



Association for Standardisation of
Automation and Measuring Systems

ASAM AE CDF

Calibration Data Format

Part 1 of 2

Reference Guide

Version 2.1.0

Date: 2015-06-15

Base Standard

© by ASAM e.V., 2015

Disclaimer

This document is the copyrighted property of ASAM e.V.
Any use is limited to the scope described in the license terms. The license
terms can be viewed at www.asam.net/license

Table of Contents

Foreword	6
1 Introduction	7
1.1 Overview	7
1.2 Motivation	7
1.3 Scope	7
1.4 How to read this document	7
1.4.1 Structure of the element description chapters	7
1.4.2 Text mark-up conventions	8
1.4.3 Graphical conventions in XML structure diagrams	8
2 Elements of CDF V2.1.0	10
2.1 CATEGORY	10
2.2 CS-ENTRY	12
2.3 CSDI	13
2.4 CSPI	14
2.5 CSPR	15
2.6 CSTO	15
2.7 CSTV	16
2.8 CSUS	17
2.9 CSWP	18
2.10 DATA-FILE	19
2.11 DATE	19
2.12 DESC	20
2.13 DISPLAY-NAME	21
2.14 FLAG	22
2.15 LABEL	23
2.16 LOCS	24
2.17 LONG-NAME	26
2.18 MSRSW	27
2.19 NAMELOC	28
2.20 NMLIST	30
2.21 P	31
2.22 REMARK	33

2.23	REVISION	33
2.24	SD	34
2.25	SDG	36
2.26	SDG-CAPTION	37
2.27	SDGS	38
2.28	SHORT-NAME	39
2.29	STATE	41
2.30	SW-ARRAY-INDEX	42
2.31	SW-ARRAYSIZE	43
2.32	SW-AXIS-CONT	45
2.33	SW-AXIS-CONTS	45
2.34	SW-COLLECTION-REF	47
2.35	SW-CS-COLLECTION	49
2.36	SW-CS-COLLECTIONS	51
2.37	SW-CS-FLAG	51
2.38	SW-CS-FLAGS	52
2.39	SW-CS-HISTORY	53
2.40	SW-FEATURE-REF	54
2.41	SW-INSTANCE	56
2.42	SW-INSTANCE-PROPS-VARIANT	59
2.43	SW-INSTANCE-PROPS-VARIANTS	61
2.44	SW-INSTANCE-REF	62
2.45	SW-INSTANCE-SPEC	64
2.46	SW-INSTANCE-TREE	65
2.47	SW-INSTANCE-TREE-ORIGIN	66
2.48	SW-MODEL-LINK	67
2.49	SW-SYSTEM	68
2.50	SW-SYSTEMS	71
2.51	SW-VALUE-CONT	72
2.52	SW-VALUES-CODED	73
2.53	SW-VALUES-PHYS	74
2.54	SW-VCD-CRITERION-REF	74
2.55	SW-VCD-CRITERION-VALUE	76
2.56	SW-VCD-CRITERION-VALUES	77
2.57	SYMBOLIC-FILE	78
2.58	UNIT-DISPLAY-NAME	79

2.59 V	79
2.60 VG	80
2.61 VH	82
2.62 VT	83
3 Common Attributes for all Elements of CDF210	85
List of Figures	86
List of Tables	87

Foreword

The CDF format describes a way how to exchange calibration data between different projects, project team members, suppliers and other involved parties. It allows exchanging data between vendor independent calibration, simulation, documentation, spreadsheet and data acquisition tools. All data are stored as physical values described in common data types of the automotive area. Especially supports CDF V2.1 all data constructions defined in the ASAM MCD 2MC V1.7 and is compatible to ASAM AE MDX V1.2 standard. Additionally CDF supports Quality Meta Data to describe not only the values of a calibration but also its states in the development process. This allows to document and transfer quality decisions made at calibration time.