Association for Standardisation of
Automation and Measuring Systems

ASAM ASAP3

Automation / Optimization Interface for ECU Calibration System

Interface Specification

Version 2.1.1

Date: 1999-12-16

Base Standard

© by ASAM e.V., 1999

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

1 REVISION HISTORY 5

2 OVERVIEW 6

2.1 OPERATIONAL SAFETY OF THE ASAP3 INTERFACE 7
2.2 REQUEST FOR DATA ACQUISITION 7

3 LIST OF CHANGES 8

3.1 CHANGES WITH RESPECT TO VERSION 2.0 8
3.1.1 Transmission 8
3.1.2 Data Formats 8
3.1.3 Telegram Structure 8
3.1.4 Communication Sequence 8
3.1.5 Extended existing commands 8
3.1.6 New Commands 9
3.1.7 Command Sequences 10
3.2 CHANGES WITH RESPECT TO VERSION 1.0 10
3.2.1 Version Mechanism 10
3.2.2 Transmission 10
3.2.3 Data Formats 10
3.2.4 Data Frames 11
3.2.5 Functions 11
3.2.6 Status 11

4 DATA FORMATS 12

5 TELEGRAM STRUCTURE 15

6 COMMUNICATION SEQUENCE 18

7 DETAILED COMMANDS 19

7.1 GENERAL 21
7.2 INITIALISATION, IDENTIFICATION, EMERGENCY 21
7.3 CONFIGURATION 23
7.4 MAP MANIPULATION 26
7.4.1 Extended Map Manipulation 29
7.5 MEASUREMENT DATA AQUISTION 33
7.6 PARAMETER MANIPULATION 36
7.6.1 Extended Parameter Manipulation 37
7.7 RECORDER 38
7.8 MISCELLANEOUS 44
7.9 CONTAINER 46

8 COMMAND SEQUENCES 50

8.1 EXAMPLES 50

9 STATE DIAGRAM 56

9.1 STATE DIAGRAM WITHOUT RECORDER 56
9.2 STATE DIAGRAMM OF RECORDER 57

10 COMMAND OVERVIEW 58

11 GLOSSARY 60

12 ABBREVIATIONS 62

13 INDEX 63

Note: These specifications may be changed without prior notice.