Association for Standardisation of
Automation and Measuring Systems

ASAM CERP / CPX

OTX Calibration Expert System Rule and Product model format / OTX Calibration Process Exchange Format

Calib Extension Interface Definition

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Base Standard

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Foreword

The standard describes common extensions, which are used in the domain of

- CPX (Calibration process exchange format) and
- CERP (Calibration expert system rule and product model format)

ASAM MCD-2 CERP defines an exchange format to formalize calibration expert knowledge. This expert knowledge is used to automate calibration tasks and quality assurance. The data format is standardized and exchangeable to support various tool chains in collaborating companies.
ASAM MCD-2 CPX defines a vendor independent exchange format of calibration process descriptions. These descriptions are used for state machine & flow chart workflows and calibration & measurement activities.
For each of these standards an independent reference guide is available. This document is also a reference guide. This reference guide describes such extensions in detail. The content is equivalent to the UML model and the xsd file for each extension. As base of the contained extensions OTX is used ([1], [2]). OTX itself uses a functional extension concept.

OTX (Open test sequence exchange format) is a DSL (Domain Specific Language) to describe test and automation sequences which can be exchanged as standardized XML format between different suppliers. This ensures long time availability, independent from runtime system and platform. OTX is extensible with libraries in a standardized way for different areas. Besides the XML exchange format for the formal description of test logic and automation sequences, other representations like textual or graphical representations can be used.
OTX is targeted primarily at the automotive industry, although the core features of the standard are applicable in any industry. Such test sequences are used in development, production and after sales and can be exchanged between vehicle manufacturers, Tier 1 suppliers and tool providers.