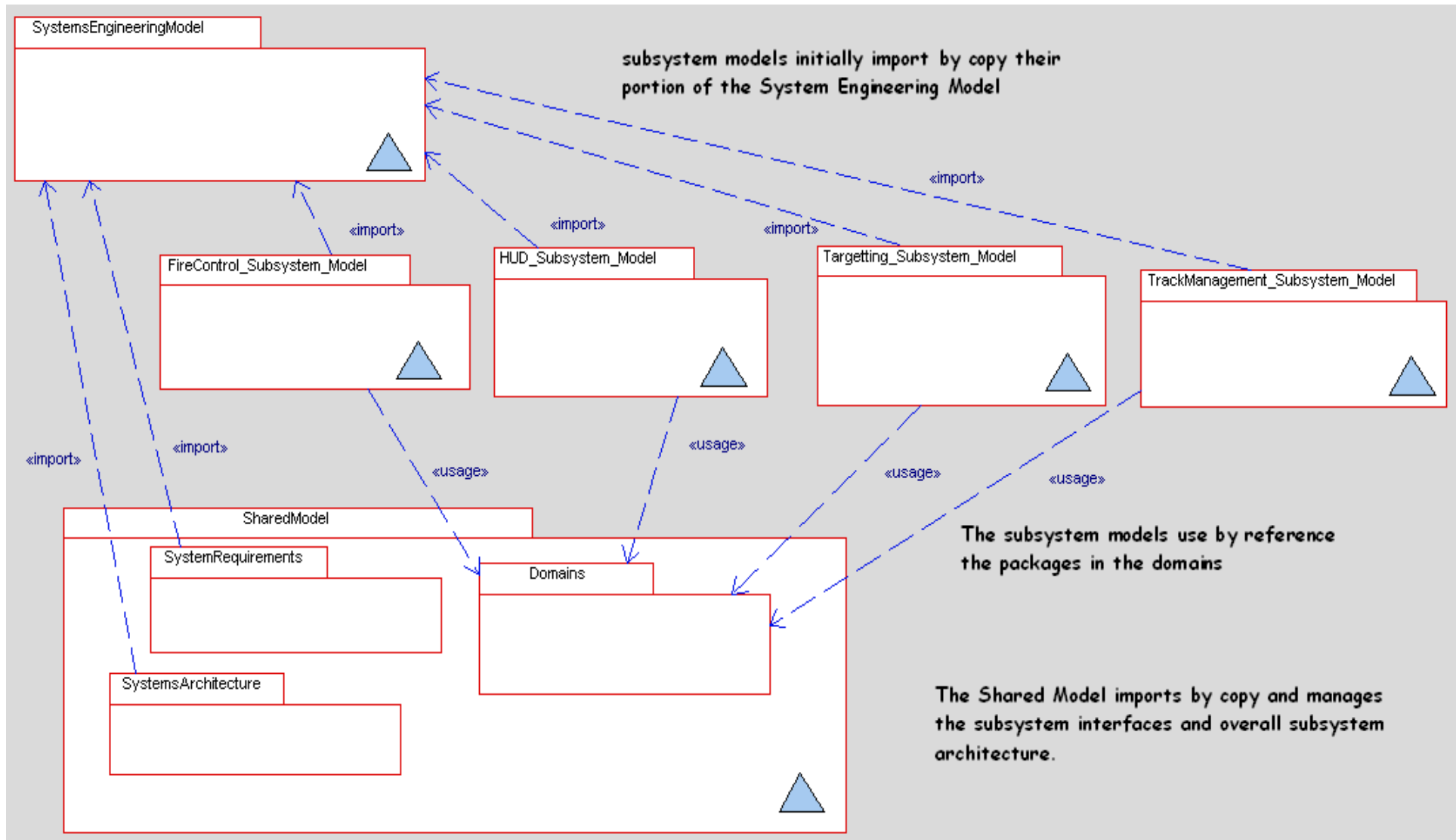


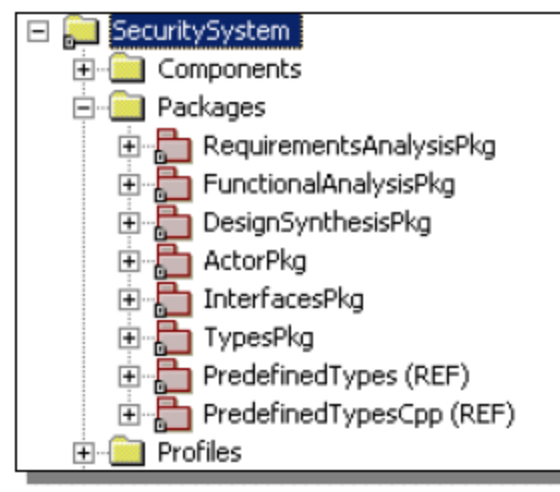


Set of Models



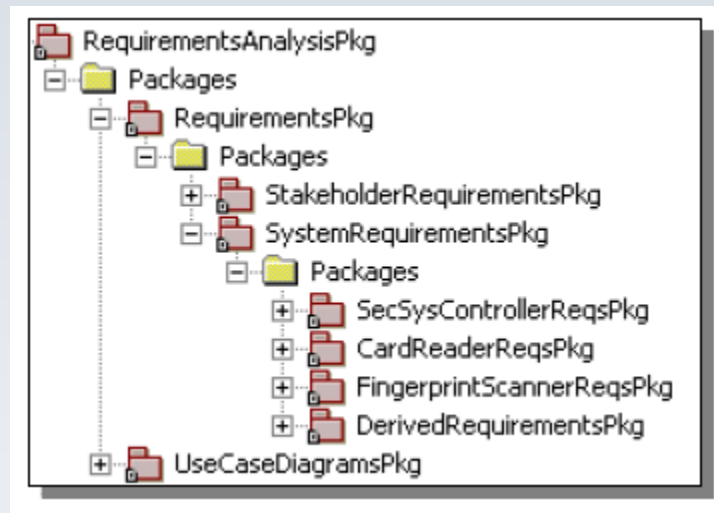
System Level Model Organization

- Recommended Model organization has packages for
 - ▶ Requirements
 - Subpackage per use case
 - ▶ Functional (Black box) analysis
 - Package per subsystem
 - This package is the primary hand off to downstream engineering
 - ▶ Architectural Design



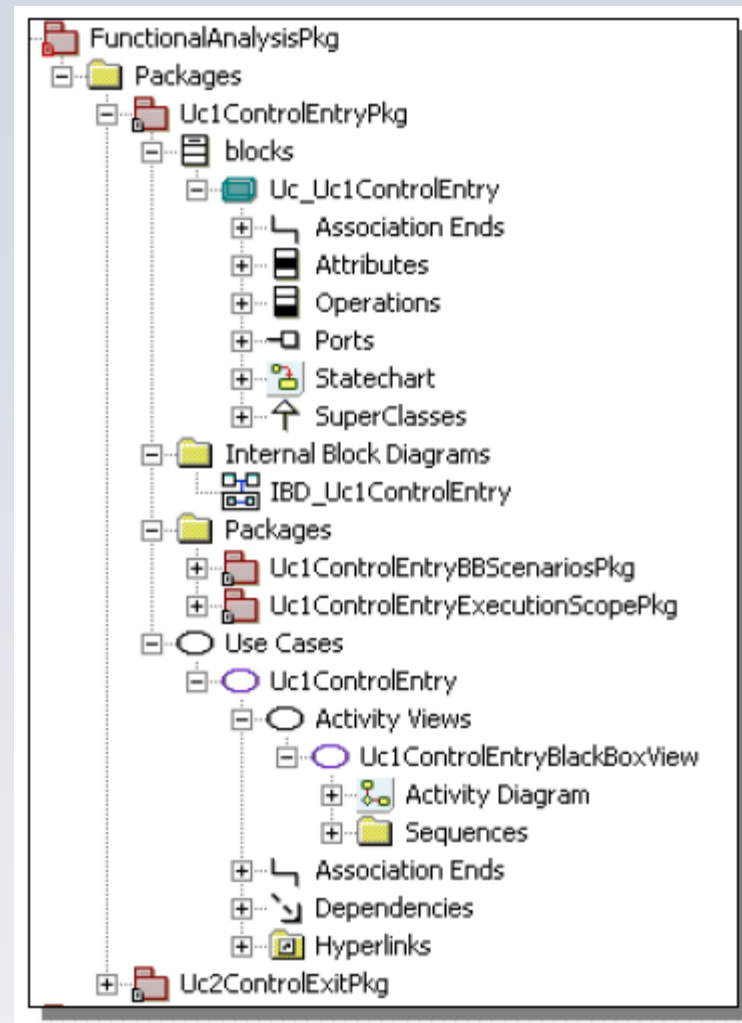
Requirements Analysis Package

- Generally organized around the use cases to which the requirements are allocated
- These requirements may be imported from DOORS or other requirements management tools
- This package has the use cases and use case diagrams but not the more detailed views (e.g. sequence, activity, and state diagrams)



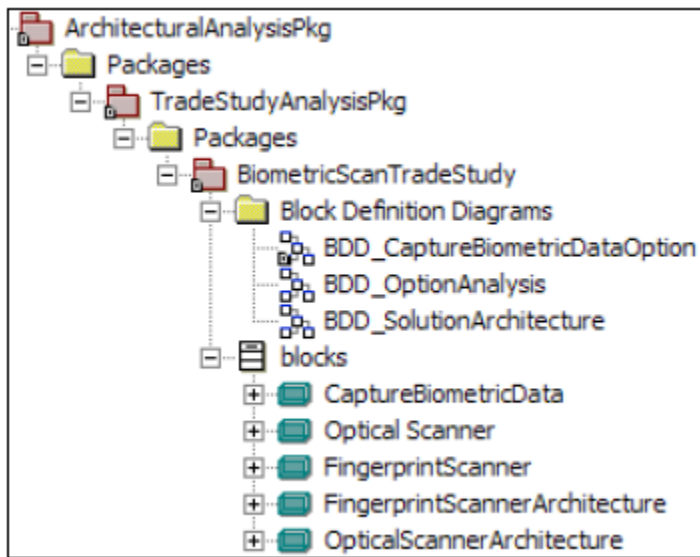
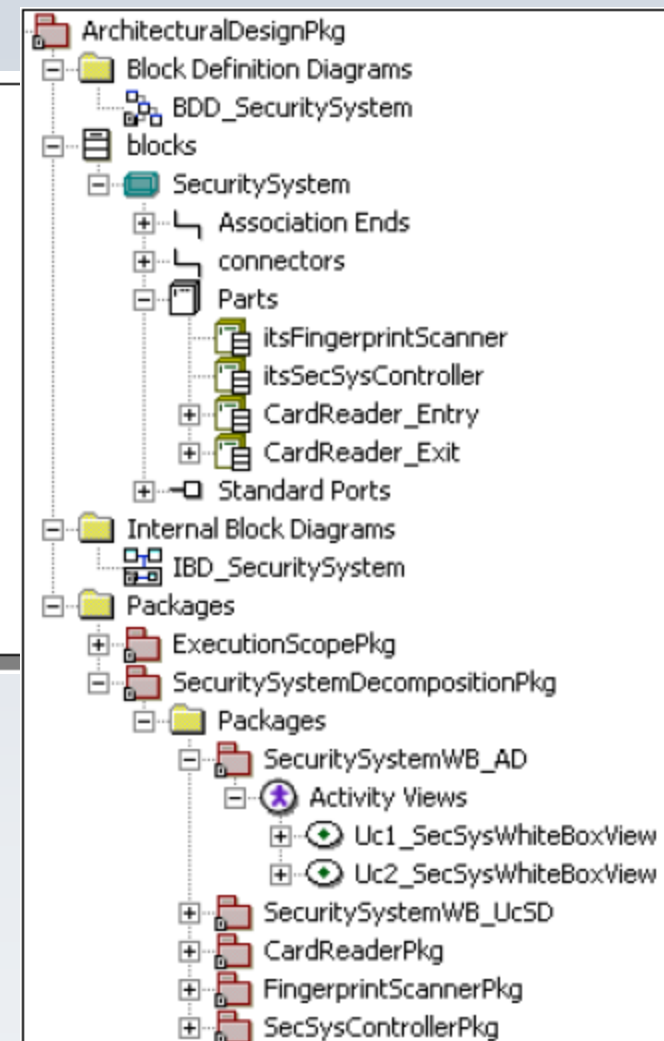
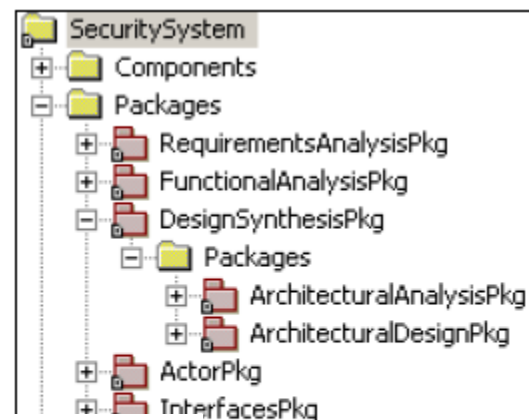
Functional Analysis Package

- This package holds the black box use case analysis.
- It is organized on a per use case basis



Design Synthesis Package

- Subdivided into
 - Architectural analysis package (for trade studies)
 - Architectural design package (for subsystem specification)

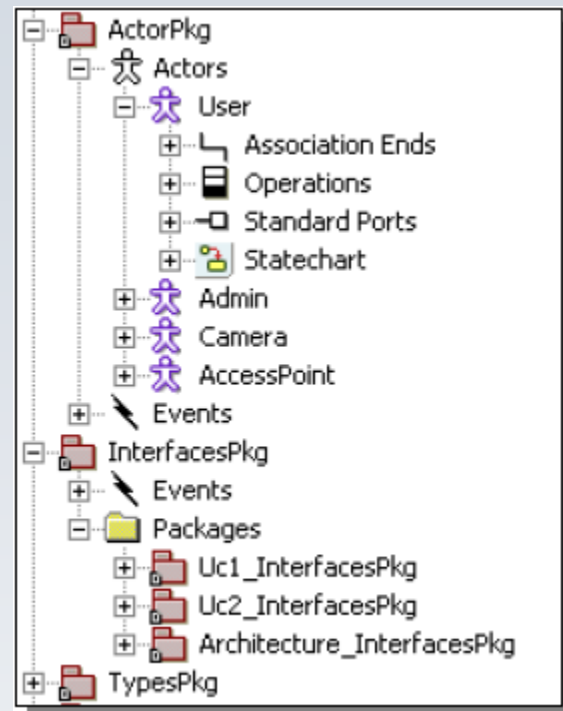


esPkg
definedTypes (REF)
definedTypesCpp (REF)



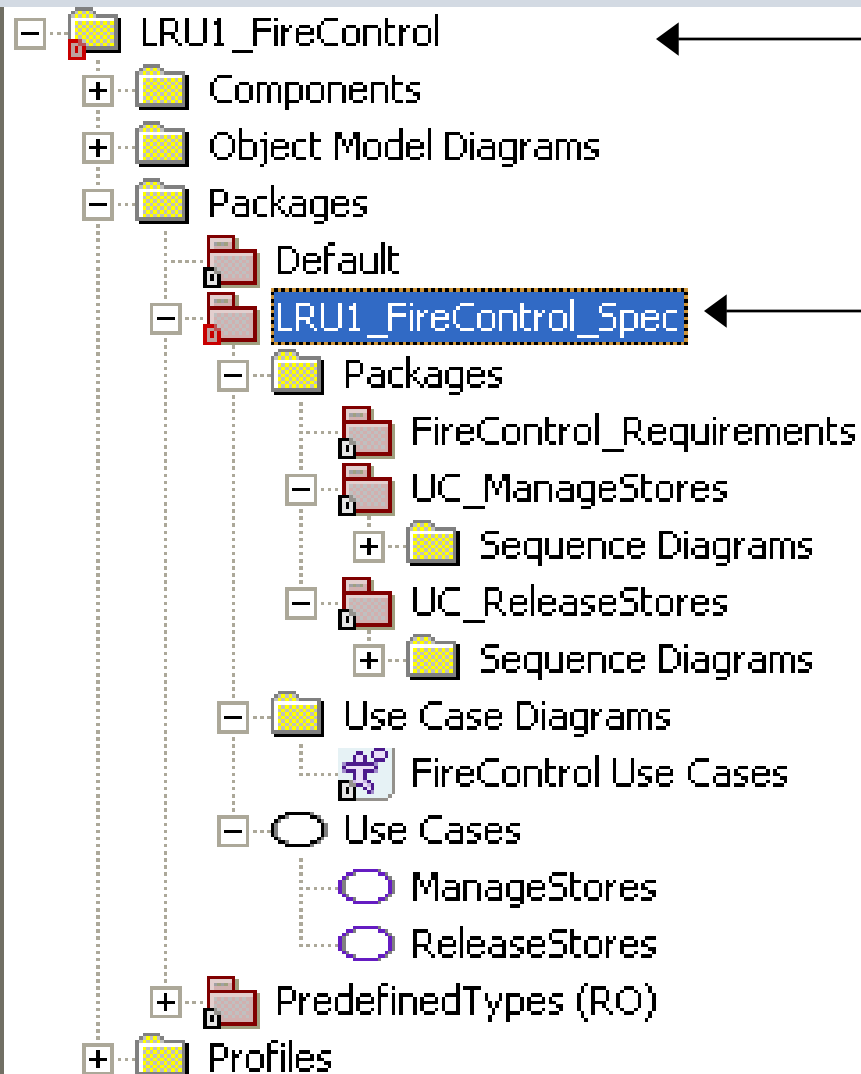
System Level Definitions

- Top level packages for
 - Actors
 - Interfaces
 - Data types





Subsystem Models



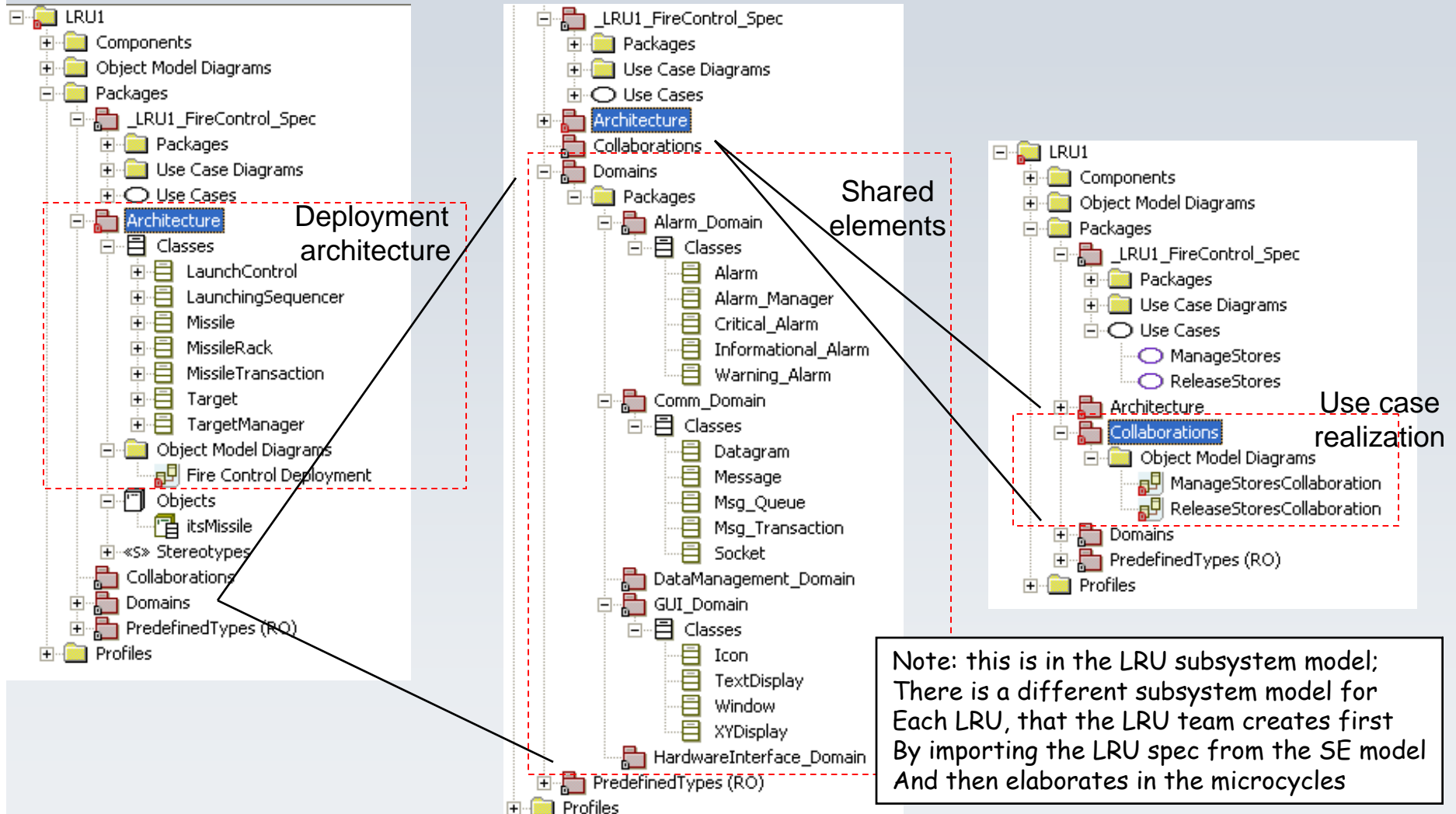
This is the model for this particular subsystem. This Starts with a new model being created with Add to Model To add just the specification for this subsystem

The specification imported from the SE model

The IPT then takes this model and identifies the hw/sw tradeoffs and formulates a deployment architecture for this LRU



Elaborated Subsystem Model Org





Shared Model

Shared Model

SubsystemInterfaces

Subsystem interfaces are used by the SE model to store the interfaces used between subsystems. They are meant to be used by the SE model to store the information and used by the SE model to support execution. The subsystem models use these interfaces to specify what contracts they offer and require.

PhysicalArchitecture

Shows the overall subsystem architecture and contains the subsystems, their ports, and references to their interfaces.

Domains

Alarm_Domain

Comm_Domain

DataManagement_I

GUI_Domain

HardwareInterface_I

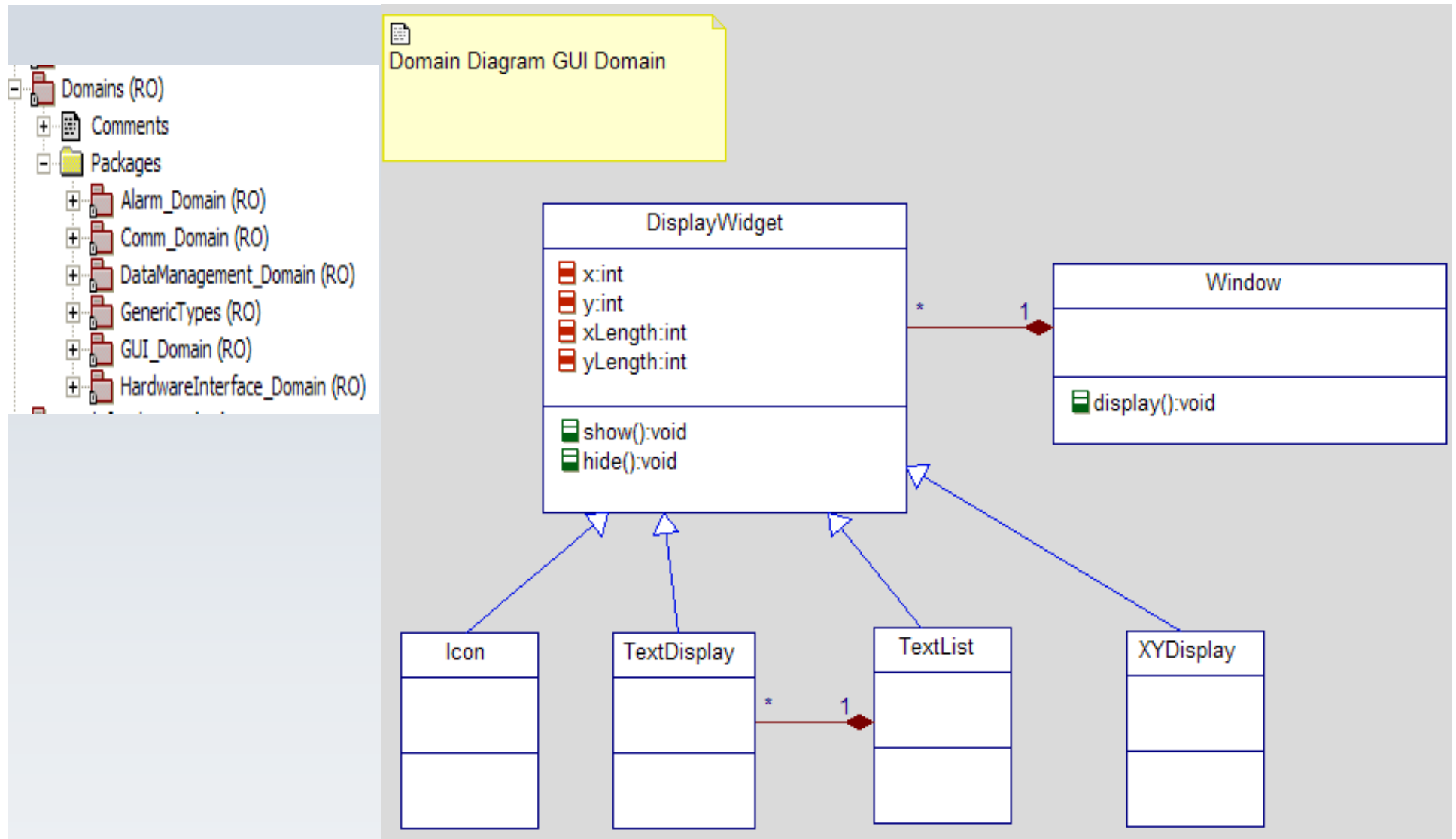
«Usage»

The Domains package stores classes shared, or potentially shared, by the subsystem teams in their internal collaborations. Primarily it is anticipated that they are "owned" (r/w rights) by a "domain owner" - a person in charge of maintaining the semantic integrity of the classes within the domain. They are used BY REFERENCE by the subsystem teams. Using them by reference ensures that as the domain is elaborated, the contents are published to the subsystem teams.



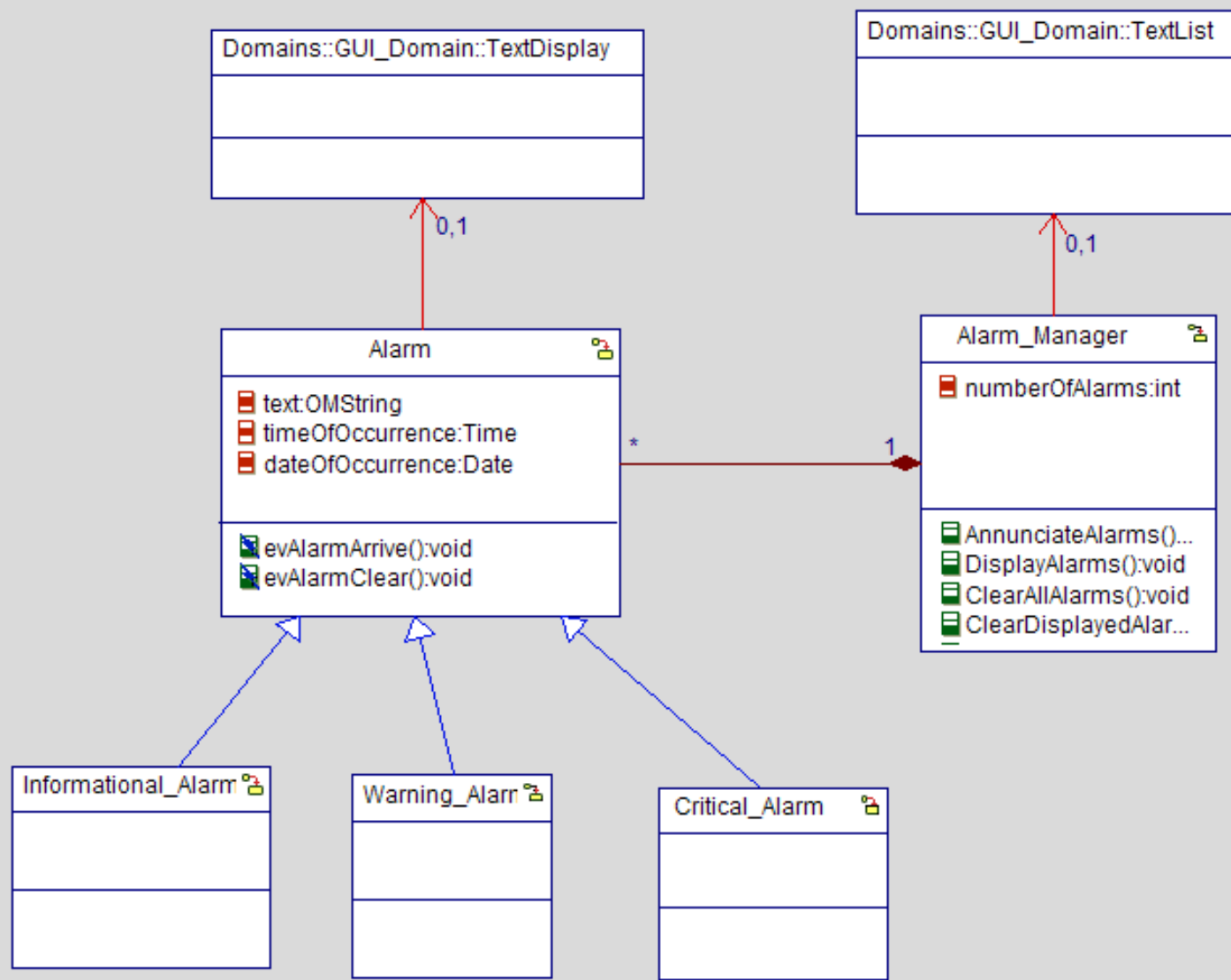


Domains



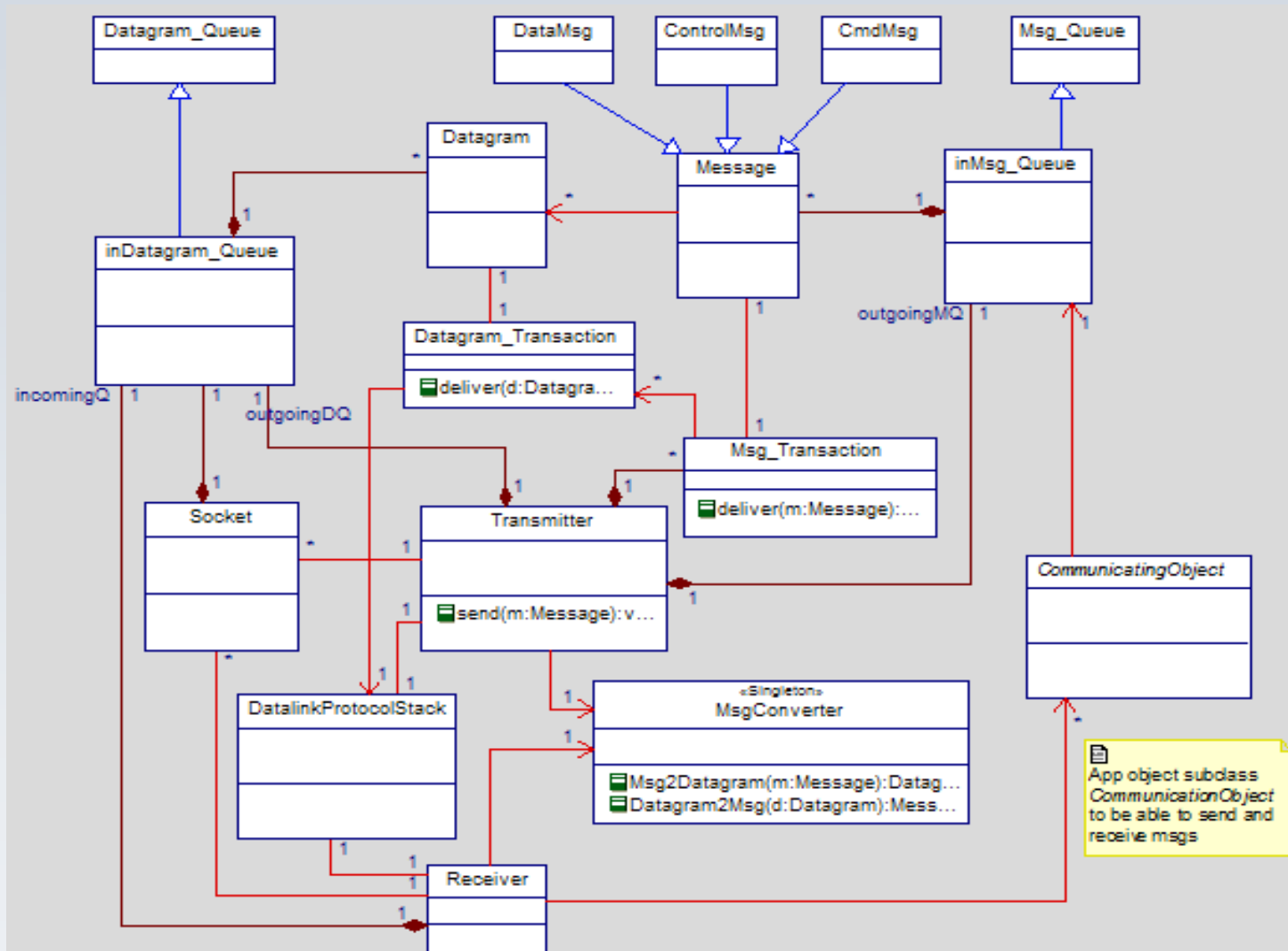


Domains



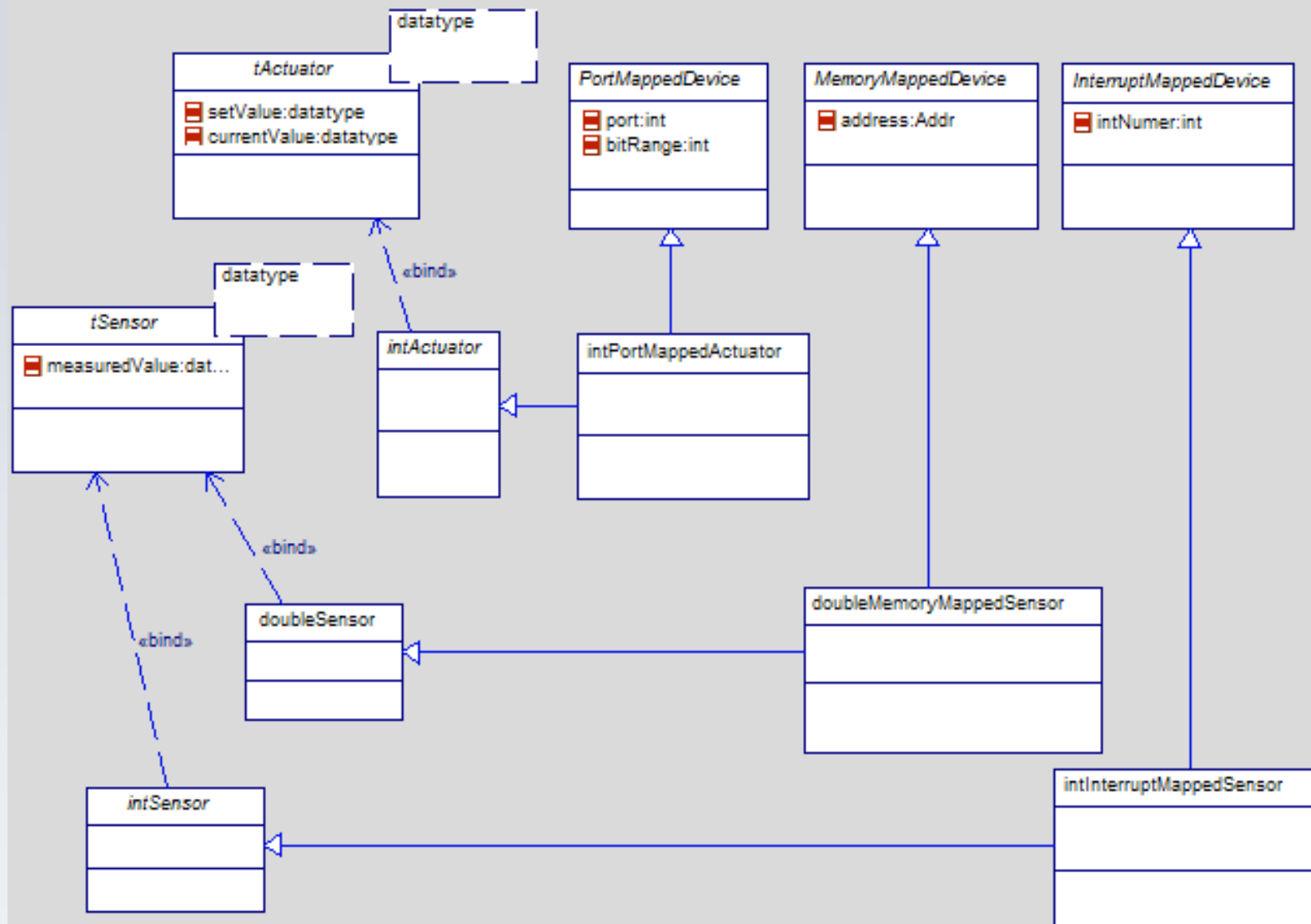


Domains





Domains





Using Domains

