veHsm

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom **or** in Remote Format
Duration:	Classroom: 2 days Remote: 12 hours
Target Group:	ECU Developers
Prerequisites:	Participation in the "MICROSAR Cybersecurity Course" or good knowledge about AUTOSAR Classic Platform and Crypto stack.
Goal:	Obtain an overview on the usage of veHsm in an AUTOSAR based ECU and acquire practical skills to configure a veHsm stack (and the related part on MSR side).

1. Introduction to veHsm and understand the workflow

- Motivation and concept of HSM
- Architecture of veHsm
- MICROSAR.HSM – integration and workflow
- Startup flow
- IPC handling
- Host side job execution
- HSM side job execution
- SecOc job handling
- MICROSAR.HSM - features

2. Configuration, Project Guideline & Features

- MICROSAR.HSM – configuration
- Custom handling
- CPU load
- Secure boot
- Secure boot configuration
- Secure boot update
- HSM Updater

3. Exercises

- Symmetric algorithm and key handling
- Asymmetric algorithm with asynchronous approach