



openMDM[®] Working Group

Platform for implementing Test Data Management



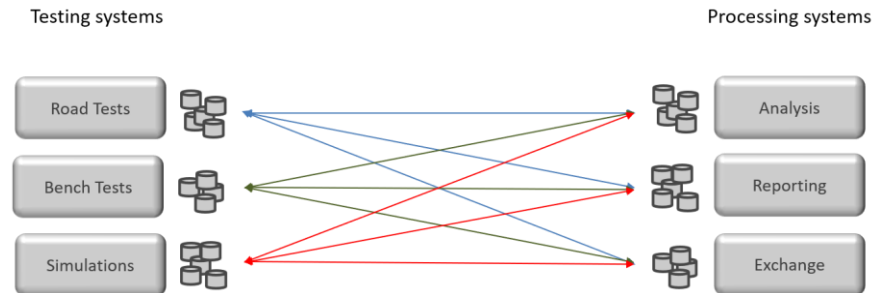
Dr. Hans-Jörg Kremer



Background

„Why an open, vendor-independent platform for Test Data Management?“

- Huge amounts of test data are created during vehicle development
- Different development areas and test domains create test data
- Diverse domain-specific test methods, measuring systems, analysis tools and simulations are used to create and process the test data
- A variety of data formats are used for storing the created test data



A lack of transparency as well as increasing complexity of data analysis and long-term reusability of data

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
- User-friendly functions for browsing and finding test data
- Scalable in terms of data volume, number of users and global use
- Capabilities to protect information from unauthorized access

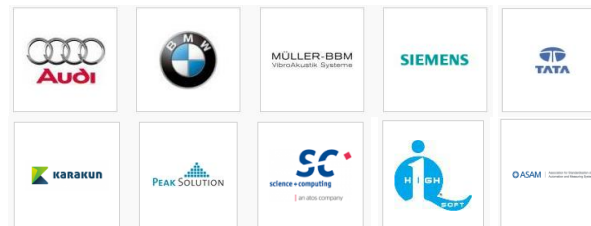




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„Collaboration of several companies“

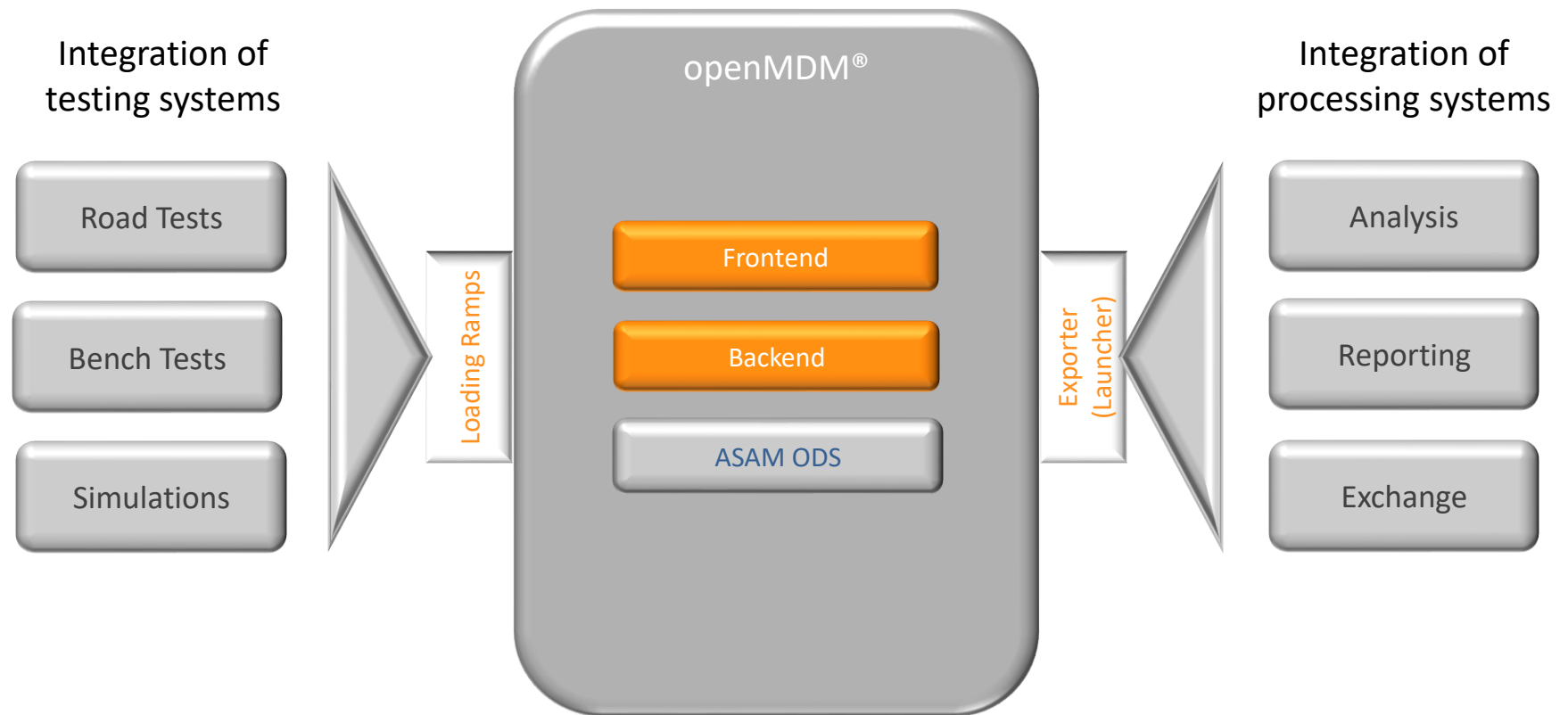
- Start: 2014
- Aim: Development of an open source framework for the efficient implementation of test data management solutions based on the **ASAM ODS** standard
- Basis: A software framework called openMDM 4, mainly driven by Audi since 2010
- Intension: Creation of a organizational framework which makes it possible to drive collaborative development and push further improvements of openMDM more intensively
- Current members:





Overview openMDM[®]

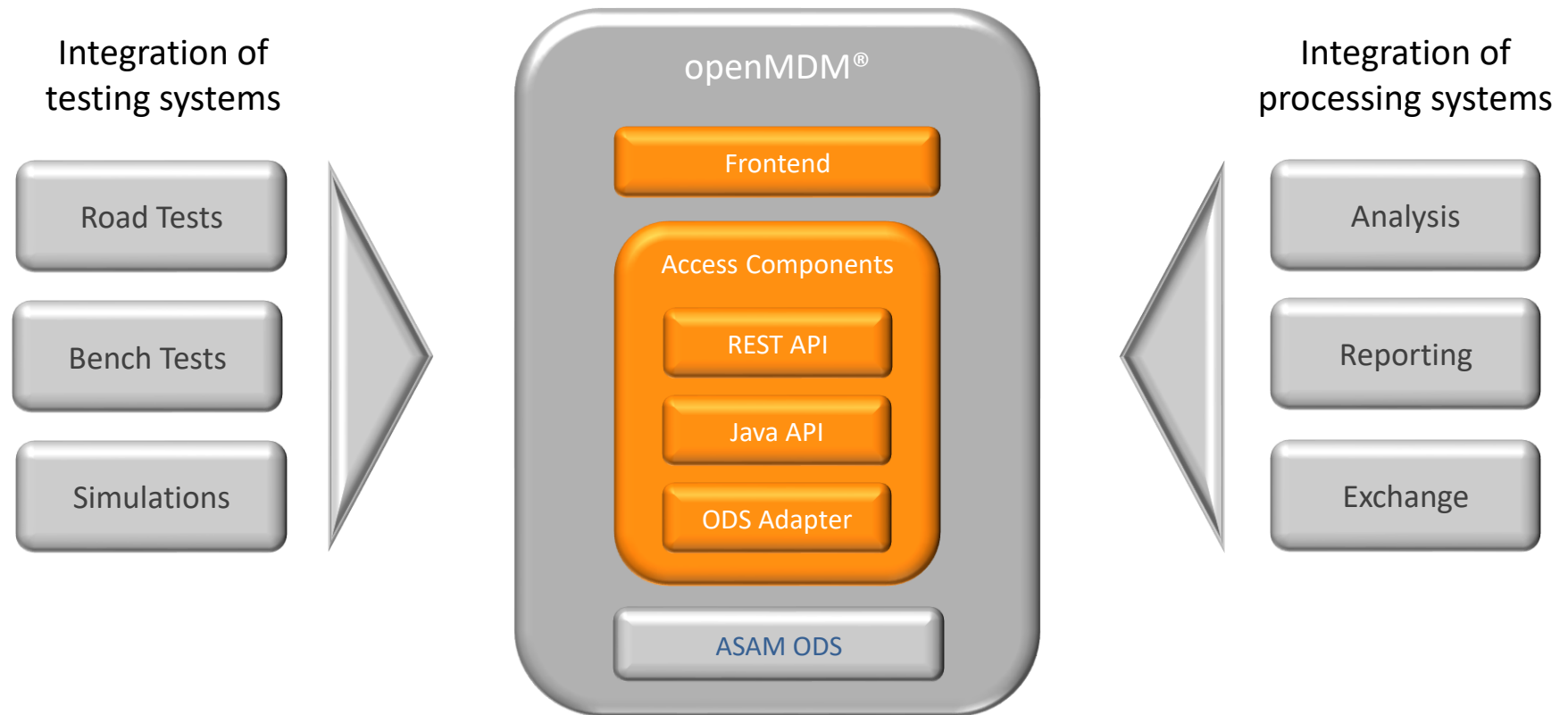
Framework for Test Data Management





Overview openMDM[®]

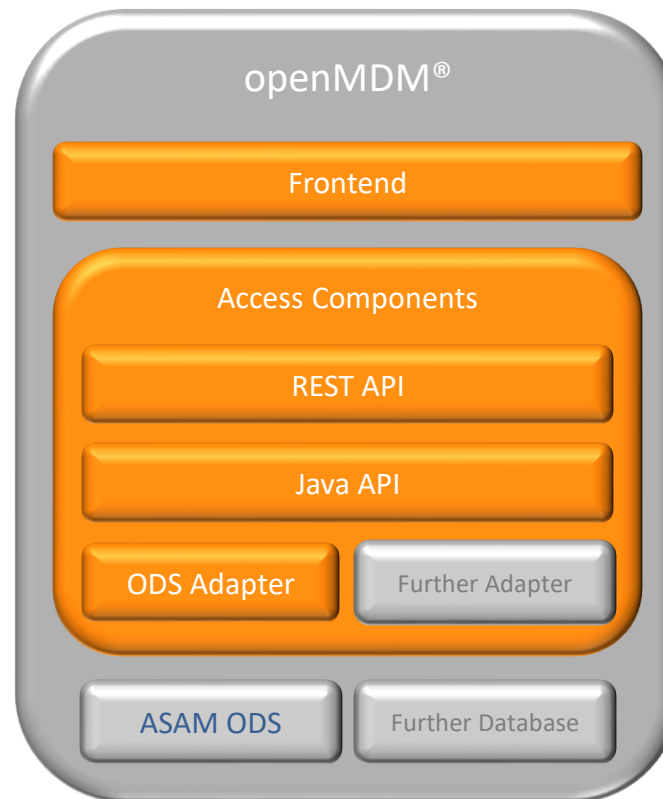
Backend Components





Overview openMDM®

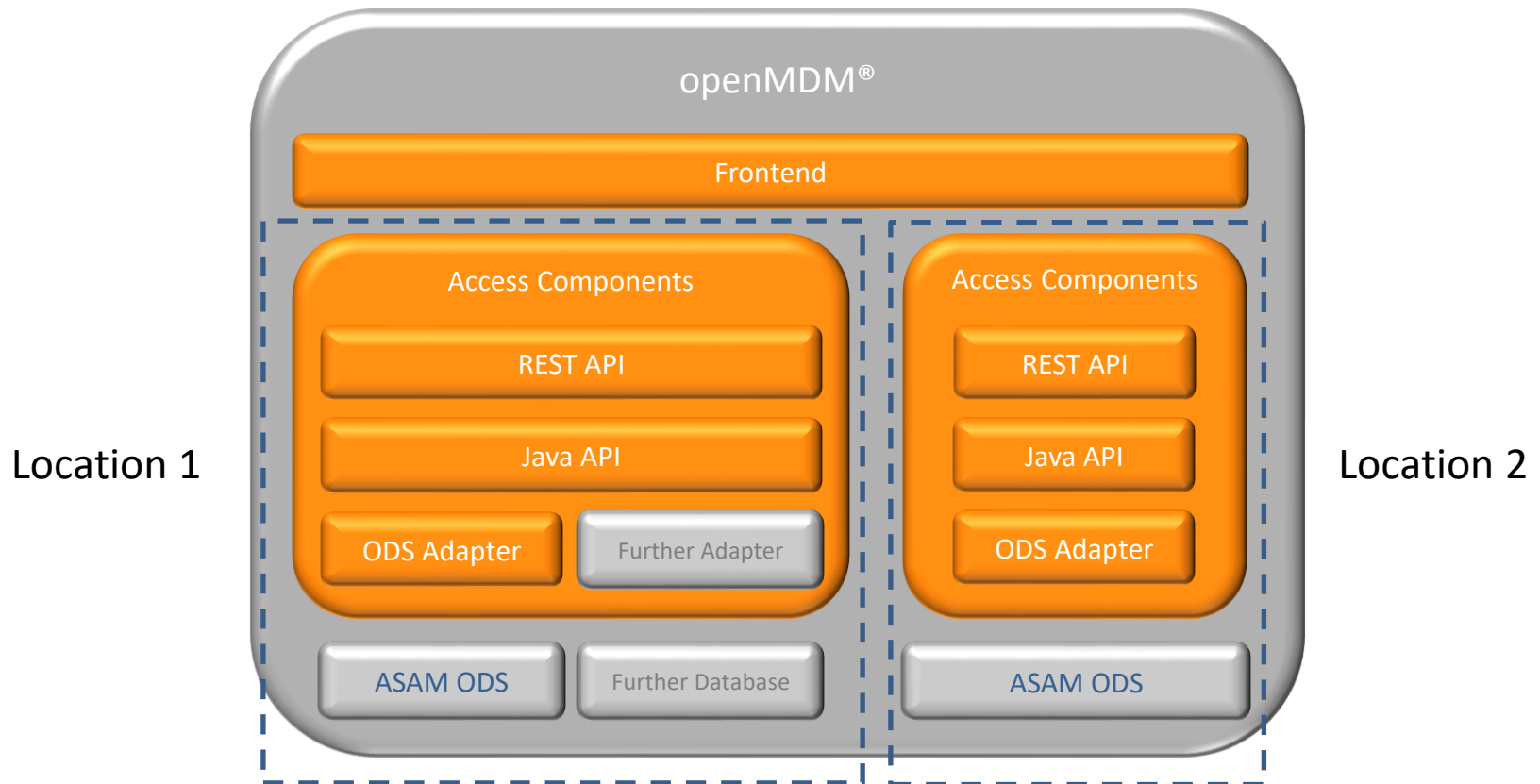
Further data stores





Overview openMDM[®]

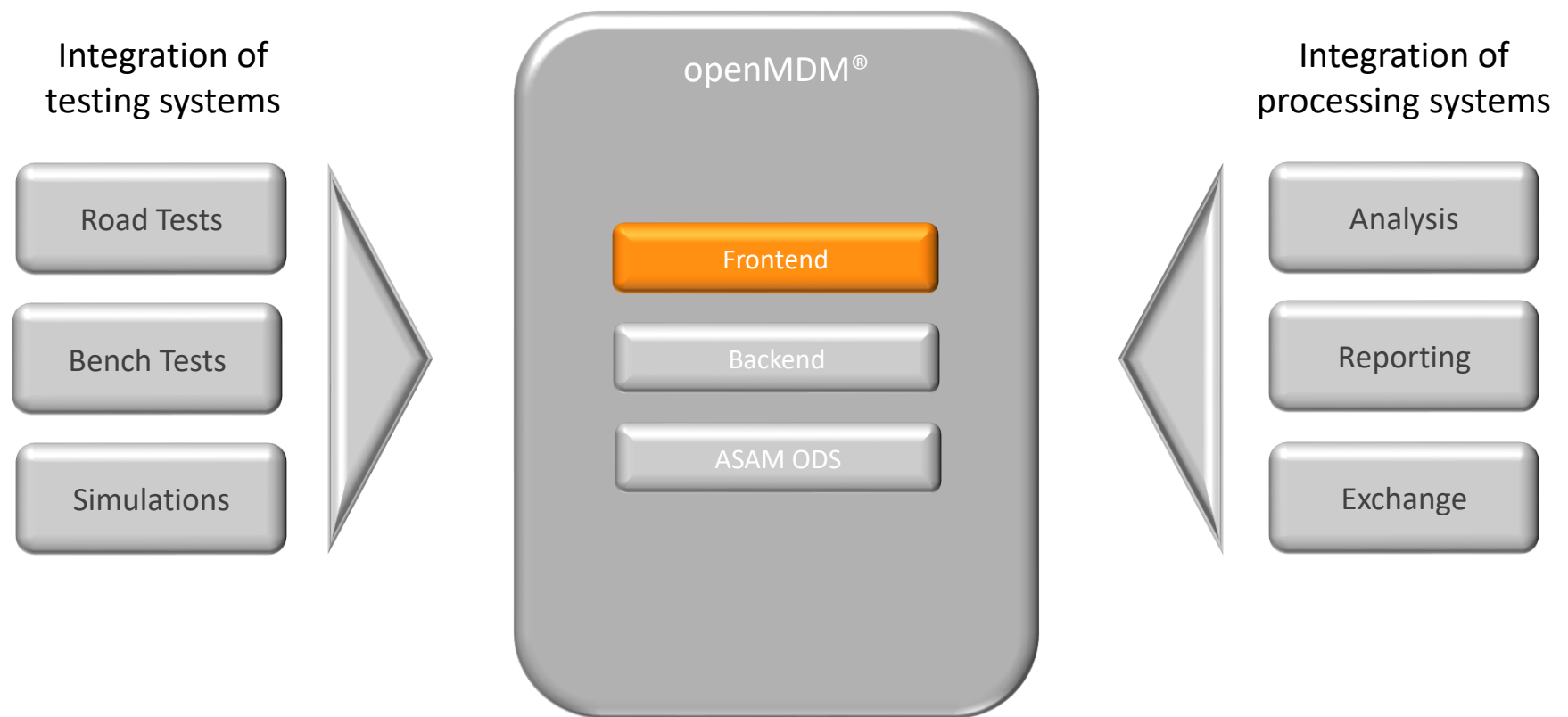
Scalability





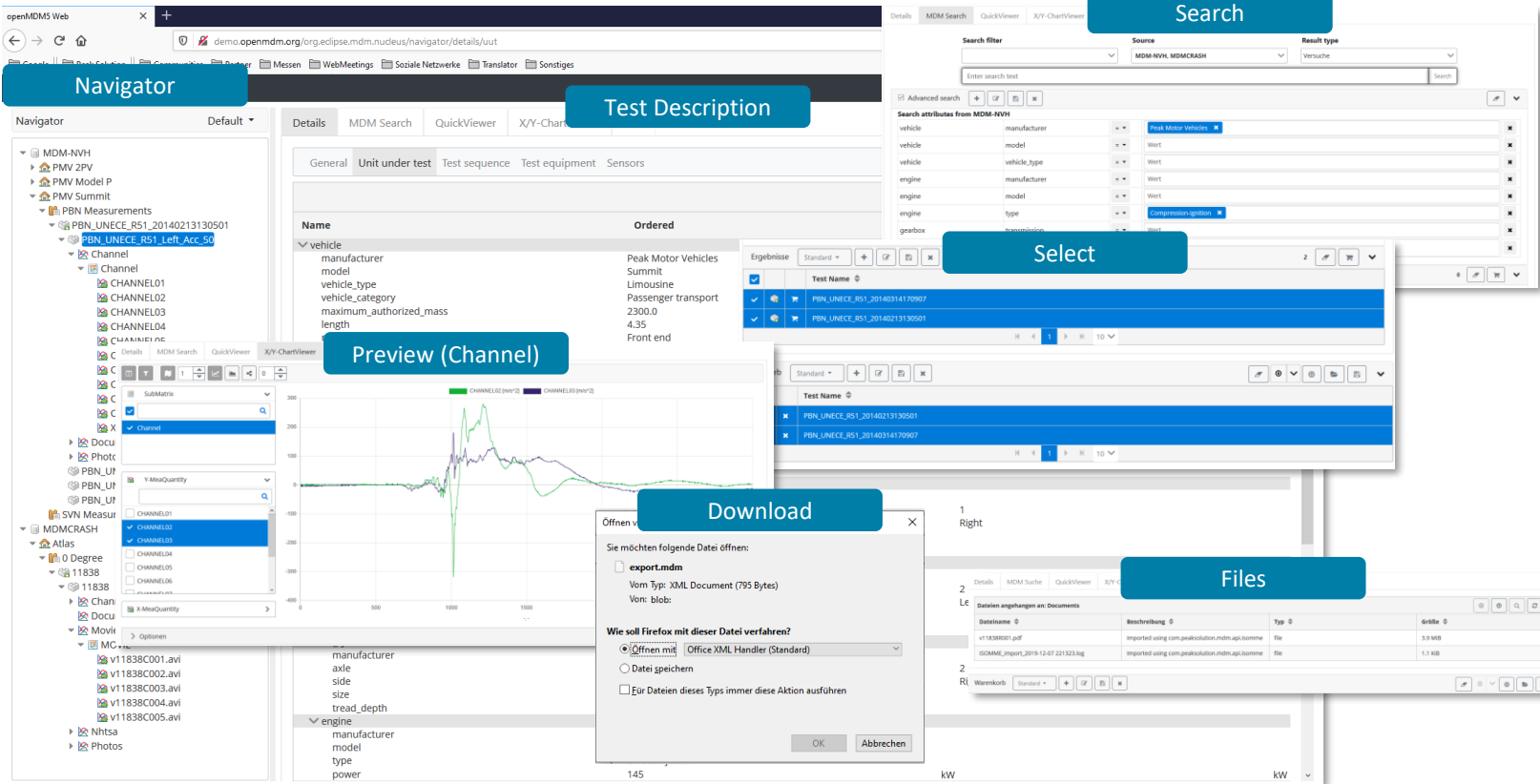
Overview openMDM[®]

Platform for Test Data Management



Overview openMDM[®]

Web Client



The screenshot displays the openMDM Web Client interface with several callout boxes highlighting key features:

- Navigator:** A tree view on the left side of the interface showing the project structure, including folders like MDM-NVH, PMV 2PV, and PBN Measurements.
- Search:** A search filter panel on the right side, allowing users to search for test results. It includes a search filter, source selection, and a search input field.
- Test Description:** A panel in the center showing details for a selected test, including a table of attributes (e.g., manufacturer, model, engine) and their values.
- Preview (Channel):** A graph showing the preview of a channel, displaying a waveform plot with multiple channels (e.g., CHANNEL01, CHANNEL02).
- Download:** A dialog box for downloading files, showing options for file type (XML Document) and file size (795 Bytes).
- Files:** A file list table showing details for downloaded files, including filename, description, type, and size.

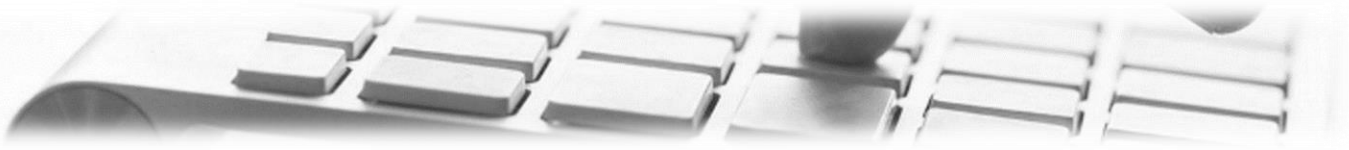


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Web Client – Demo System

<http://demo.openmdm.org/>





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Beyond proprietary solutions for Test Data Management

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



More information:

- Homepage of openMDM: <https://www.openmdm.org/>
- Project Page of openMDM: <https://projects.eclipse.org/projects/technology.mdmb1>

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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