ASAM AE ATX v1.0.1
Release Presentation

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Association for Standardization of
Automation and Measuring Systems
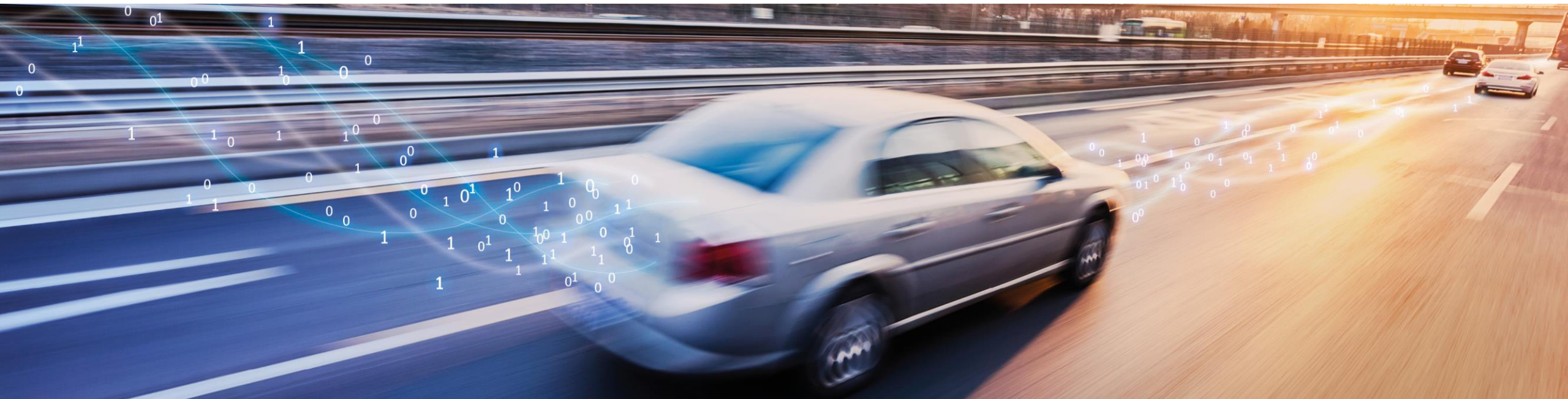
Agenda

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Introduction

The ASAM Automotive Test Exchange (ATX) is a standardized XML format which enables the exchange of test data between different test systems.

The following data is handled by ATX:

- Test specifications

- Test execution plans

- Test reports

- Test data (parameters values)

- Test programs and test libraries

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Motivation

The XML element TEST-OBJECT-SET lets you specify a set of related objects under test.

ATX already allows for referencing a set of test objects, identified by TEST-OBJECT-REF:

destination → ↓ source ↓ CATEGORY		TEST-OBJECT-SET
TEST-EXECUTION-PLAN		●
PLANNED-TEST-CASE		●
TEST-SPEC	ATX_TEST_SPEC	●
	ATX_TEST_REPORT	●
TEST-CASE	ATX_TEST_SPEC	●
	ATX_TEST_REPORT	●

The new revised standard additionally supports to reference a particular test object as well, which is useful, for example, for test reports.

This equally applies to a TEST-ENVIRONMENT-SET with particular TEST-ENVIRONMENTs and the reference TEST-ENVIRONMENT-REF.

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New Features

The destination type of TEST-OBJECT-REF, which defines the type of the referenced object,

is extended in order to support a pinpoint reference to a particular test object:

destination → ↓ source ↓ CATEGORY		TEST-OBJECT-SET	TEST-OBJECT
TEST-EXECUTION-PLAN			●
PLANNED-TEST-CASE			●
TEST-SPEC	ATX_TEST_SPEC	●	
	ATX_TEST_REPORT		●
TEST-CASE	ATX_TEST_SPEC	●	
	ATX_TEST_REPORT		●

The symbols (●) denote the recommended options, however the ATX schema
always allows for referencing a set of test objects as well as a particular test object.

This equally applies to a TEST-ENVIRONMENT-REF with a pinpoint reference to a particular
test environment.

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Other Changes

No additional changes has been made.

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Backward Compatibility

ASAM AE ATX v1.0.1 is backward compatible, i.e. a test system of version 1.0.1 accepts test cases that worked under the previous version.

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Relation to Other Standards

ASAM Harmonized Data Objects v1.1.0

- ADMIN-DATA
- and other description items

ASAM AE Functional Specification Exchange Format v1.1.0

- LABELED-LIST
- and other description items

AUTOSAR 4.0 Software Component Template

- AR-PACKAGE
- and other description items

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Deliverables

Documents

- XML schema reference guide
- Programmer's guide

Supplementary Files

- XML schema files
- Sample files

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Outlook

Adaptability and Scalability Challenge

ATX is a rich standard which supports detailed technical specifications for different or evolving operational or usage environments.

However the extent of test data to be exchanged presumably varies among different kinds of software applications (e.g. test automation tools, analysis tools or test management tools).

If ATX provided support for scalability of its capacity (e.g. through authoring guidelines), the development of different kinds of software applications could become much easier.

Number of open CRs:

Error	0
Clarification	0
Feature	0
Improvement	0
Indetermined	0

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