

DoorKeeper for the RSDP

DoorKeeper for the IBM Rational Software Delivery Platform (DK4RSDP) provides access to DOORS requirements and Rational UML/SysML models within the same user interface. DK4RSDP provides viewing and editing of DOORS requirements, creation of links and synchronization between DOORS requirements and UML/SysML models, exporting of UML/SysML models and diagrams to DOORS, and the overall ability to achieve, maintain, and report on traceability between requirements and model elements.

Key Benefits

- ◆ Improve communication by bringing requirements closer to development teams.
- ◆ Automate traceability by eliminating manual mappings and tracking spreadsheets.
- ◆ Meet safety and compliance related traceability requirements such as D0-178B.

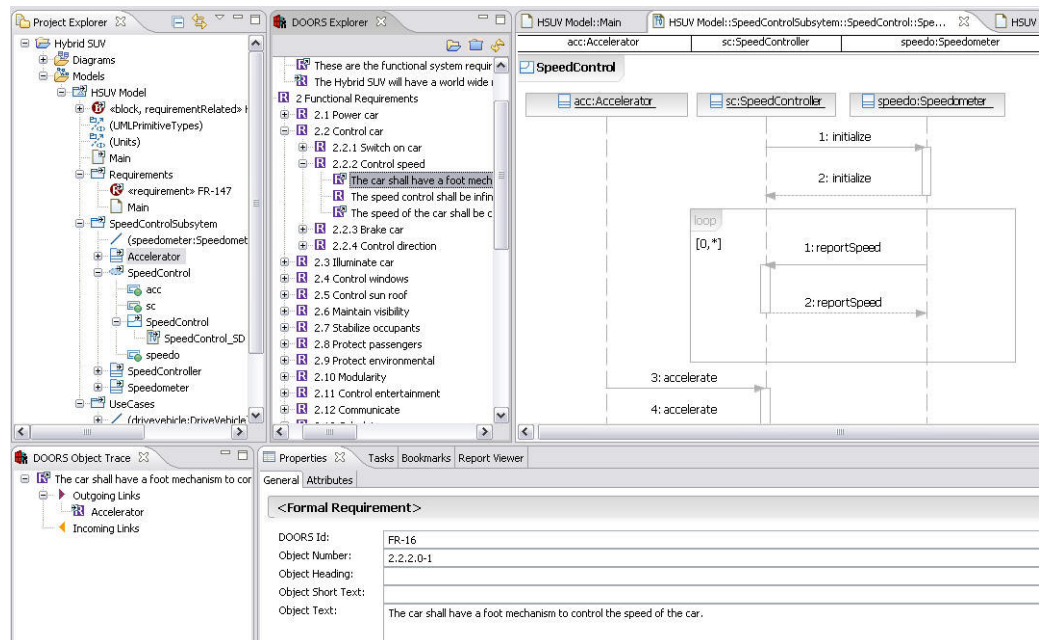
Key Features

- ◆ DOORS requirements accessible with same environment as models.
- ◆ Java API to access DOORS.
- ◆ Trace DOORS requirements to UML/SysML models and C/C++/Java code.
- ◆ Export UML/SysML diagrams to DOORS.
- ◆ Customizable report generation.

APPLYING DK4RSDP

DK4RSDP is a flexible and customizable product which can be applied to achieve many different goals, including:

- ◆ Browsing DOORS modules, requirements, and links within same environment as your UML/SysML modeling environment.
- ◆ Linking and synchronizing DOORS requirements with UML/SysML models and/or C/C++/Java source code via simple drag and drop gestures.
- ◆ Reporting of traceability between model/code and DOORS requirements via customizable reporting functionality.
- ◆ Supporting the creation of Java programs and utilities that access and modify DOORS databases via the Java API. (rather than using DXL)
- ◆ Creating DOORS modules that include UML/SysML diagrams.



Linking DOORS objects with a UML/SysML model

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Exceed Expectations, Not Schedules

FEATURES OF DK4RSDP

- Browse DOORS databases, view and edit DOORS requirements, view links, and navigate directly to objects in DOORS
- Domains for UML/SysML, Java and C/C++ are included allowing linking and synchronizing of DOORS objects with models and source code down to the operation and attribute level.
- Customizable report generation.
- Ability to export UML/SysML diagrams to DOORS databases.
- Fully documented Java API to browse and modify DOORS databases.
- Detailed samples provided to illustrate how to utilize Java API and extension points as well as a sample domain to demonstrate a custom integration with a test tool.
- Extensible link platform to be used to integrate DOORS with any Eclipse-based resource such as test cases, defects, models, and source code by creating a new domain.
- EmbeddedPlus provides consulting and training to assist with understanding and customizing DK4RSDP.

COMPATIBLE SOFTWARE

- Telelogic DOORS® (version 7.0 or higher)
- Rational Software Modeler/Architect and Systems Developer 6.0 and higher
- Rational Rose and Rose Realtime
- Microsoft™ Windows XP Professional, Microsoft™ Windows 2000 Professional

Traceability - Domain Elements to Requirements Report

Domain Project: HSUV Model
 Domain: uml2
 DOORS Project: Auto Requirements
 January 5, 2007 9:40:09 PM EST

Indirect Links

Domain Element		Requirement		
Name	Type	Module	ID	Text
SpeedController	Class	Functional Requirements	FR-15	Control speed
currentSpeed	Property	Functional Requirements	FR-17	The speed control shall be infinitely variable from zero to maximum speed.
Accelerator	Class	Functional Requirements	FR-16	The car shall have a foot mechanism to control the speed of the car.
SpeedControl_SD	SequenceDiagram	Functional Requirements	FR-18	The speed of the car shall be controllable by automatic means.
Main	FreeformDiagram	Functional Requirements	FR-145	These are the functional system requirements for the development of a new passenger motor vehicle as derived from the user requirements.

Direct Links

Domain Element		Requirement		
Name	Type	Module	ID	Text
FR-147	Requirement	Functional Requirements	FR-147	The Hybrid SUV will have a world wide market.
DriveVehicle	UseCase	Use Cases	1	DriveVehicle Driving vehicle includes starting, accelerating, controlling, and stopping.

Report on traceability between UML/SysML model and DOORS module



EmbeddedPlus Engineering provides products and services that transition companies to advanced technologies and methods based on industry standards such as UML, SysML, DO-178B and MDA. Expertise includes tool integration, modeling/simulation and Eclipse-based development and integrations. EmbeddedPlus is an official Qualified Service Provider in the Object Management Group's MDA Fast Start program.

