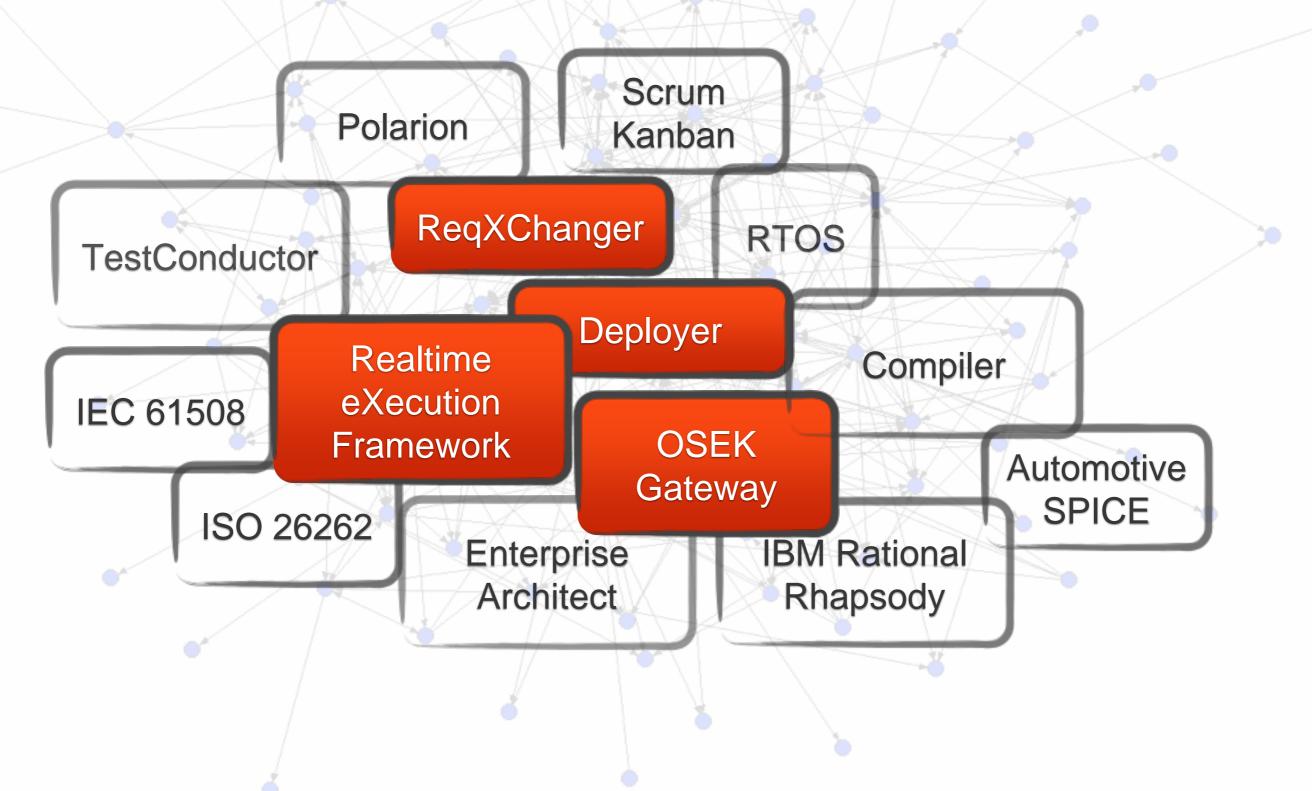
Polarion User Conference 13.10.2015

Marco Matuschek mmatuschek@willert.de

pioneers in embedded software engineering

We sell and integrate Tools

based on best practice workflow, reuse of data, standards and process frameworks

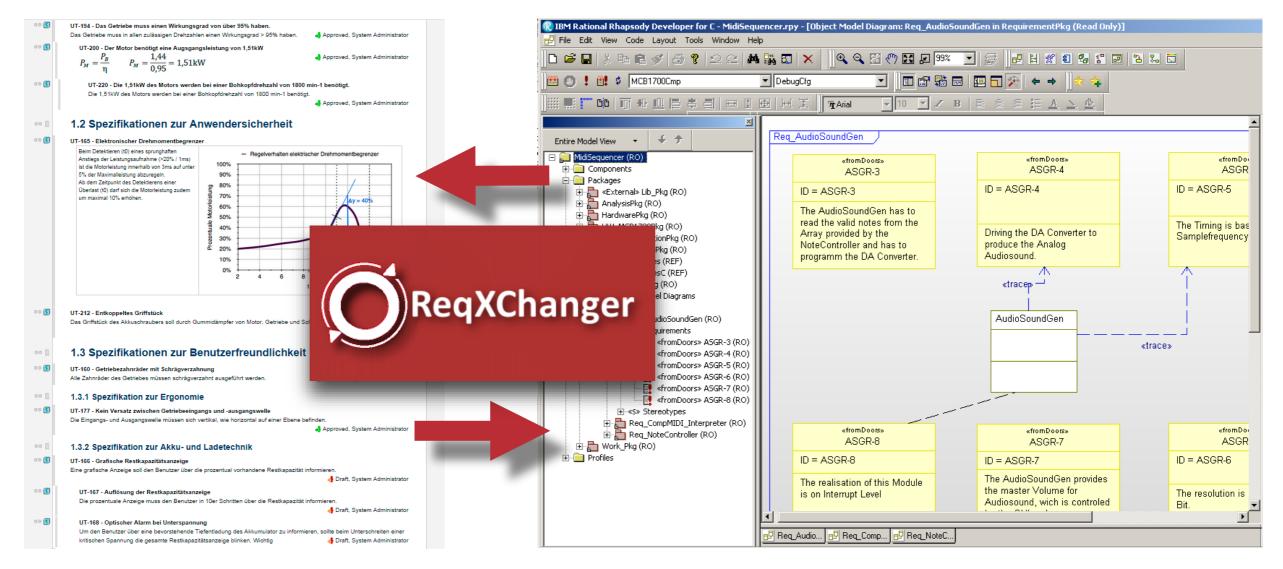


Safety Integrity Level (1-4) in combination with Polarion

Willert Software Tools is Polarion -seller, -trainer and -user Our developer team uses Polarion in different SIL projects

- Railway
- Automotive
- Space

Data Exchange between Polarion and MDD Tools



ReqManagement Solution

UML / SysML Modelling Solution

Full Traceability

User Requirements Software Specifications UML- / SysML-Artefacts





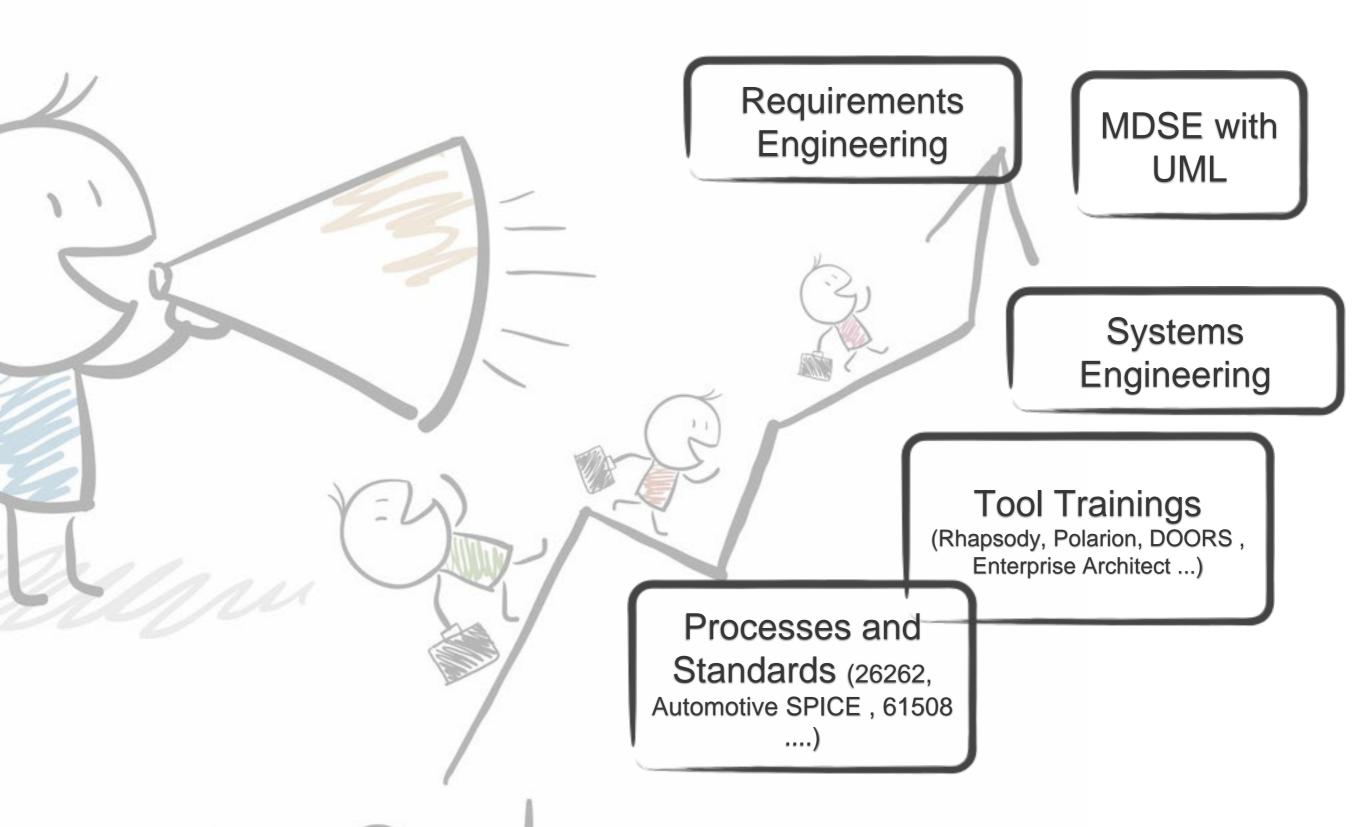
🗊 User Requirements	Software Specifications	RXC Software Artefact
IC-3 - Self Check functionality	IC-7 - Check Sensors before Engine Startup	
Description: A faulty system has to be detected before the engine startup.	Description: The controller must check all connected sensors before the engine can be started.	
	 SIC-10 - Fatal Errors Behaviour Description: Fatal errors may not allow an engine startup. 	
	 SIC-11 - Minor Errors Behaviour Description: Minor errors should allow an emergency run in order to reach the next garage. 	
IC-42 - Camshaft Position Detection	IC-58 - A Hall Sensor has to detect the Camshaft Position	🖃 💏 IC-81 -
Description: The ignition controller requires the exact position of the camshaft to determine the startup for every firing sequence.	Description: A hall sensor has to detect every finalised (trigger is piston 1 in Top Dead Center) rotation of the camshaft.	Ignition_Controller Artefact Path: System::Ignition_Controller
	IC-59 - An Ignition Distributor must determine the correct Ignition Timing and Order	□ 100 - 100 - 100 Ignition_Distributor
	Description: An ignition distributor must determine the correct ignition timing and order for each piston within each ignition sequence.	Artefact Path: System::lgnition_Distributor
IC-43 - Crankshaft Rotational Speed Detection	IC-66 - Software Timer	🖃 🏫 IC-85 - Timer
Description: The ignition controller requires the rotational speed of the crankshaft to determine the ignition timing.	Description: A Software Timer is required to calculate the rotational speed of the crankshaft.	Artefact Path: System::Timer

Requirements Handover with Automobile Manufacturers



We train Knowledge

in real life and practical situations....



QUESTIONS ?



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