

# Function Development with PREEvision

## Agenda VectorAcademy

<b>Duration:</b>	4 Days
<b>Target Group:</b>	System architects, development engineers, quality engineers, documentation managers
<b>Prerequisites:</b>	AUTOSAR basics
<b>Goal:</b>	Develop functions, evaluate and optimize the overall system

### 1. Concepts of PREEvision

- > PREEvision as a product for the whole architecture management
- > Development process
- > Layer model

### 2. Introduction to PREEvision

- > Starting PREEvision the first time
- > Projects
- > Windows and diagrams
- > Perspectives and views
- > Traceability and navigation

### 3. PREEvision in Multi User Mode

- > Lock / Commit
- > Reuse
- > Check in / Check out

### 4. Requirements Layer and Customer Feature Layer

- > Creation of a customer feature list
- > Creation of customer features and requirements
- > Tables
- > Link requirements to customer features
- > Relations between customer features

### 5. Logical Architecture Layer

- > Creation and grouping of logical components
- > Type/instance concept
- > Ports, port interfaces and data elements
- > Connecting ports
- > Activity chains

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### 6. Software Components Layer

- > Creation and grouping of software components
- > Creation and connection of ports
- > Definition of connections
- > Library approach: Type – Prototype – Instance
- > AUTOSAR export

### 7. The Layers Network Topology and Component Architecture

- > Creation and connection of components
- > Creation of bus systems
- > Connection of components to buses
- > Using types

### 8. Signal Routing and Communication

- > Configuration of the signal router
- > Constraints
- > Visualize the router's results
- > Import of existing communication descriptions
- > Communication perspective

### 9. Variants in PREEvision

- > Concepts
- > Artifacts for structuring like Alternatives, Systems and Sets
- > Diagrams
- > Feature based variant management

### 10. Overview of PREEvision's Configuration Capabilities

- > Configurations
- > Rules
- > Metrics
- > Reports

### 11. Questions, Feedback, Suggestions