CANoe Option J1939/NMEA2000/ISO11783 Workshop

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

1 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 basic differences between a standard CAN database and a J1939 database

2 Overview of CANoe Expansions (2,0 h)

Goal: Overview of supplemental functions of the J1939/NMEA2000 and ISO11783 options

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, Virtual Terminal and GPS expansions (Simulator, Monitor)

3 Modelling with CANoe (3,5 h)

Goal: Create CAPL models in the J1939 environment

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

4 Questions, Feedback, Suggestions

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