

CANoe/CANalyzer Option J1939 Workshop

Duration:	1 Day
Target group:	Users and developers
Prerequisites:	Requires fundamental knowledge of the J1939 protocol as well as CAN, CANoe and CAPL fundamentals

1 Network definition with the J1939 Introduction to CANdb (1,0 h)

Goal: Implementation and use of CANdb in the J1939 environment

Contents: Description of network data in the CANdb database which includes nodes, parameter groups, signals and attributes. Discussion of the main differences between a standard CAN database and a J1939 database

2 Differences between standard CANoe/CANalyzer and the usage in J1939 networks (2,0 h)

Goal: Overview of supplemental functions of the J1939 options

Contents: J1939 extensions in Trace Window, Generator, Filter, and CAPL. Introduce the J1939 Plug-Ins of CANoe/CANalyzer

3 Analyzing of J1939 networks with special functions of option J1939 (2,0 h)

Goal: Convey the usage of the option J1939

Contents: Protocol analysis in the Trace Window and logging, Use of parameter groups in the Generator block, Filter, Data and Graphic windows, Working with expanded functions such as Network Scanner, Diagnostic Plug-In, Node Filter and GPS expansions (Simulator, Monitor). Exercises on PC

4 Modeling of J1939 networks with CAPL node generator (only for CANoe) (2,5 h)

Goal: Create CAPL models in the J1939 environment

Contents: Use of CAPL function libraries (Node Layer DLL) to model controllers. Use the CANdb++ Editor as a network description tool and the J1939 CAPL code generator. Exercises on the PC

5 Questions, Feedback, Suggestions

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