ALM-PLM Interop user group
Workings
Information needs in the scenario

Working sessions primarily 31/8/15, 11/09/15

Thanks to contributors: Torsten Gilz, Pawel Chadzynksi, Rainer Ersch, Gray Bachelor

Our mission is to identify the major artefacts in the scenario

- What are the main artefacts in the scenario?
  - Those explicitly named ?
  - Other "Typical" key artefacts ?

- What are their main properties

- and their typical relationships

- What are the available terminologies ?

Analysis of the scenario http://open-services.net/forums/viewthread/221/

- Artefacts named
  - Change Request
  - Artefact
  - Configuration
  - Impact analysis (the results of)
- Others mentioned for discussion
  - Revision
  - Impacted Item
  - Configured Item
- Assume item, revision and artefact are the same i.e. artefact
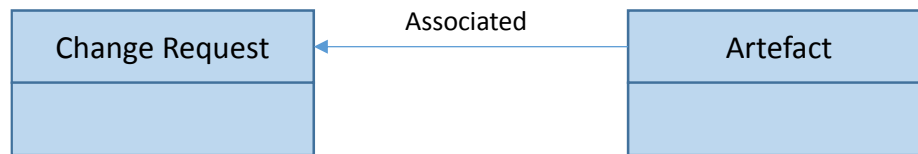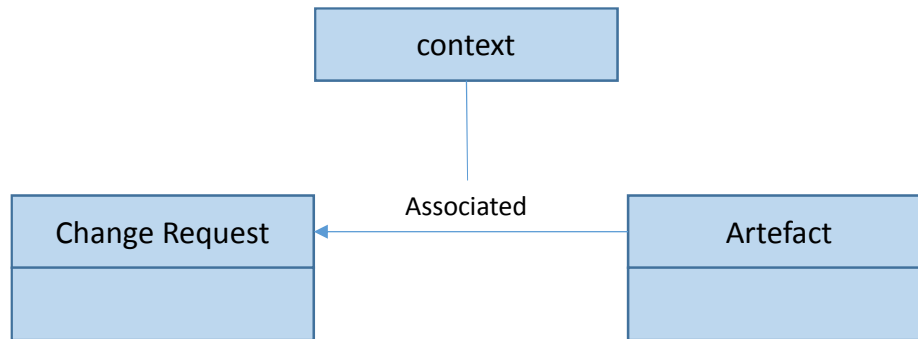
Diagram1: simple case

Change Request

Associated

Artefact

Diagram2: context as a attribute of a link

Note: this is consistent with OSLC Config management spec
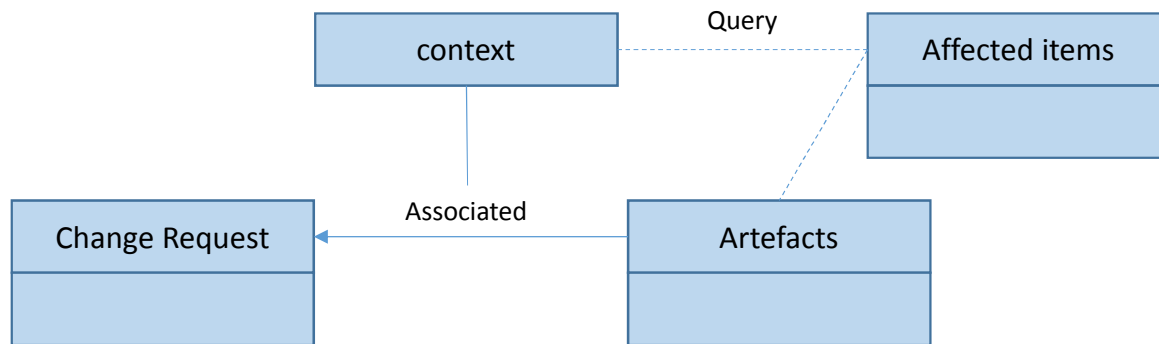
Diagram3: Affected items as an query
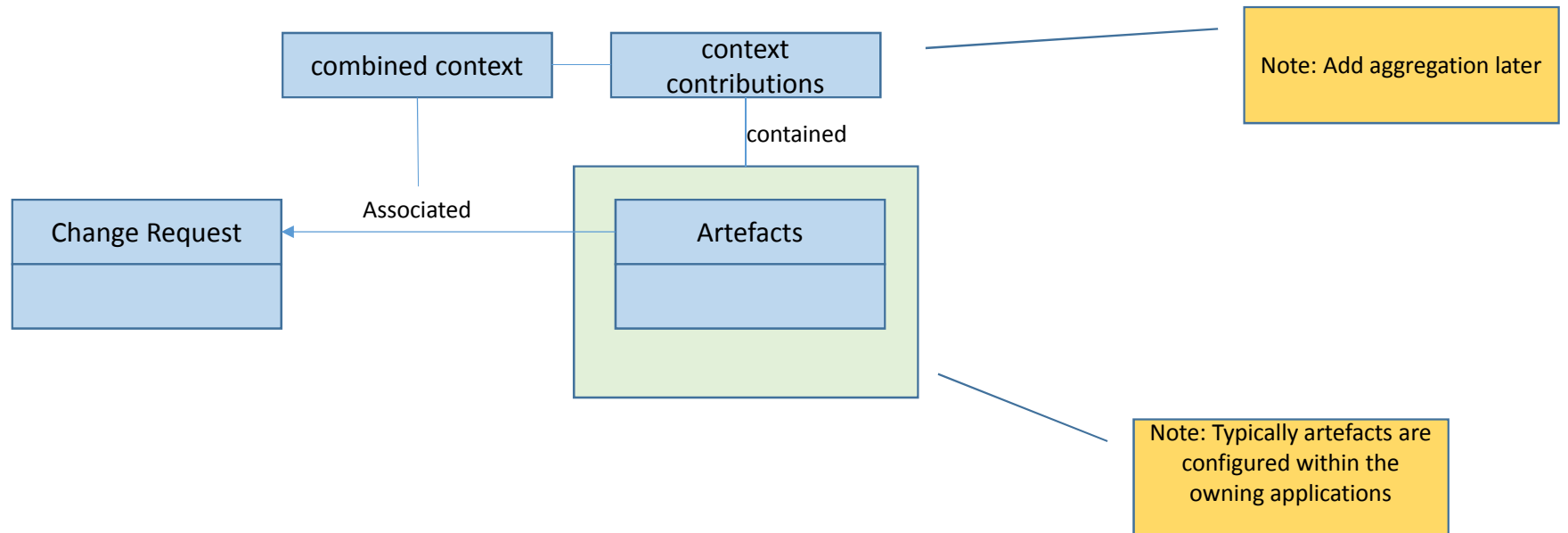
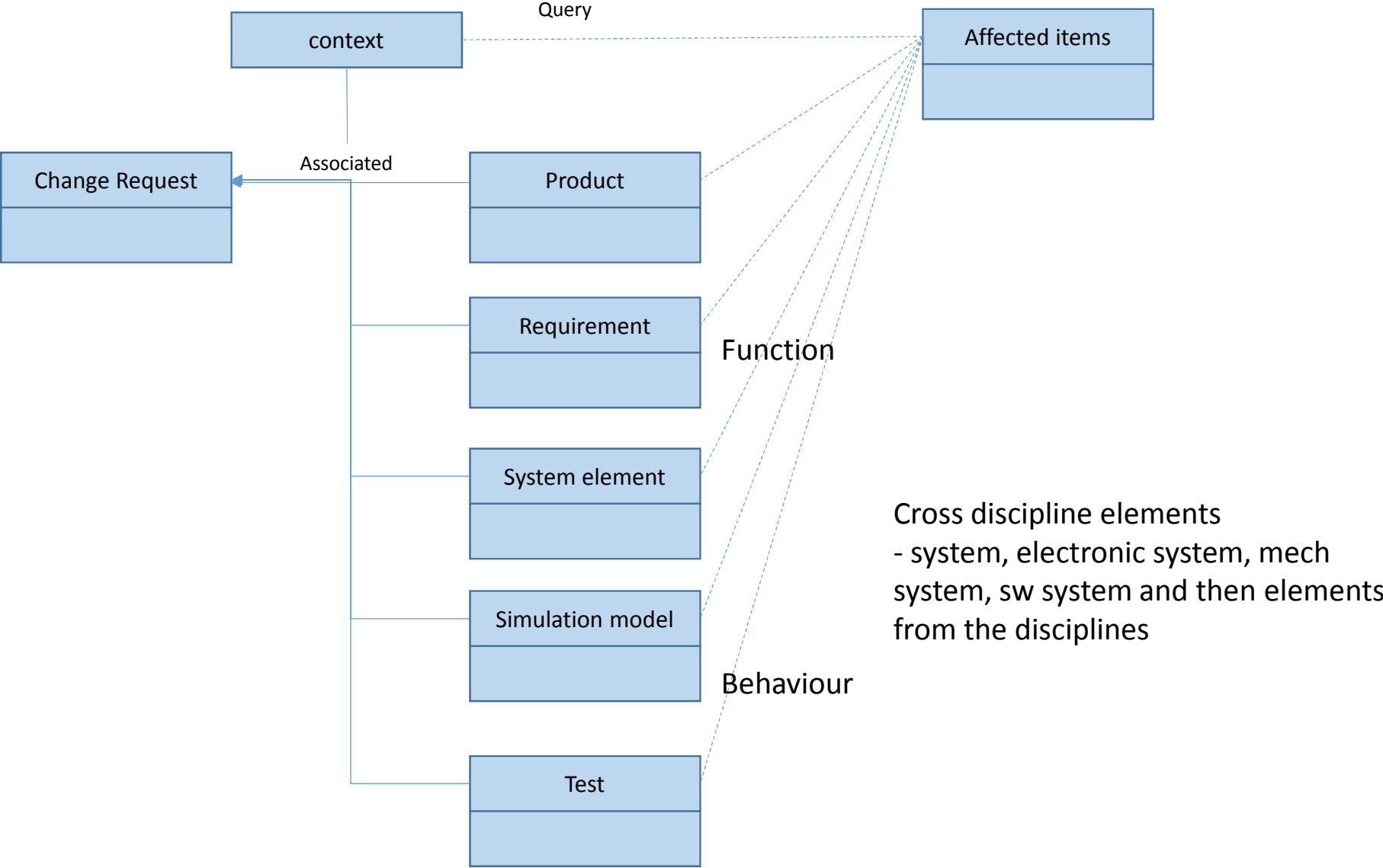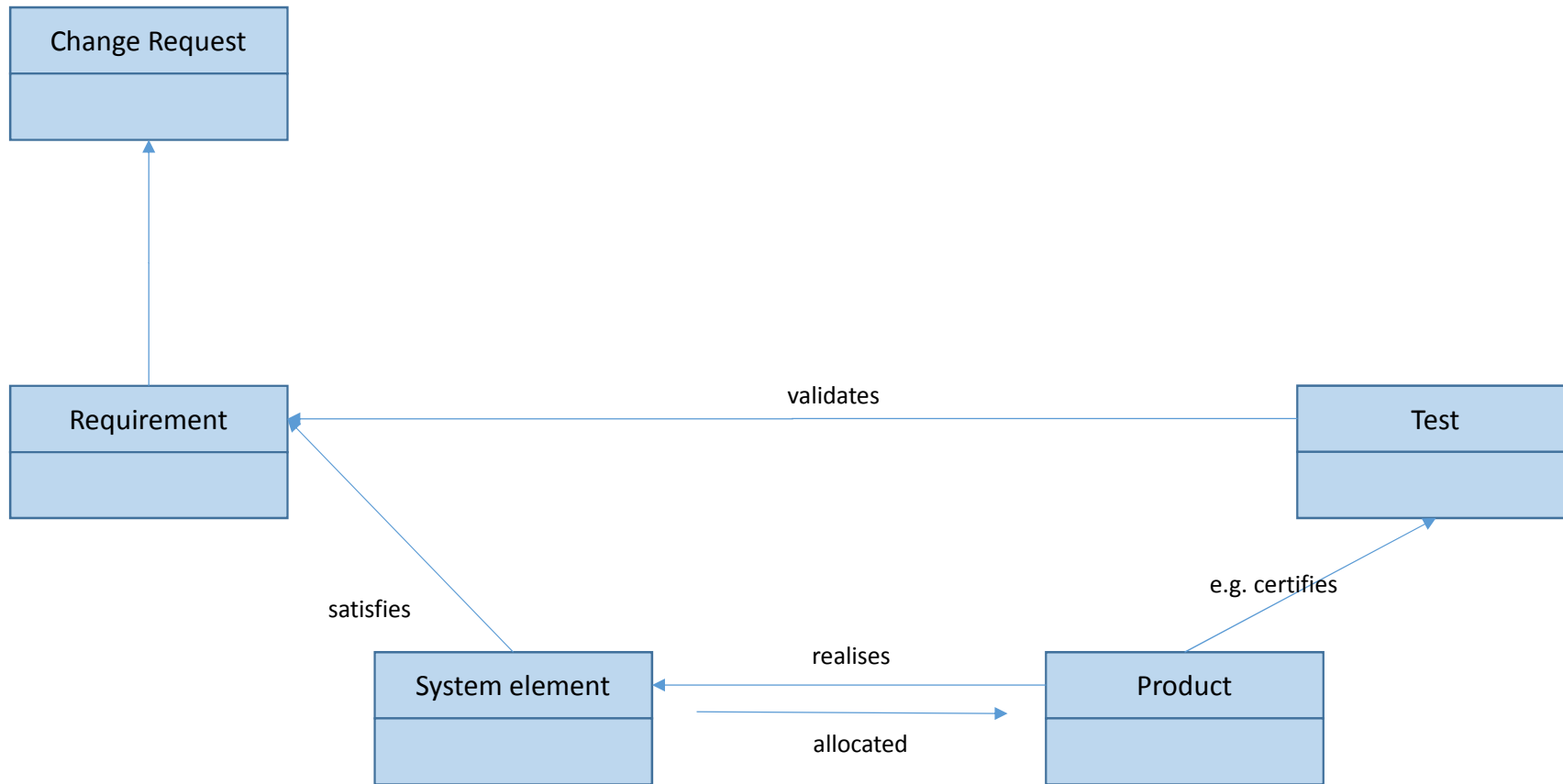# Diagram4: Introducing the combined context

Diagram 5: Elaborated case with well known artefacts
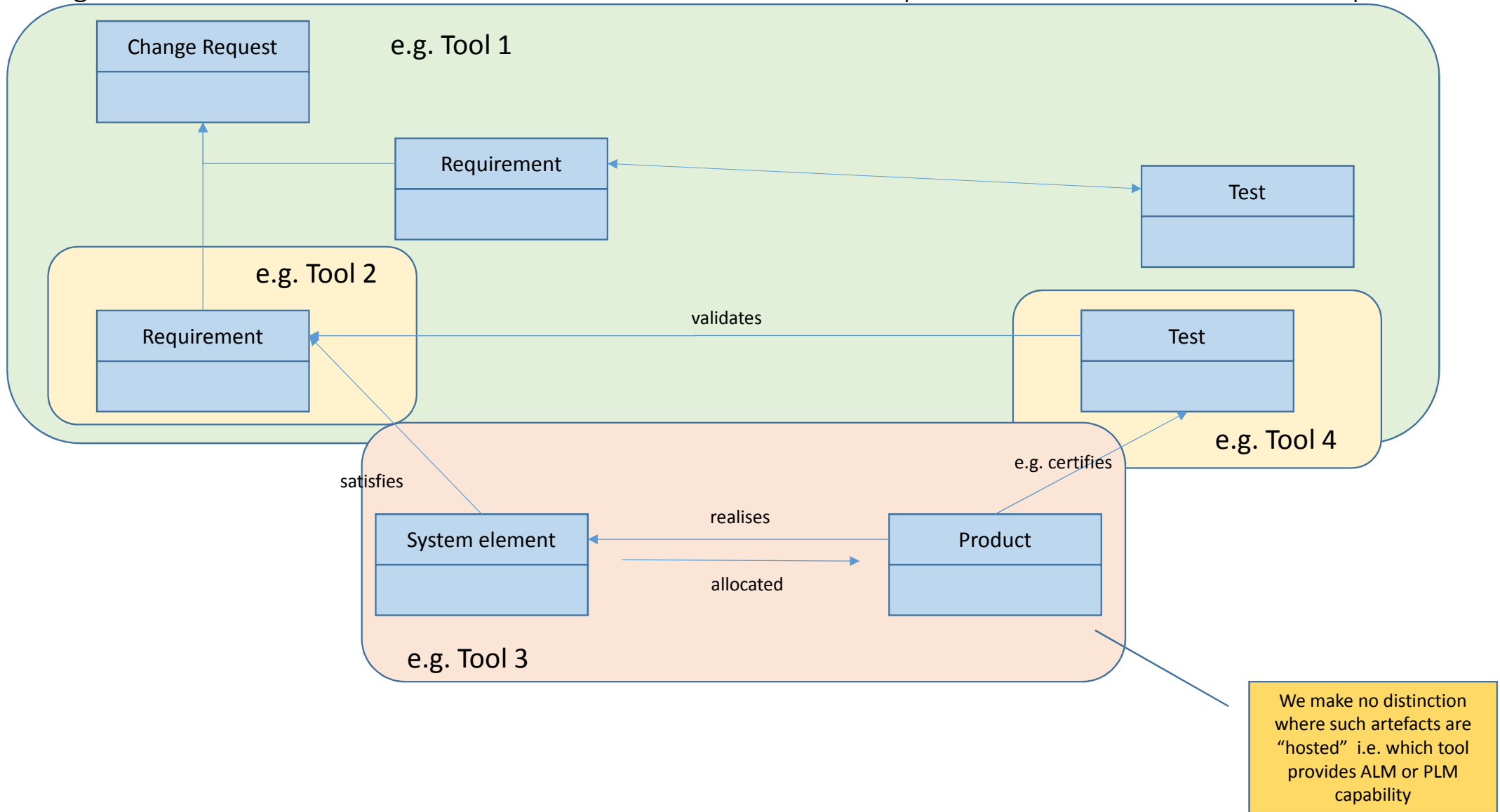
Relationship

- CR to CR
- CR to Product or other affected item (artefact)
- Product to Product – composition, equivalence, concept
- Product to Req - allocation
- System Function to Product – joint realisation

Diagram6: Elaborated case with relationship between key artefacts

Diagram 7: These artefacts can occur in either domain and in multiple instances across the IT landscape

e.g. Tool 1

Change Request

Requirement

Test

e.g. Tool 2

Requirement

validates

Test

e.g. Tool 4

satisfies

e.g. certifies

realises

System element

Product

allocated

e.g. Tool 3

We make no distinction where such artefacts are "hosted" i.e. which tool provides ALM or PLM capability

Approach to finding examples

- Pick some "famous" / wellknown views and ask the question how would we achieve that across a "selected"set
  - A PLM application e.g. Aras
  - A system modeling tool e.g. Rhapsody Design Manager
  - A requirements database e.g. DOORS
  - A simulation tool like Simulink – block diagram
  - An EE tool e.g. Preevision – high level function, schematic, message list, wiring
  - A MCAD tool e.g. Catia
  - A software development tool e.g. Rational Team Concert

What examples and specific cases to show

- Specific artefacts are highlighted to indicate which major applications "should" be considered.
  - e.g., "we should consider Simulink"
  - e.g. to include certain lifecycle phases "e.g. Test and Support"
  - e.g. to show certain artefacts are needed for the supply chain

Expose common system elements

- Logical
- Functional
- Behaviour
- Physical

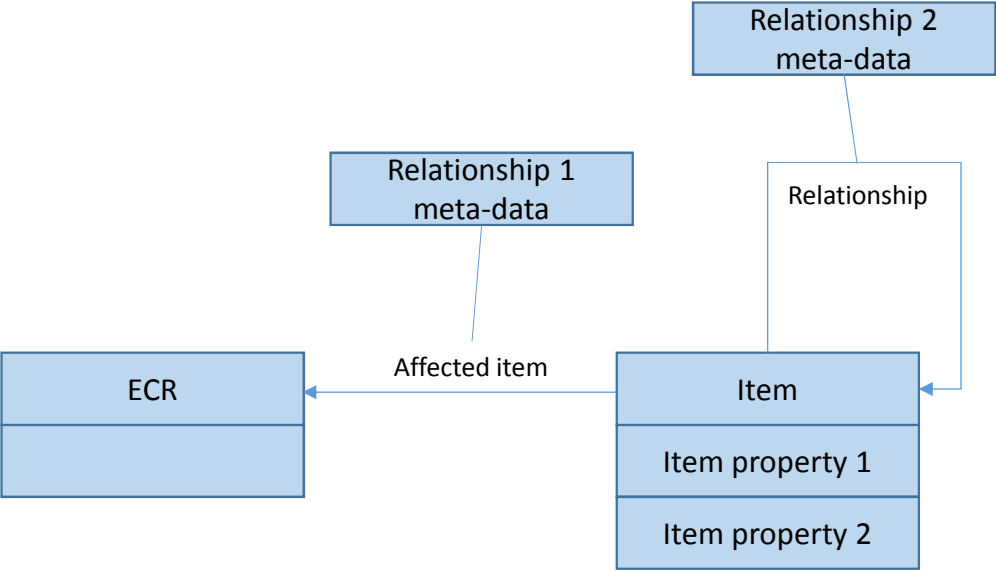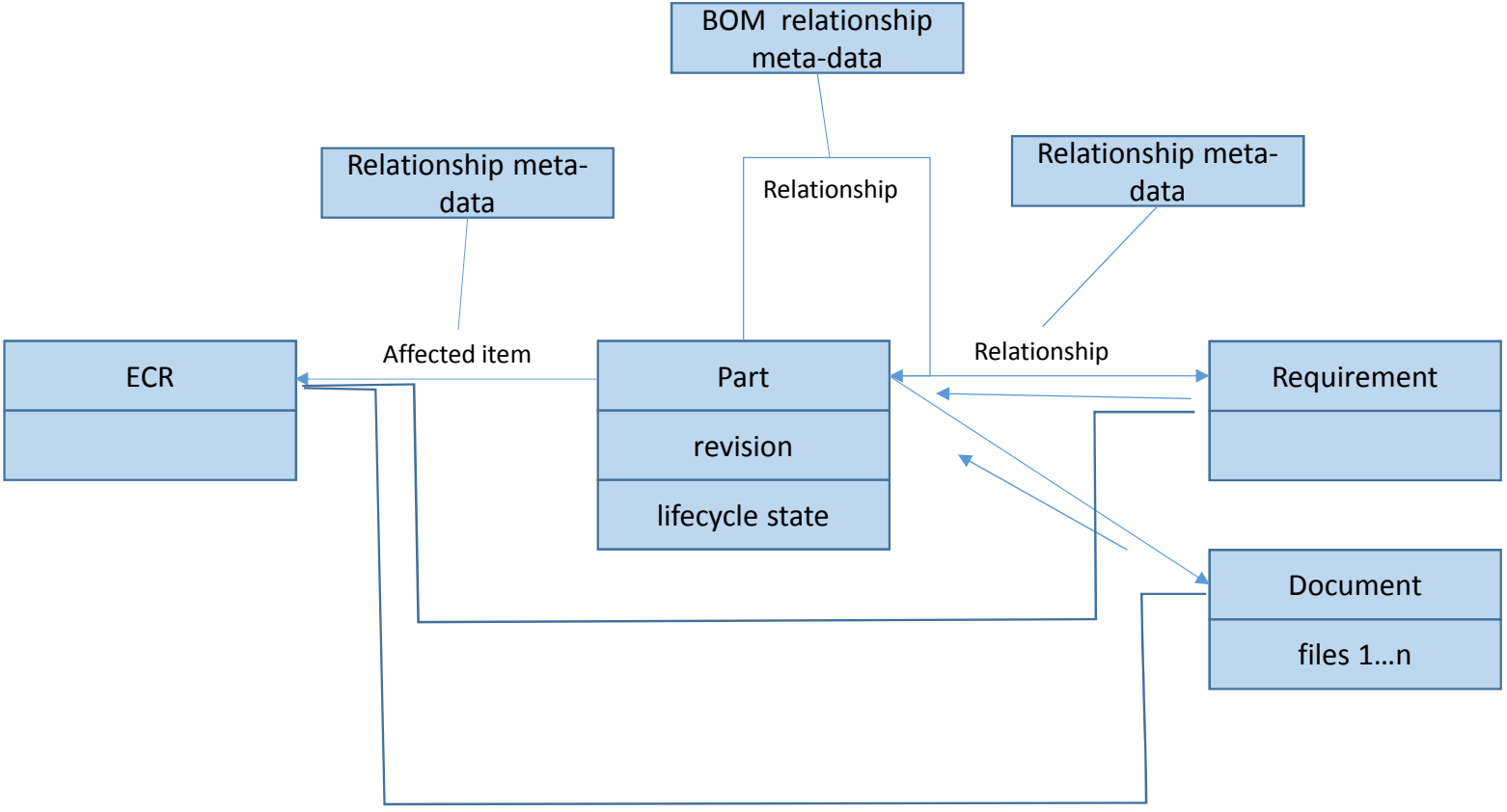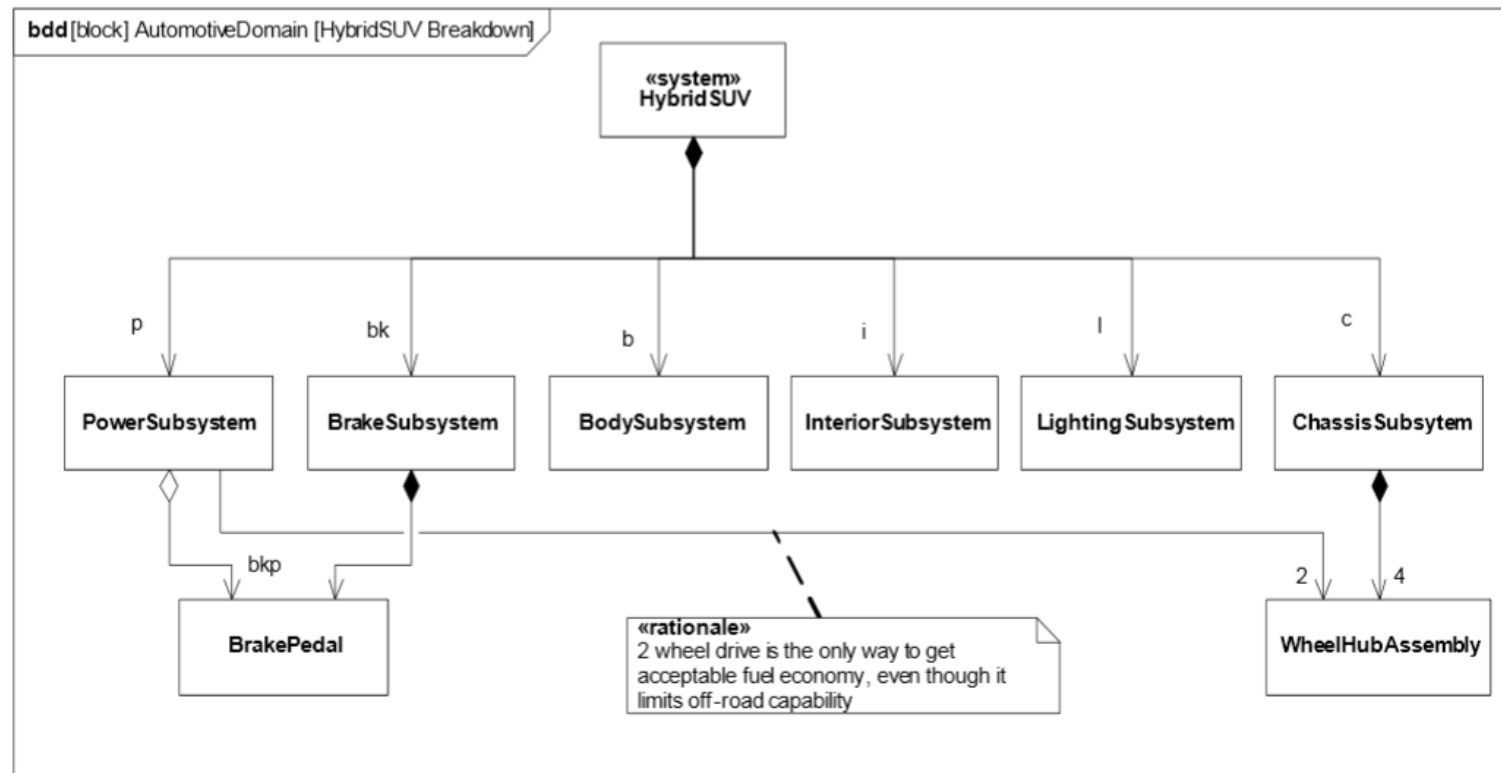# Diagram 8: Sample: Aras Innovator view – meta-model summary

Diagram 9: Aras Innovator view

Selecting examples from the HSUV

Selecting (nearly) real examples from the HSUV model

Thanks to http://www.omg.org/ocsmp/HSUV.pdf

Topics for discussion

- What other examples of artefact and relationships are at hand ?
- What examples to expose from the HSUV model ?