

What is new in ASAM MCD-2D (ODX) Version 2.2 Release candidate?



Dates and Deliverables

Delivery date: 15. February 2008

Content of MCD-2D ODX v2.2 Release candidate

- ODX Specification including
 - UML Model
 - Schema files (generated)
 - Checker rules
 - Examples

- Open issue list for ODX 2.2
 - Final release meeting JEG scheduled for 27./28./29. February

Input for ASAM MCD-2D ODX 2.2 Release Candidate

- Integration of agreed voting feedback from ISO including the feedback from JEG
- Alignment with MCD-3D focuses on the following items: inheritance issues, functional diagnostics, variant identification and environment data
- Alignment with D-PDU API focuses on communication parameter

What is new?

Bugfixes

1. For value coding the ASAM types correspond with XML Schema types/physical types.
2. The ODX package (PDX) is aligned with XHTML and ASAM HDO.
3. The use of POS-RESPONSES, NEG-RESPONSES, GLOBAL-NEG-RESPONSE and NRC-CONST is aligned.
4. The Environment data at trouble codes is simplified so that only references to ENV-DATA are contained in ENV-DATA-DESC.

What is new?

Bugfixes – continued

1. The boundaries for uniqueness of SHORT-NAMEs are adopted.
2. The following interpretations of simple and complex are enhanced:
termination of COMPU-METHOD/DIAG-CODED-TYPE,
termination of Dynamic-End-Marker-Field and
BCD-encoding in byte-fields.
3. The TABLE section is aligned with the useage of DIAG-COMM and
DIAG-VARIABLE. The usage of cascading tables is specified now.
4. The list of checkerrules is adopted due spec lacks and consistency.

What is new?

Enhancements

1. The section ECU memory programming is improved due the experiences of users (sessions/SESSION-DESC, calculation of memory size and addresses, encryption methods, using filters)
2. The section ECU-CONFIG (new in 2.1.0) is improved for consistency.
3. The section FUNCTION-DICTIONARY and SUB-COMPONENTS is improved in alignment of MCD-3D to ensure that FUNCTIO-NODES are executable.
4. Introduce LIBRARY as not executable code (e.g. java source code) which is used by executable code defined within a PROG-CODE instance (Already proposed for v2.1)
5. Append an informative annex User-defined formats for Flashdata instead of standardization.

What is new?

Enhancements – continued

1. The section regarding „value inheritance“ is clarified of ambiguous paragraphs. A new section „Multiple inheritance” points out formerly implicate informations. Also the section describing the inheritance communication parameters has been reworked.
2. The ODX referencing mechanisms are checked. The usage of ECU-SHARED-DATA avoiding redundand data is described explicitly. For parameters with recursive hierarchies (->STRUCTUREs) the new mechanism „SHORT-NAME-PATH-REF“ is introduced.

What is new?

Formal Enhancements

1. The figures are ordered by sections and the format is changed from *wmf* to *tif*.
2. Examples and code snippets of source code are checked.
3. Common formulations are introduced, for example D-server, D-PDU API or odxlink.