VECTOR

Simulation and Modeling in CANoe.Ethernet

Agenda VectorAcademy

Duration:	1 Day
Target Group:	Users of CANoe.Ethernet
Prerequisites:	Knowledge about Ethernet and IP basics as well as knowledge about application layer protocols in automotive (DoIP, SOME/IP, AVB/TSN, AUTOSAR IPDU and AUTOSAR NM). Knowledge about initiation of an Ethernet network as well as about measuring and analyzing features in CANoe/CANalyzer is recommended.
Goal:	Knowledge about the creation of simulations in CANoe.Ethernet

1 | Introduction — 0.5 h

- CANoe in the development process
- Signal server concept for signals and service signals
- CANoe communication concept for SOA and SOME/IP
- Interaction Layer for AUTOSAR PDUs, SOME/IP and AVB/TSN

2 | Using Interaction Layers in Simulations — 4.0 h

- Creation of configurations for interaction layers
- Adding required interaction layers
- System panel, node and network panels and signal generators
- Creation of panels using the panel designer
- CAPL for traditional signals and service signals

3 | Using the CANoe Communication Concept in Simulations — 2.0 h

- Introduction to CANoe's communication concept
- Creation of a configuration for CANoe's communication concept
- CAPL for CANoe's communication concept

4 | Outlook TCP/IP API and Ethernet Interaction Layer — 0.5 h

- Introduction to the TCP/IP API and the Ethernet interaction layer
- Use cases for the TCP/IP API and the Ethernet interaction layer