ASAM

Association for Standardization of
Automation and Measuring Systems

ASAM ODS

Open Data Services 6.2.0

Part 1 of 15

Introduction

Version 6.2.0

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Base Standard

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FOREWORD

This document contains chapter 1 of the ASAM ODS base standard, version 6.2.0.

Chapter 1 of the ASAM ODS base standard provides a brief overview on all main aspects of ASAM ODS.

It is intended as initial source of information for people interested in ASAM ODS and shall be used to gain insight into the various features of ASAM ODS.

This chapter is part of a series of chapters specifying the ASAM ODS base standard, and must not be used as a stand-alone specification. The technical reference of the ASAM ODS base standard is built by the complete set of chapters as listed below:

- Chapter 1: Introduction
- Chapter 2: Relation to Other Standards
- Chapter 3: Architecture
- Chapter 4: Base Model (36)
- Chapter 5: OO-API (5.3.1)
- Chapter 6: RPC-API (3.2.1)
- Chapter 7: ATF/XML (1.3.1)
- Chapter 8: ATF/CLA (1.4.1)
- Chapter 9: Physical Storage (1.4.0)
- Chapter 10: MIME Types and External References (1.2.3)
- Chapter 11: HTTP-API (1.2.0)
- Chapter 12: Terms and Definitions
- Chapter 13: Symbols and Abbreviations
- Chapter 14: Bibliography
- Chapter 15: Appendices

1 INTRODUCTION TO ASAM ODS

The rapid progress in hard- and software leads to storage of data in many different data base systems as well as under different hardware and/or server generations – not only within the automotive industry, but also within the supplying industry.
During development and production of vehicles, a huge mass of data is produced. Today, data are stored within the automotive industry in a standardized format specified by the ASAM ODS workgroup. ASAM stands for "Association for Standardization of Automation and Measuring Systems", and ODS stands for "Open Data Services".
The ASAM ODS standard has the fundamental quality of storing data with an architecture-independent method. This leads to great advantages when exchanging data between different sources and possible prospective customers.

This chapter shall provide an overview of the goals of ASAM ODS as well as the technical approaches made to achieve these goals.
It is intended for readers with some technical background that want to get an impression on what ASAM ODS really standardizes and how the standards work. Readers may get an impression on what it means to implement these standards and what real benefit they may draw from using the standards.
Furthermore, this chapter may be a starting point for implementers, before they dive into the detail standards specification itself.
This chapter must NOT be seen as a specification; it is an introduction with some details to provide an overview to the interested reader.

1.1 GOALS AND BENEFITS OF ASAM ODS

1.1.1 POSITIONING OF ASAM ODS WITHIN ASAM

ASAM standards are categorized in several technology areas. They are listed and briefly described on the ASAM webpage.

ASAM ODS belongs to the technology area "Data Management & Analysis" and is that part of the ASAM standards which focuses on persistent storage and retrieval of data. ASAM ODS describes the physical storage of information as well as service interfaces. Service interfaces can be used by any component of the testing environment to store its data and/or retrieve data required for proper operation.

Components using these interfaces are typically

- data acquisition systems, collecting data from a vehicle, an engine, etc.
- test control systems, used for running test procedures
- optimization tools, looking for an optimum set of calibration parameters
- analysis and reporting tools, presenting data to engineers and decision makers
- evaluation tools, supporting research and development tasks