Release Presentation

ASAM AE MDX V1.1.0

Regensburg, 2010-02-01

Deliverables

- Schema/DTD (asam_ae_mdx_v1.1.0.zip)

- AE-MDX-specification (asam_ae_mdx_v1.1.0.zip)

association for standardisation of automation and measuring systems

Introduction

The MDX (Meta Data eXchange) format (formaly discussed as PaVaSt-Parameter Variable Structure) is used for data specification of an ECUs (Electronic Control Unit) software system.

It contains the following definitions:

- Variables
- Parameters
- Base Types
- Classes
- Computation Methods
- Data Constrain
- Services
- Task
- System Constants
- Units

What's new

- Description of process order and assignement of processes to tasks
- Add reference (SW-Variable)
- Extended SW-Service-description (support callback in C)
- Introduction of SWInterfaceMapping (Customer Interface Layer)
- Support Varianthandling (add SW-DATA-DEF-PROPS-SYSCOND)
- Add the same datadefinition properties as in Autosar 4.0.2
- Adjust Schema to the changes done by AUTOSAR 4.0.2
- Support of SW-DisplayFormat compatibility with ASAM MCD-2MC
- Support of 3-dimensional maps (CUBOID) as decribed in ASAM AE 2MC
- Add the description of refresh timing rate of a measurement object
- Clarify interconnection with FDX
  - documentation of the component structure
- Inconsistence between MDX-XSD, MDX-specification and ASAM-HDO
  - category RAT_FUNC, MAP_INDIVUAL, CURVE_INDIVIDUAL, TAB_INTP, TAB_NOINTP and TAB_Verb

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Compatibility

- MDX-files (version 1.0.0) are not compatible to new version MDX 1.1.0
  - → A converter is necessary

- MDX 1.1.0 is fits to FSX 1.1.0

- Data definition Properties (SW-Data-Def-Props) inside MDX provide the same means as AR 4.0.2