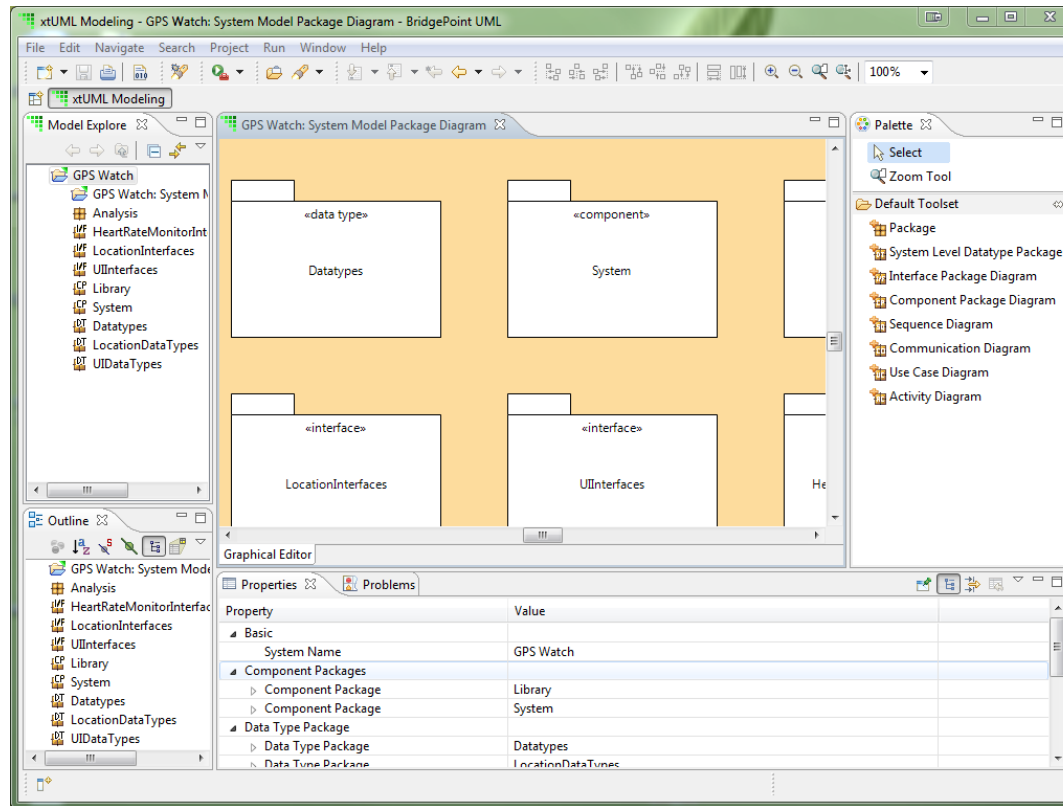# Model Structure

♦ **Structure of the model is realized in packages**

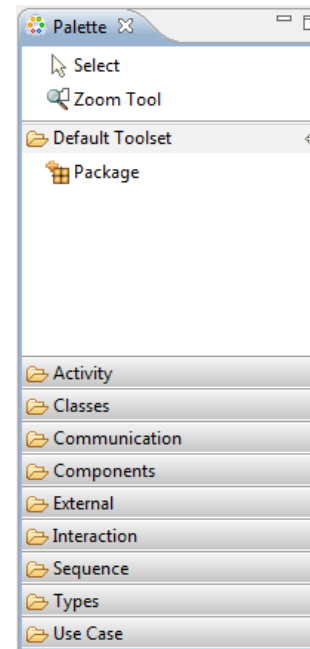♦ **Packages can contain model elements or other packages**

Generic Packages

♦ **Generic packages can contain any other model element.**

♦ **Useful for high-level partitioning along functional divisions**

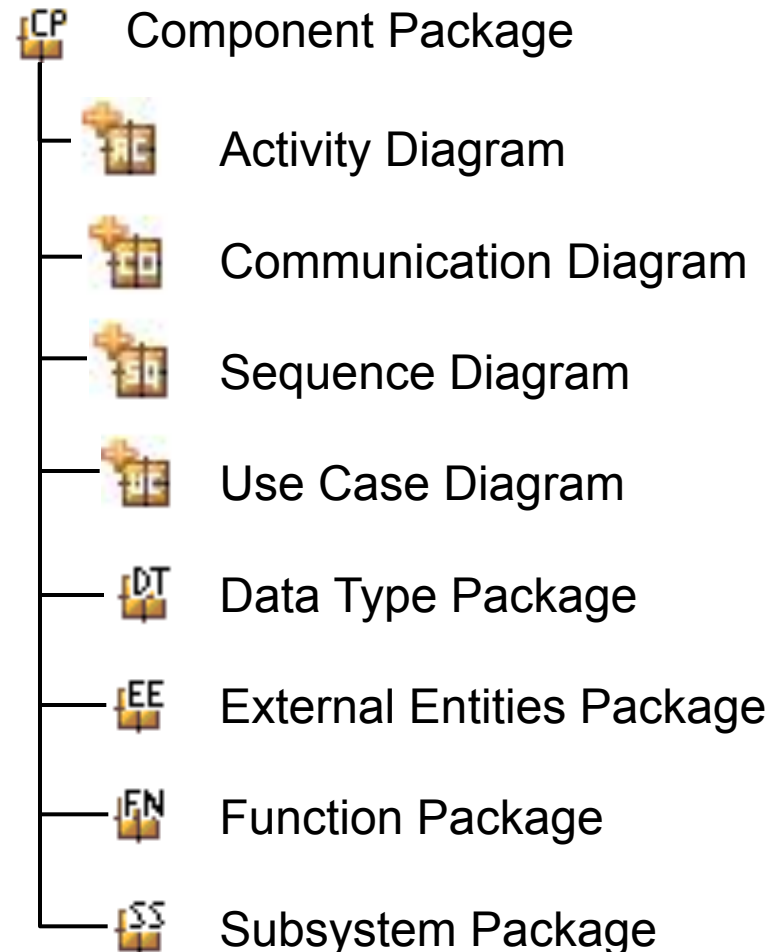♦ **Model elements are available from the palette classified by type.**

Generic Package

Specialized Packages (soon to be discontinued)

- **Add diagrams and packages to top level of model; Components and models**
- **Package icons look similar, have different letter abbreviations**
- **Diagrams are intended for domain analysis only**
- **Packages contain executable model elements**

CP Component Package

AC Activity Diagram

CO Communication Diagram

SD Sequence Diagram

UC Use Case Diagram

DT Data Type Package

EE External Entities Package

FN Function Package

SS Subsystem Package

Components

♦ **Packages containing components can be subdivided with additional component diagrams if necessary**

♦ **Components are connected together via Provided/Required interfaces at this level**
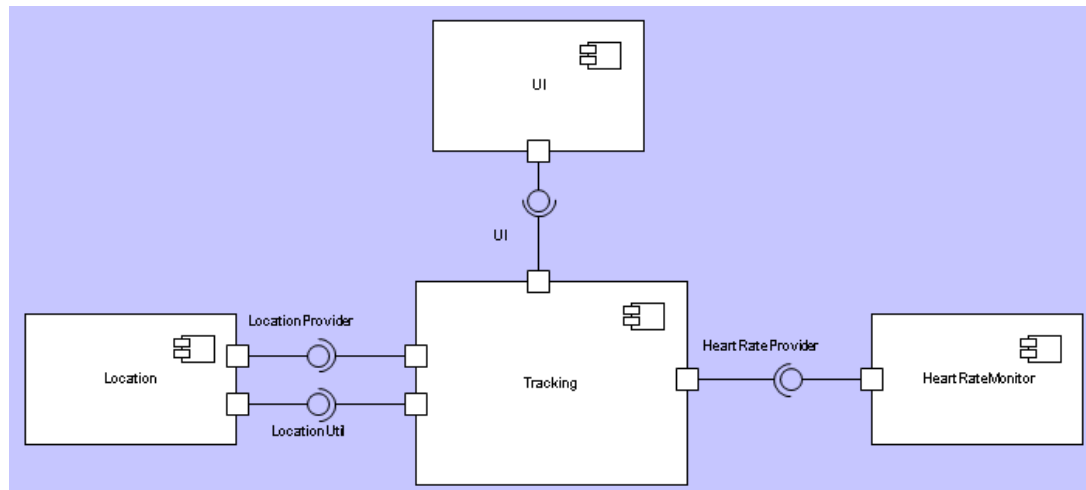
♦ **Interfaces can also be defined in these packages**

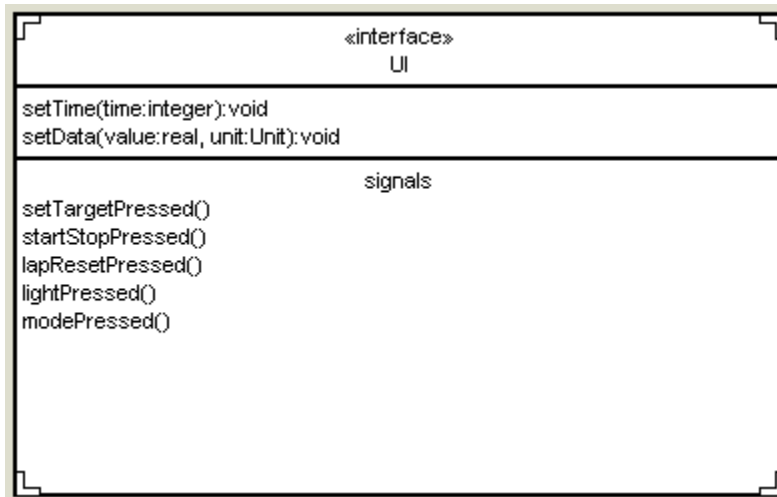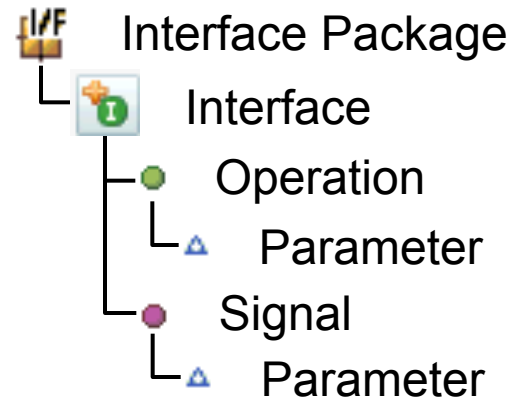Component

Component Reference

Provided Interface

Required Interface

Interfaces

♦ **Interfaces must be decomposed into their Signals and Operations at this level**

♦ **Can contain additional packages of interfaces for clarity and hierarchy**

I/F Interface Package
 └─ Interface
    ├─● Operation
    │ └─△ Parameter
    └─● Signal
       └─△ Parameter

«interface»
UI

setTime(time:integer):void
setData(value:real, unit:Unit):void

signals
setTargetPressed()
startStopPressed()
lapResetPressed()
lightPressed()
modePressed()

Exploring Interfaces

♦ **Use Model Explorer to analyze an Interface shows an outline view of the interface graphic**

Subsystem Level

♦ **Contained within a Component or Domain package**

♦ **Subsystems can be further decomposed into additional subsystem packages if needed**

♦ **Class diagrams drawn and defined within a subsystem package**

Class

Imported Class

Association

Associative Link

Supertype

Subtype
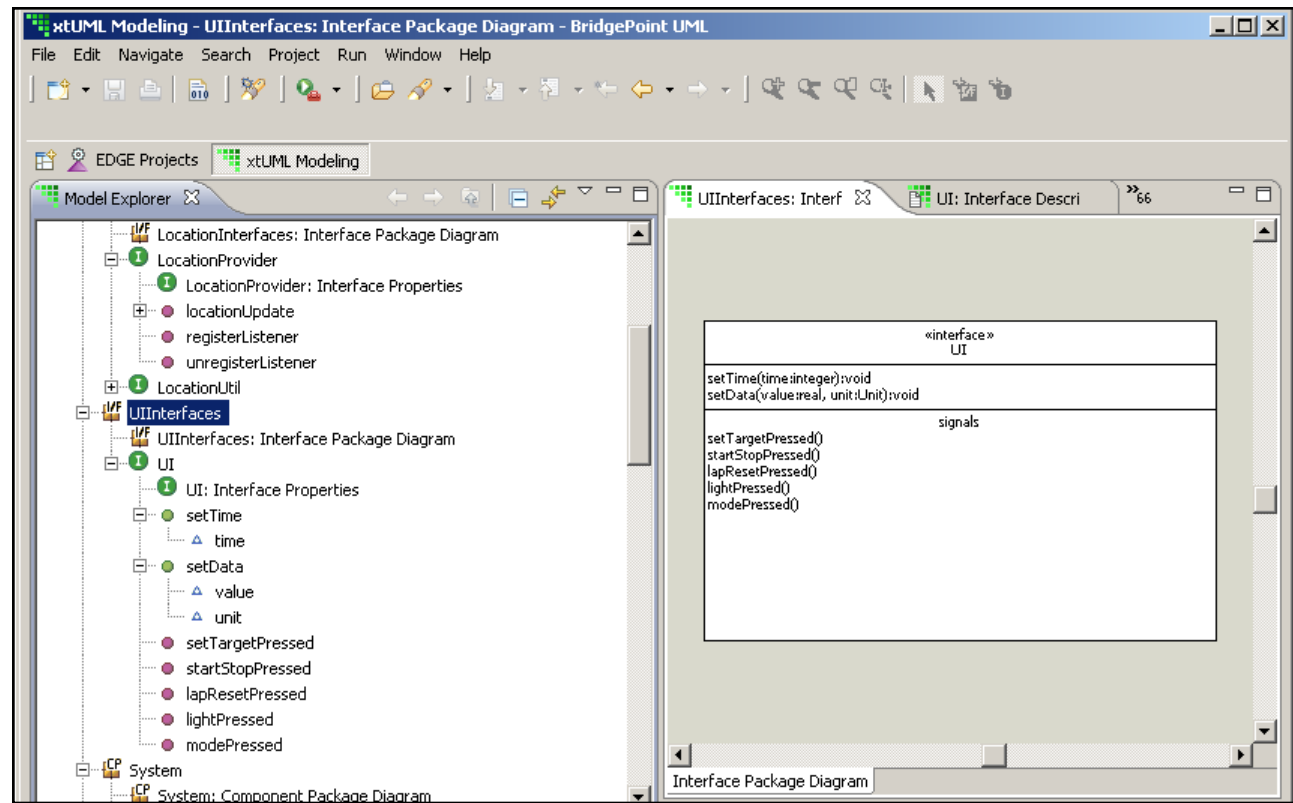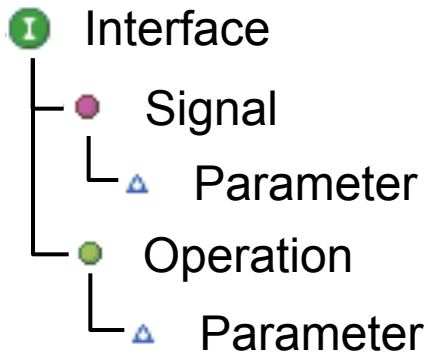
Exploring Classes

♦ **Use Model Explorer to analyze a class to list attributes, operations and their parameters**

Exploring State Machines

♦ **An outline view of the state machine is visible in Model Explorer**