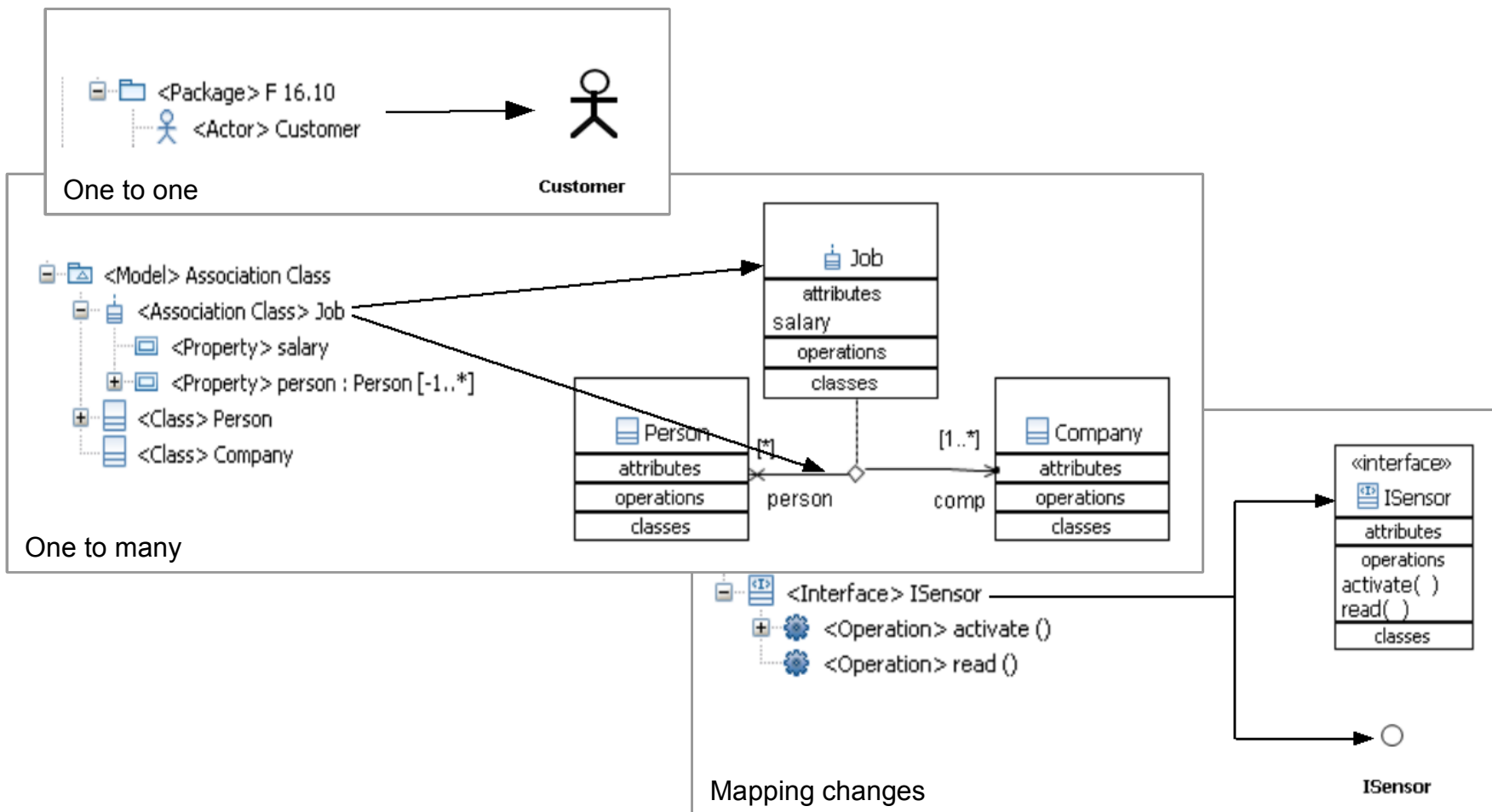
- ◆ GMFGen metamodel extension
- ◆ Dynamic templates
- ◆ Code modification

GMFGen model extension in UML2Tools

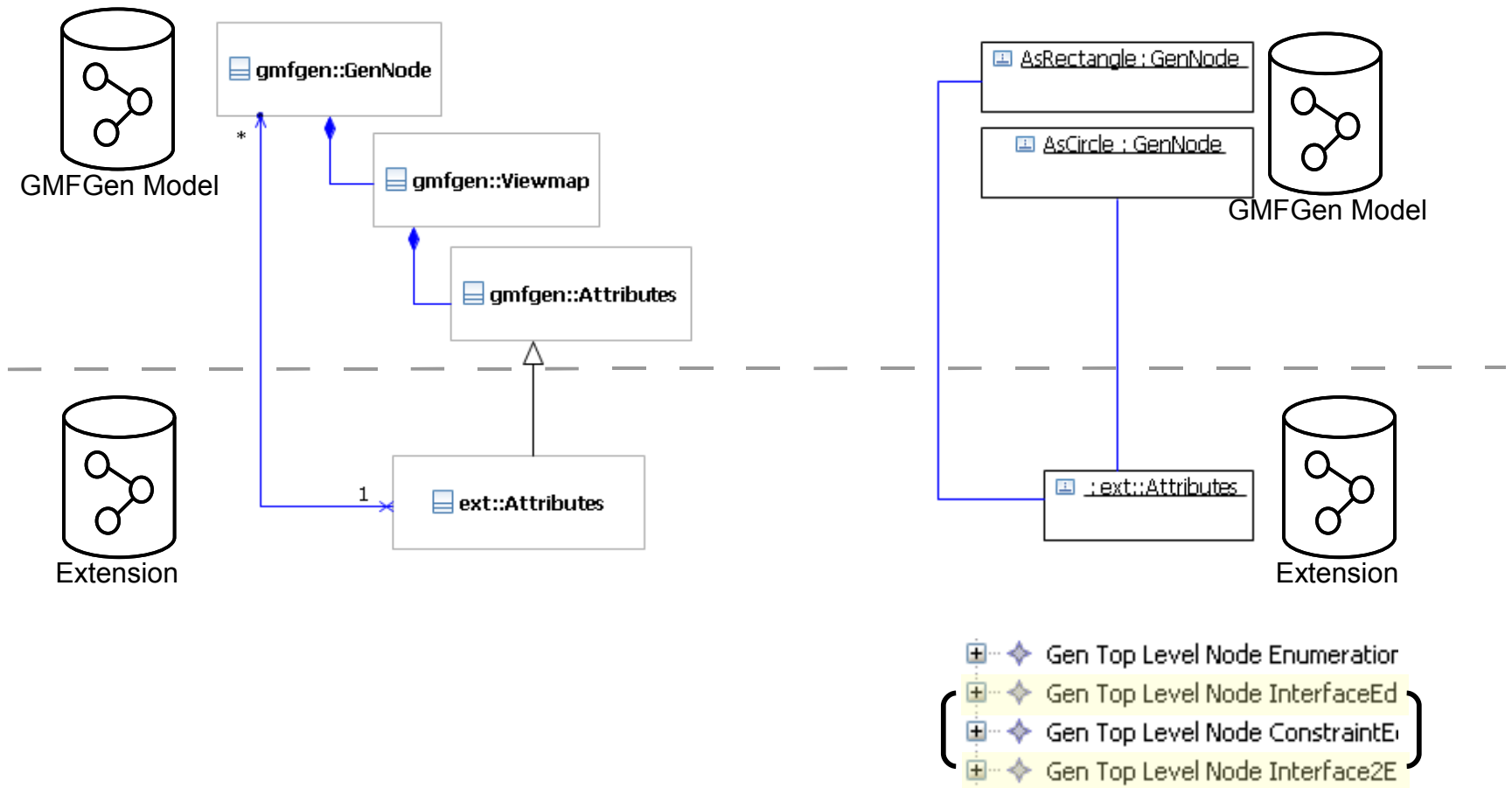
- Sophisticated mapping from domain to diagram
- Diagram on diagram
- Levels of details



Mapping from Domain to Diagram



GMFGen Metamodel Extension



Switching notations of the element

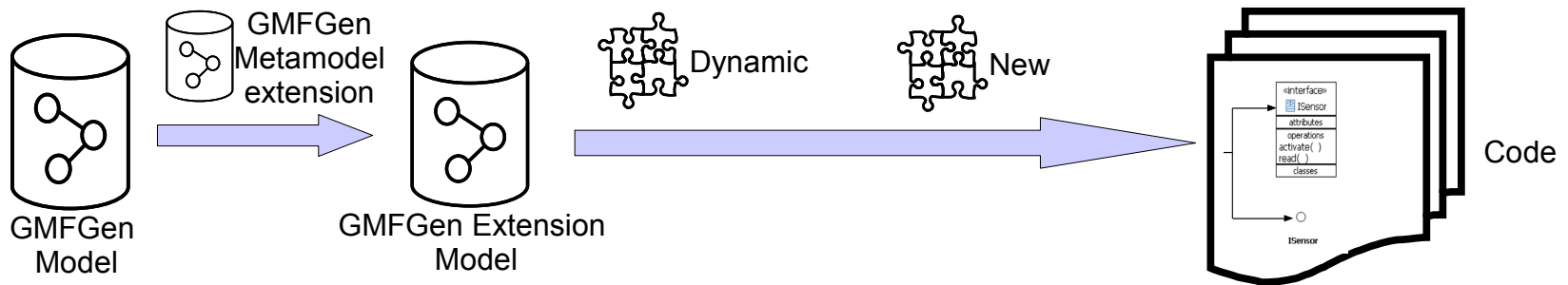
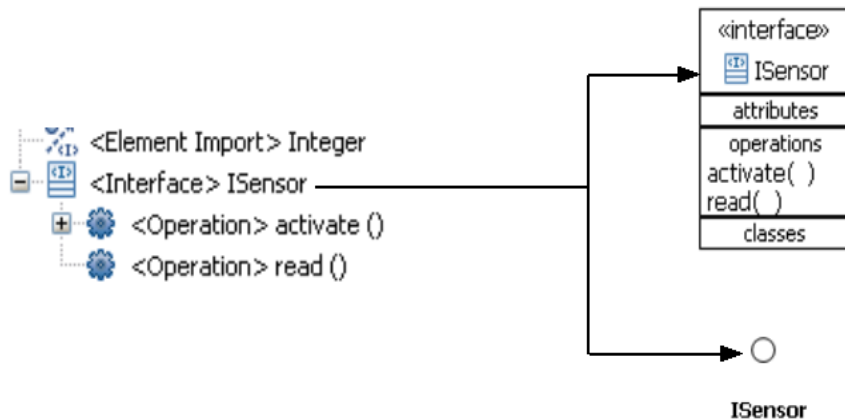
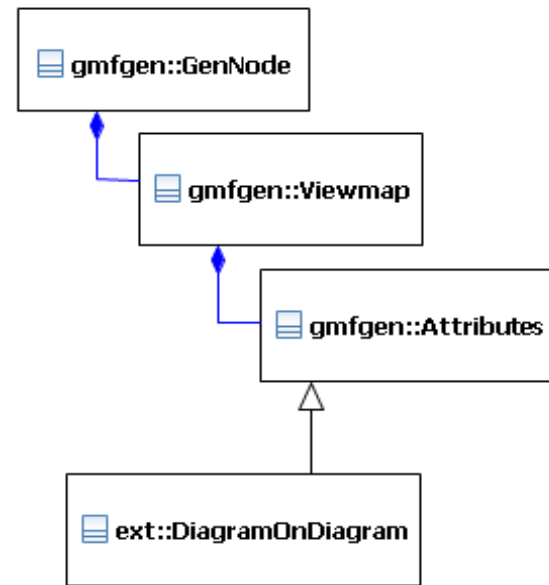
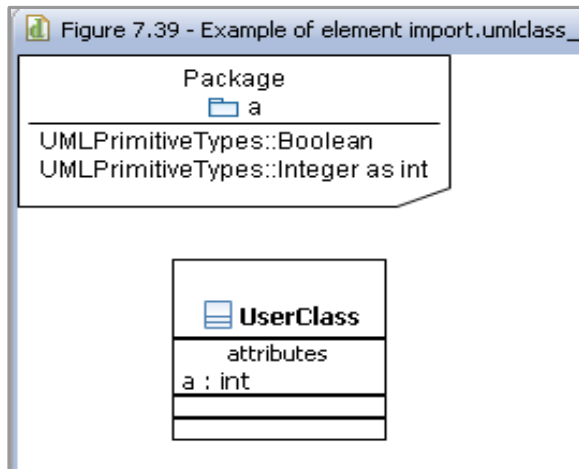


Diagram On Diagram



- Gen Top Level Node AssociationClassRI
- Gen Top Level Node PackageAsFrameE
- Gen Top Level Node InstanceSpecificat

Summary

