

Vector Ethernet Solution TechDay

Tuesday, Jan 24th 2017 | Vector Austria GmbH | Vienna

Agenda and Information

09:00 Welcome and Registration

09:30 1 Introduction to Ethernet and IEEE 100BASE-T1 in Automotive Vehicles

- > Standard Ethernet vs. 100BASE-T1 (BroadR-Reach)
- > Switched networks vs. field buses such as CAN
- > Experiences and lessons learned from European OEMs

10:15 2 Vector Ethernet Hardware


- > Introduction to 100BASE-T1/Ethernet Network interfaces (VN5610A & VN5640)

11:00  Coffee Break

11:30 3 Developing Architectures with Ethernet and SOME/IP

Architectures containing Ethernet and SOME/IP require new concepts to be adopted and considered during the development cycle:


- > Definition of Service Architectures, Service Interfaces and Service APIs
- > Definition of Clusters, Switch Topologies and VLANS
- > Definition of Sockets

12:15  Lunch

13:30 4 Embedding Ethernet and Security within the ECU software

Managing the challenges of Ethernet enabled ECUs using AUTOSAR embedded software

- > ECU Ethernet Use-Cases: DoIP, SOME/IP, AVB & V2G
- > Cybersecurity considerations for today's connected and autonomous vehicles
- > AUTOSAR solutions for Ethernet & Cybersecurity in the connected car

15:00  Coffee Break

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5 Introduction to SOME/IP

- > Service oriented data transmission concept
- > Conventional data transmission vs. Service oriented data transmission
- > Service discovery concept

16:15

6 Simulation and Analysis of Automotive Ethernet networks

- > Analysis of Ethernet network with CANoe and CANalyzer
- > Simulation of Ethernet network in CANoe and CAPL support
- > Live demo

17:00

Official End of Event

More Information

Registration

www.vector.com/techdays

Participation in Vector event and refreshments are free-of-charge.

Event site

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1200 Vienna
www.vector-austria.com

Your contact at Vector

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Parking

Parking is available in the Millennium Tower (P1/P2/P3).
The first 3 hours are free, after that additional hour is 2€.