

calibration data management with DTECS MM at Volvo Technology Corporation

“I support ASAM because information can easily be exchanged by different applications.”

Martin Myllykangas
Service Leader
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i Summary

Challenge: Having calibration data stored in physical files is risky, the files might be replaced, lost or mixed up.

Solution: Controlled database storage of calibration data with DTECS Module Management (Oracle or MS Access).

Key Benefits: Version control and advanced variant handling of calibration data. Easily adaptable to be used with different calibration applications. Store the data in one single system independent place and let every engineer work with the MCD application tool of his/her choice. Currently ETAS INCA, ATI Vision, VAT2000 and DTECS Lab are supported.

ii Situation

Volvo Car Corporation is running DTECS MM together with ETAS INCA on most of their engine and transmission development projects.

Volvo Penta Corporation has recently started using DTECS MM together with ATI Vision application tool

iii Challenges

Secure that the calibration data is transferred between a database and a calibration application in a controlled way.

iv Success strategy

With DTECS MM you create a module based on an ASAM AE MCD-2MC file (ASAP2/A2L file) and the calibration data (.hex, .s...) in a database. The calibration data is divided into different variants and access rights can be set on each label or group of labels if needed. The

engineer gets a local copy of the module on which all labels can be changed in the application tool. After calibrations are done, the data is synchronized back into the database. DTECS MM guarantees that only the labels that the calibration engineer has access rights to are modified in the database.

v Challenges during the project

ASAM AE MCD-2MC files from different suppliers are sometimes interpreted differently by different MCD application tools.

DTECS stores the important information in the files but delivers the original file to the MCD application tool.

vi Business benefits

DTECS MM enables higher quality and efficiency in the calibration process. Flexible use of any MCD application tool and the calibration data is stored at a single place. Save time when new software (ECU program) is available by inherit values and access rights from previous module.

