Flash Bootloader

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom, Remote format.
Duration:	Classroom: 1 day Remote: 6 hours
Target Group:	ECU developers
Prerequisites:	Knowledge about software development for automotive systems.
Goal:	Obtain an overview on the the basics of Flash Bootloaders and detailed information about Vector's Flash Bootloader product.

1. Introduction

- General Purpose
- Advantages of Flashing Over Bus Systems

2. System Overview

- System Overview
- Simple Memory Layout

3. Basic FBL Procedure

- System Overview
- FBL in Use (without BM)
- FBL in Use (with BM)
- Download Sequence

4. Basic FBL Features

- Flash Bootloader Architecture
- Interrupt Handling
- Boot Manager
- Transition FBL <> Application
- Forced Bootloader Startup
- Flash Driver | Terms and Segmentation | Partitioning
- Validation
- Security Features

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5. Additional Features

- Data Compression and Decompression
- Pipelined Programming
- Pipelined Verification
- Bootloader Updater
- Secure Boot