openMDM® Working Group

Platform for implementing Test Data Management

www.peak-solution.de

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Challenges

„Central repository for test data“

- Uniform storage of test data coming from different data sources
- Independent from specific measurement and analysis tools
- Suitable for building integrated tool chains
- Management of the test context (meta data)
- Unambiguous interpretation of the stored test results
- Global / company wide search for test data over all test storages
- Scalable in terms of data volume, number of users and global use
- Capabilities to protect information from unauthorized access
openMDM ® Working Group

“Collaboration of several companies“

- Since: 2014

- Aim: Development of an open source framework for the efficient implementation of test data management solutions based on the **ASAM ODS** standard

- Basis: A software framework called openMDM 4, mainly driven by Audi since 2010

- Intension: Creation of an organizational framework which makes it possible to drive collaborative development and push further improvements of openMDM more intensively

- Founding members:
Overview openMDM®

Framework for Test Data Management – Central data hub for ALL testing data

Integration of testing systems
- Road Tests
- Bench Tests
- Simulations

openMDM®
- Frontend
- Backend
- ASAM ODS

Integration of processing systems
- Analysis
- Reporting
- Exchange

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Overview openMDM®

Backend Components

Integration of testing systems
- Road Tests
- Bench Tests
- Simulations

Integration of processing systems
- Analysis
- Reporting
- Exchange

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Frontend
Access Components
- REST API
- Java API
- ODS Adapter

ASAM ODS
Overview openMDM®

Scalability - global access to test data
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Web Client

Search

Select

Preview (Channel)

Download

Files
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REST API – Endless possibilities for integrations
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A mature platform for diverse testing fields - existing use cases

- NVH
- Passive safety (Crash)
- Active safety (Driving Assistance systems)
- Classic engine development (combustion)
- Electronic testing
- HVS (High Voltage Storage)
- E-mobility
- Fuel and consumption
- Environment testing
openMDM® - new trends

further integration possibilities

openScenario DB

Project management

PLM

openMDM®

Big data clouds

Simulation (e.g. openPASS)
new trends example - Data Running openMDM with big data cluster (in the cloud)
openMDM® - new trends

Integration as test data hub for ADAS / AD development
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We are looking for partner for further integration!

- Working groups
- Research institutes / projects
- Standardization organization
- Interested companies
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Beyond proprietary solutions for Test Data Management

- Standardized
- Open
- Vendor-independent
- Versatile
- Adaptable / Integrative
- Future-proof

More information:

- Homepage of openMDM: https://www.openmdm.org/
- Project Page of openMDM: https://projects.eclipse.org/projects/technology.mdmbll

Check it out - Try it out (Proof of concept) - Become an active part of the openMDM Working Group ...
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Beyond proprietary solutions for Test Data Management

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