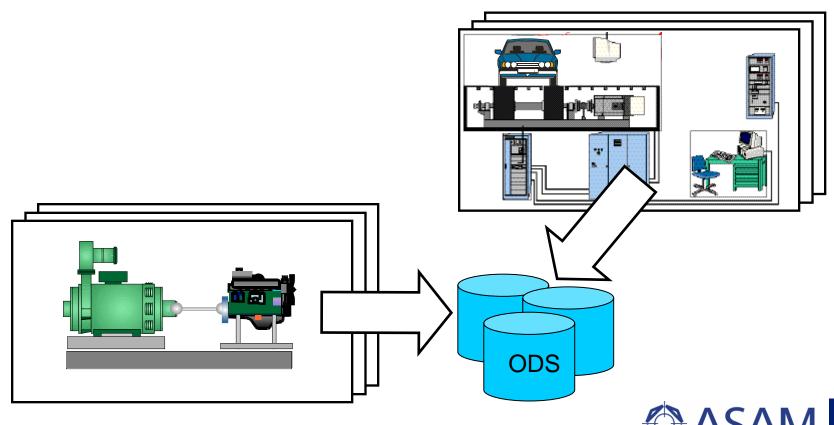
What's New in ODS 5.2.0 Release 2009, P18-2008

ASAM-TSC, Nov. 17, 2009, Paderborn

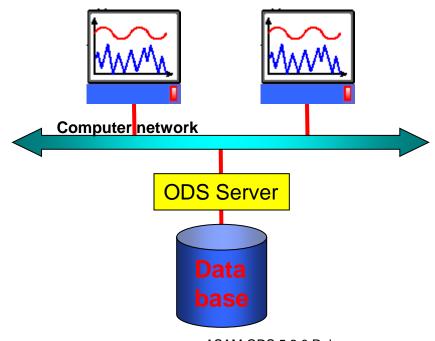


ASAM ODS is intended to define a standard for archiving test result data persistently.



ASAM ODS defines

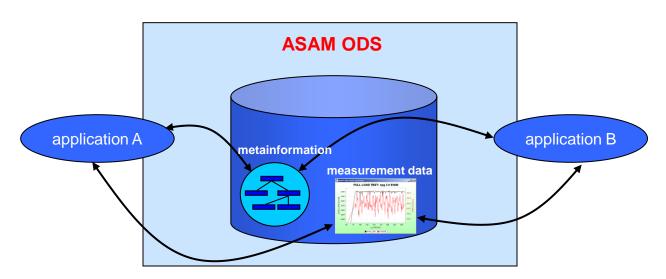
- ➤ an Application Programming Interface for a server. The server is a front end to a traditional data base.
- The server is accessible via a TCP/IP computer network.





ASAM ODS defines

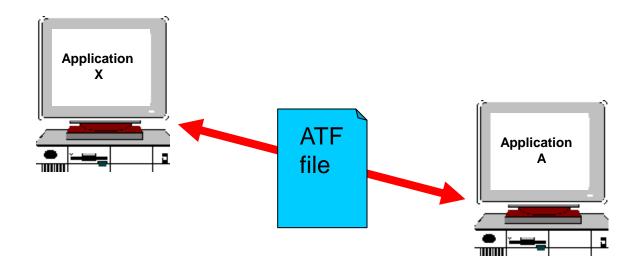
- ➤ a Basic Data Model which can be mapped to customer specific applications (engine test, brake test, engine calibration, ... etc.)
- a Meta Data Model enabling a client application to navigate through customer specific, resp. application specific data structures





ASAM ODS defines

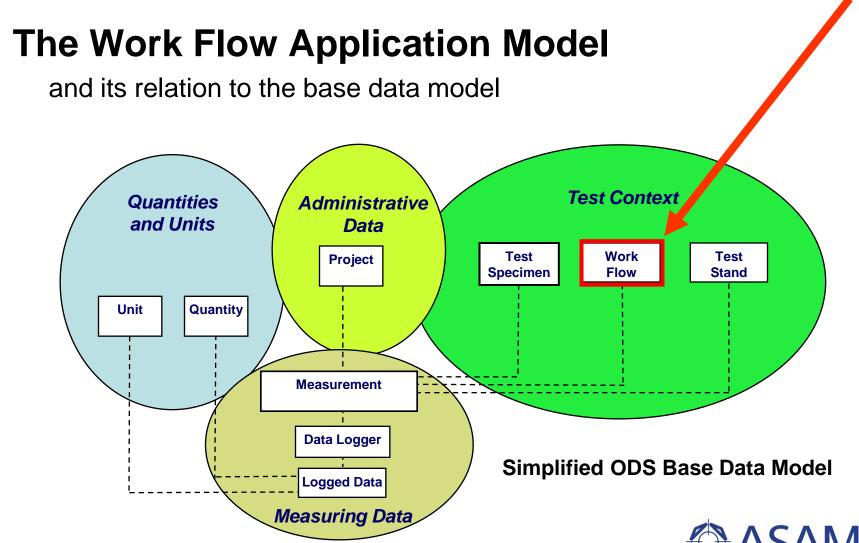
> a file format for the exchange of test result data



ASAM ODS 5.2.0

- > defines data models for dedicated applications like
 - ♦ NVH data
 - ♦ Test stand calibration data
 - ♦ Workflows (new)
 - Secometry data (new)
- supports gateways to foreign data formats
 - **⇔** Compatibility with MDF 4.0
 - compatibility was achieved by a close cooperation between the ODS and MDF working groups during the period 2008-2009
- is compatible to previous release 5.1.0





The Work Flow Application Model

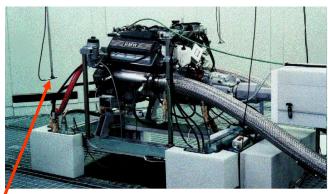
- based on the Petri Net technology
- > allows to trace each step in a workflow run, e.g.
 - ♦ Test preparation
 - ♦ Test execution
 - ♦ Test result evaluation
- Applicable to trace test executions like
 - ♦ Engine emission test
 - ♦ Administration vehicle endurance test
 - Seneral test run and data analysis
 - \$....and many others

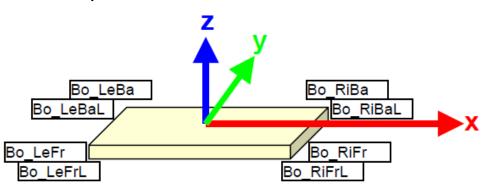


The Geometry Application Model

- > Typical application field is NVH test domain
- ➤ Allows to specify sensor locations (e.g. microphone, acceleration, temperature sensor, ...)
- Documenting

 - ♦ link from sensors to measurement quantities





Microphone as sensor

ASAM

Numerous improvements of specification, e.g.

- chap 1 Introduction: summary of ODS-defined application models
- chap 2 Architecture: relation to MDF4 specification
- chap 3 Physical Storage: new supported data types
- chap 4 Base Model: alias names for multilanguage environment
- chap 5 ATF/CLA: improved security concept description
- chap 6 ATF/XML: dto. & case sensitivity for names
- chap 8 MIME types: additions for NVH, geometry, workflow
- chap 9 PRC-API: improved security concept description
- chap 10 OO-API: 11 new methods
- chap 11 NVH Model: rainflow storage revised, performance issue
- chap 12 Calibration model: name change due to DB restriction
- chap 13 Geometry model: new
- chap 14 Work flow model: new



Version History

ASAM ODS 4.0 June 29, 2000

ASAM ODS 4.1 July 10, 2001

ASAM ODS 5.0 Sep. 30, 2004 (ISO-PAS 22720)

ASAM ODS 5.1 Mar. 08, 2006

ASAM ODS 5.2 Nov. 17, 2009 released

Deliverables P18-2008

- Specification incl. API description (in total 1512 pages)
- ➤ IDL description of API interface (~10.000 lines)
- > Basic data model as step express file
- > XML schema files
- Example ATF files
- "What's New" presentation



Work Group Members

1	FH Cologne
2	Audi AG
3	AVL
4	HighQSoft
5	HORIBA Europe
6	LMS
7	Müller-BBM
8	National Instruments

Robert Bosch GmbH
MFP GmbH
Peak Solutions

Project Timing

Start: July 2006 Finish: Oct. 2009

Meetings

~13 in-person meetings, mostly 2-days meetings

Change Requests

~ 250

