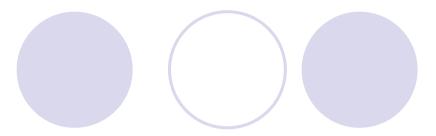


V0.1

Organisers today



- Workgroup lead: Rainer Ersch, Siemens
- Coordinator: Gray Bachelor, IBM

Today's agenda

- Roll call and brief introductions welcome new members
- Objective for today's meeting Discuss progress with the investigation of defining a reference context for SE Scenario #1
- Overview and discussion on representation of context and implementation based upon STEP
- Discuss traceability scenarios within SE Scenario #1
- Overview and discussion representing STEP as resources
- Next steps for working with the OSLC SPECS
- Dates of next meetings Oct 5th and 19th proposed
- AOB
- Summary and close

Today's objectives

- To continue to discuss the product context and implementation based upon STEP
- To agree an approach to define an initial resource definition for context and implementation

V0.1

Summary of the approach

- Our scenario #1 provides the basis for exploring the coverage of the existing OSLC Specs
 - http://open-services.net/bin/view/Main/PlmSystemsEngineeringScenarioSystemsEngineerReactstoChangedRequirements
- We identified two actions as typical of the need to trace product and system context and implementation
 - a4 Locate requirements in change request context
 - a7 Locate Reusable Implementation to Satisfy Change?
- These actions require that we identify means to represent
 - Requirements as configured text, documents and models
 - Ontext and implementation as configured structures, meta-data and models
 - Relationships between Requirements, Context and Implementations
- We propose initially to define a reference or boundary representation of product and/or system to use to evaluate the existing Specs (resources and services)
- There is not a single dominant representation of product and system structure to use as a reference
- We agreed to explore the Standard for the Exchange of Product model data (STEP)
 - Based upon ISO 10303 and is meant for product data exchange between tools
 - has a modular construction applied in multiple Application Protocols with significant industry support
 - has a proven and flexible core construct of Product, Product_version, Product_view_definition
- We agreed to explore and apply the SysML SUV example to support our investigation

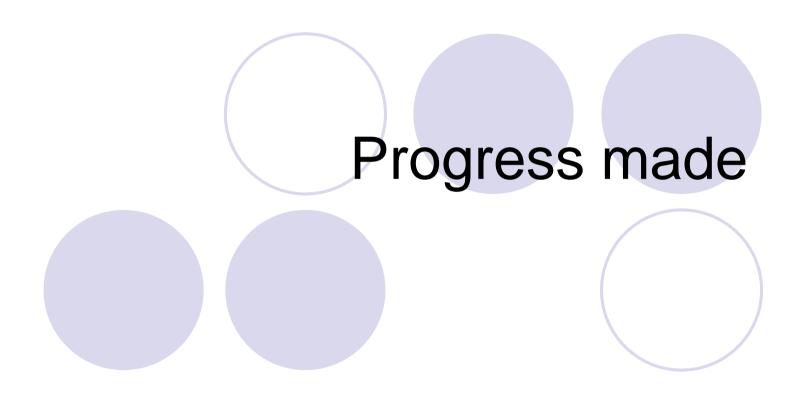
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Progress made

- Initial identification of relevant assets and information in the public domain
- Production of sample data from the SUV SysML example (Requirements diagram)
 - STEP representation (.stp file)
 - OWL representation (.owl file)
- Exploration of SUV Requirements representation in OWL
 - STEP file
 - ontoSTEP
 - Protege

Using the SUV example

- Requirements Diagram mark up
 - Mark up versions
- Derived Requirements mark up
 - Mark up versions
 - Identify not supported in Part 21
- Block Diagram
 - Mark up versions
 - Oldentify not supported in Part 21



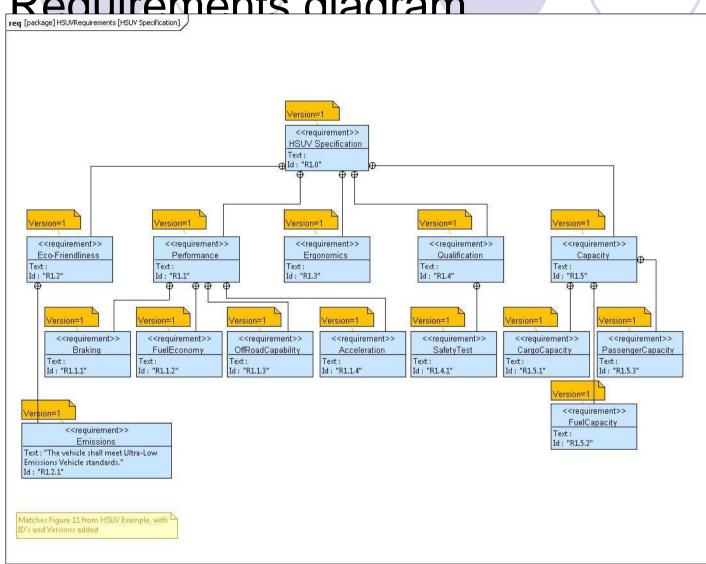
Updated Hybrid SUV SysML assets

Annotated with product IDs and versions

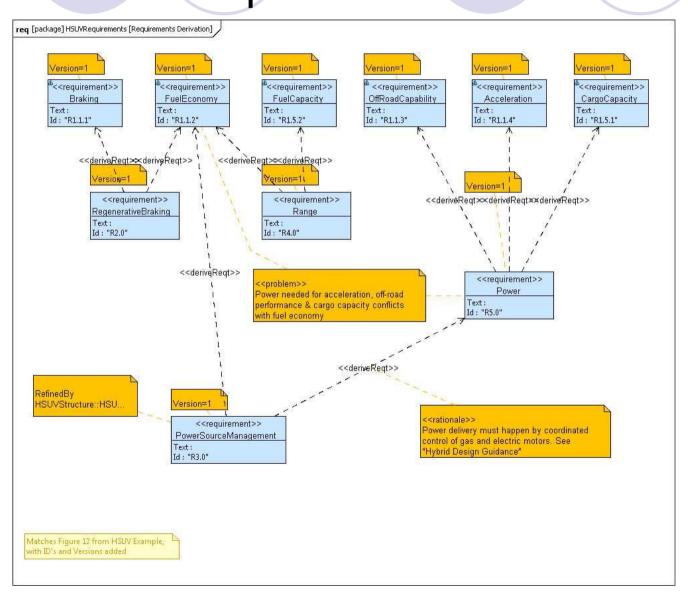
- Requirements diagram
- Requirements derivation
- Block diagram
- Block definition diagram

Updated SysML SUV Model

- Requirements diagram

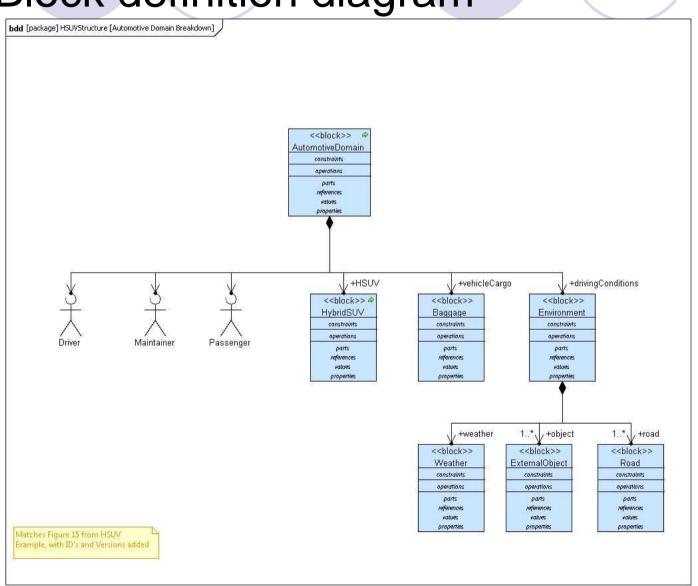


Updated SysML SUV Model - Derived Requirements

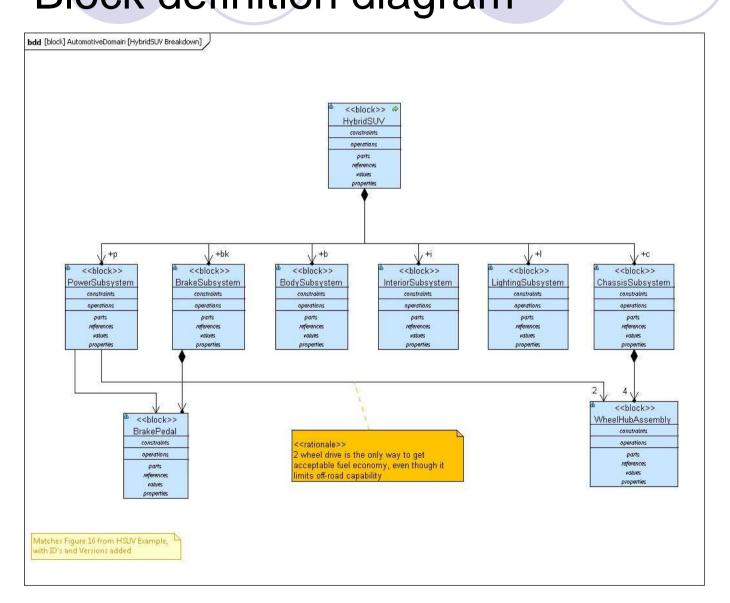


Updated SysML SUV Model

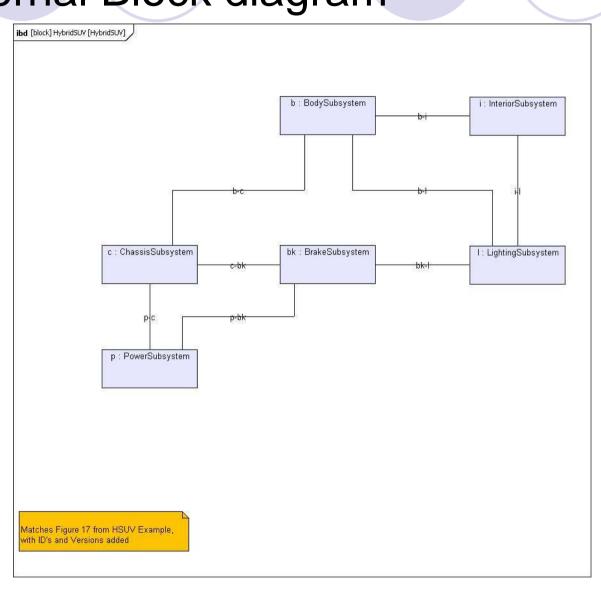
- Block definition diagram



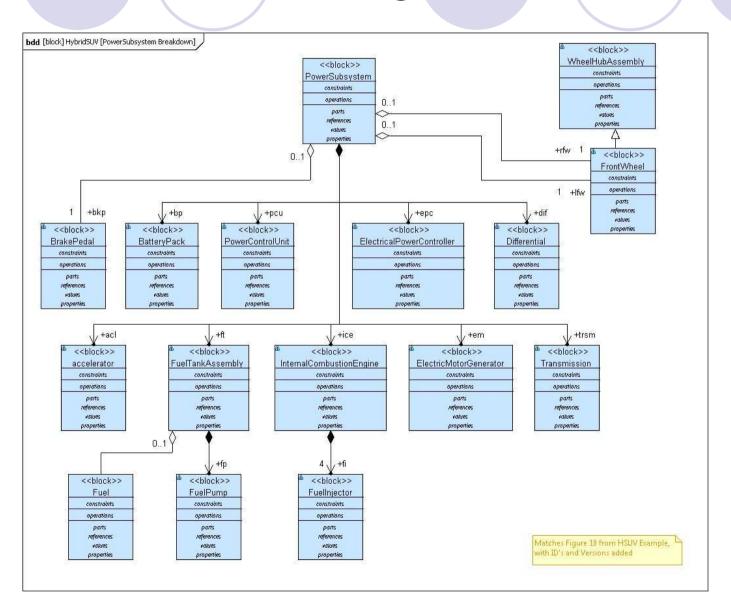
Updated SysML SUV Model - Block definition diagram



Updated SysML SUV Model - Internal Block diagram



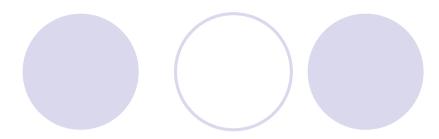
Block definition diagram



Questions

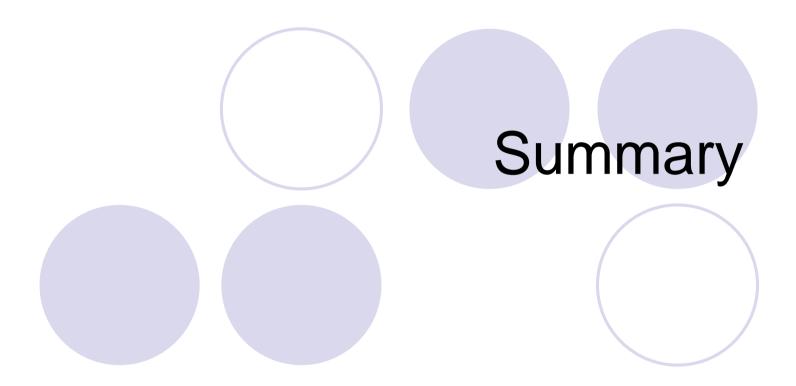
- To allow a basic view of Producthow to show an example of the representation of
 - Parts
 - Alternative part version and configurations
 - Associations and allocations
 - Requirements, Change Requests, Systems structures
- How much of the STEP representation is needed to identify OSLC needs, to
 - "support", "adopt"
 - "know how to use" (actually discover, establish a representation and provide an interface and support use)

Next meeting

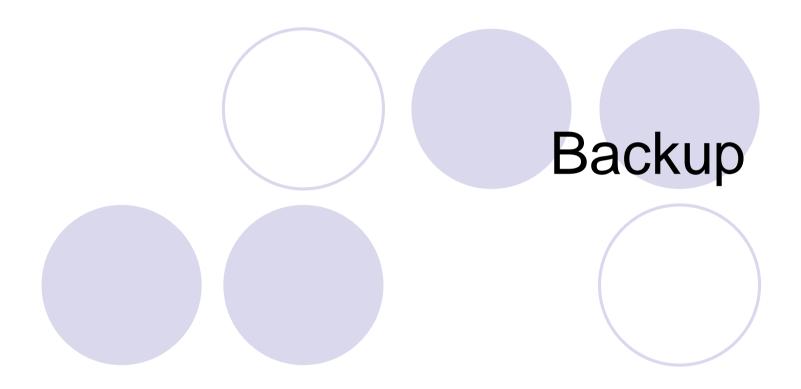


- Propose
 - Next working meetings
 - Oct 5th 11am Eastern proposed
 - Oct 19th 11am Eastern proposed

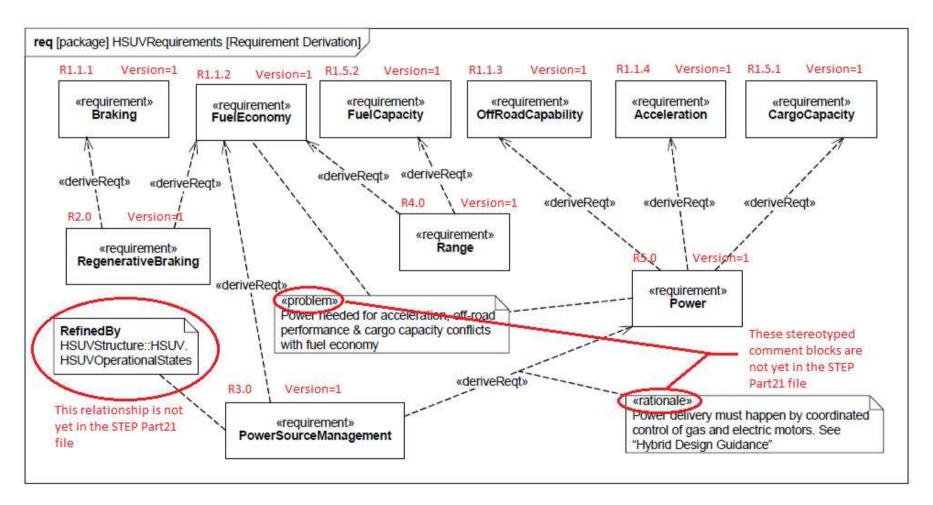
Any other business?







derived_requirements.png



structure_bdd.png

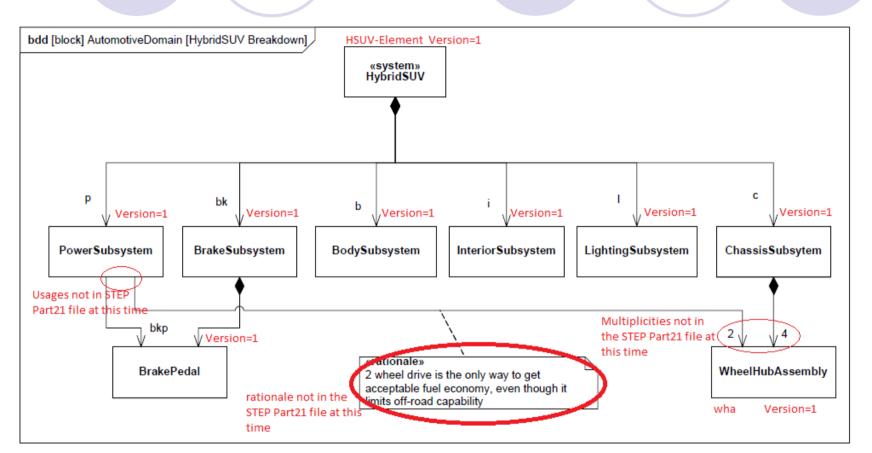
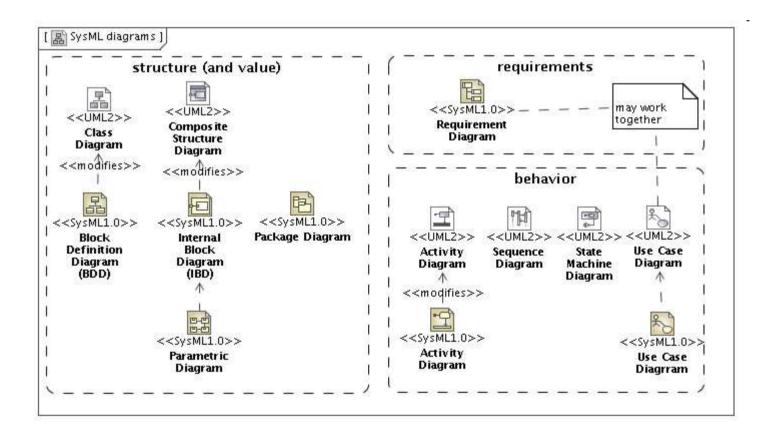


Figure 16 - Defining Structure of the Hybrid SUV System (Block Definition Diagram)





BDD example

