

Introduction to CANoe Models for FlexRay

Duration:	1 day
Target group:	CANoe users (ECU development, automotive electrical systems, test planning and execution)
Prerequisites:	Fundamentals of FlexRay and CANoe for FlexRay

1 Motivation for CAPL (0.5 h)

Goal: Use CAPL programming language (Communication Access Programming Language) to simulate ECUs (network nodes) and automate measurement sequences

Contents: Areas of use and capabilities of CAPL

2 CAPL fundamentals for FlexRay (2.0h)

Goal: Present the event procedure concept and its use for processing received frames and sending prepared FlexRay frames in a defined time slot

Contents: Event procedures for FlexRay, timers and time functions, time-triggered and event-triggered sending of FlexRay frames and exercises

3 CANoe Signal Server (2.0 h)

Goal: Concept of the Signal Server as a simplification in simulating ECUs

Contents: Functions for reading and setting signals, use of the Signal Server in conjunction with the FIBEX file and exercises

4 Working with panels (2.0 h)

Goal: Use the Panel Editor for creating and modifying control and display panels. Integrate the panels in CANoe

Contents: Panel Editor, environment variables, display elements and controls, bitmap, pointer, Hex-Edit control, use of the Signal Server and exercises

5 Use of the Real Time Box (0.5 h)

Goal: Simulation with elevated data volume or time precision requirements

Contents: Steps for distributing CANoe to two computers, with one computer for analysis and one computer for simulation and configuration and demonstration, performance data

6 Questions, Suggestions, Requests

Goal: Clarification of open issues and open discussion as feedback for Vector