



PEAK SOLUTION

Test & Measurement Data Management



**TOP SOLUTIONS
FOR DESIGN PROCESSES**



Test and measurement data management – optimally organized company-wide

HOW WELL AVAILABLE ARE YOUR MEASUREMENT DATA?

Experiments, tests and the systematic evaluation of measurement data are fundamental for development and quality assurance processes in companies. In other words: measurement data represent the capital for companies doing R&D.

Products are becoming more complex and are made with more and more variations – and in turn, the number of test cases are increasing that have to be performed in test departments, often with very specific procedures and measurement systems.

The result: rising costs and huge amounts of data that have to be recorded, collected, structured, evaluated and archived. Today, these measurement data are usually available in the proprietary output formats of the respective measurement devices, and are stored in the relevant departments, individually and on a file basis.

The consequence: a lack of transparency and traceability. Other departments are not able to build on the work of their colleagues. It is not uncommon for the same tests to be performed several times, in different projects and departments.

What is the level of maturity in your company with regard to test and measurement data management?

- Do measurement data exist on a file basis and usually in proprietary formats?
- Do you have simple and unhindered access to all measurement results, across departments?
- Can you supply test results transparently and quickly for other companies, or could your teams cooperate with external testers and test systems?
- Will your measurement data still be accessible and fully traceable in 30 years time – for instance, for reasons of product liability?



Solutions and services from Peak Solution

DOING JUSTICE TO THE VALUE OF DATA

Test results reveal experience and know-how.
 We say: Your test and measurement data are too valuable to remain shut away in isolated applications as dead capital.

Many technical departments are perfectly organized in themselves. Recording and storage of proprietary measurement data adhere to specific established departmental rules, a perfect microcosm. Nevertheless: From a company perspective, however, isolated applications and data silos are formed.

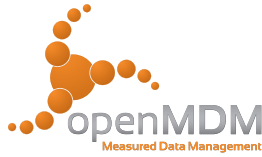
In order to make measurement data available company-wide, solutions are required that allow database-oriented access and company-wide transparency – and which at the same time satisfy the specific requirements of individual departments.

Since the establishment of Peak Solution, we have been focused on the subjects of efficiency and transparency in handling tests and measurement results. Today, we are

one of the leading specialists for test and measurement data management solutions. When we are setting up your solution, you will benefit from our many years of project experience at home and abroad. Solutions use tried-and-tested software modules and best practices that were developed by Peak Solution for leading companies from branches such as mechanical engineering or the automotive industry.

You do a lot of testing? Then you should put us to the test as well. Find out how you can increase efficiency in the field of experimenting and testing in the long-term. Talk to us about uniform solutions for the planning, description, implementation, evaluation and documentation of your tests and experiments.





Measurement data management with openMDM

INDIVIDUAL APPLICATIONS OF A STANDARD

openMDM – the tried-and-tested and measurement system-neutral platform on which Peak Solution develops. Existing software modules can be used for extensive functionalities and specific requirements of the technical departments are reliably fulfilled with individual adjustments and extensions. All measurement data are available in the future-proof standard format of the database.

With openMDM, you benefit from an open solution that test engineers from many international companies have developed through their daily routine work using the industry standard. Peak Solution is an active member of the developer community. Our specialists are aware of the opportunities provided by the framework. This guarantees powerful and individual solutions based on the ASAM-ODS standard.

The openMDM Framework offers:

- **Flexibility** – Measuring equipment and analysis software from various vendors can be integrated quickly and easily. Function modules map specific requirements and workflows.

- **Transparency** – Measuring data and meta data are stored in a central database, so they can be used throughout the company.
- **Security** – Data are managed, backed up and archived centrally. A detailed rights administration ensures protection.
- **Process support** – Partially automated processes; from the test definition to data storage, reduce the need for tedious routine work and lower costs.

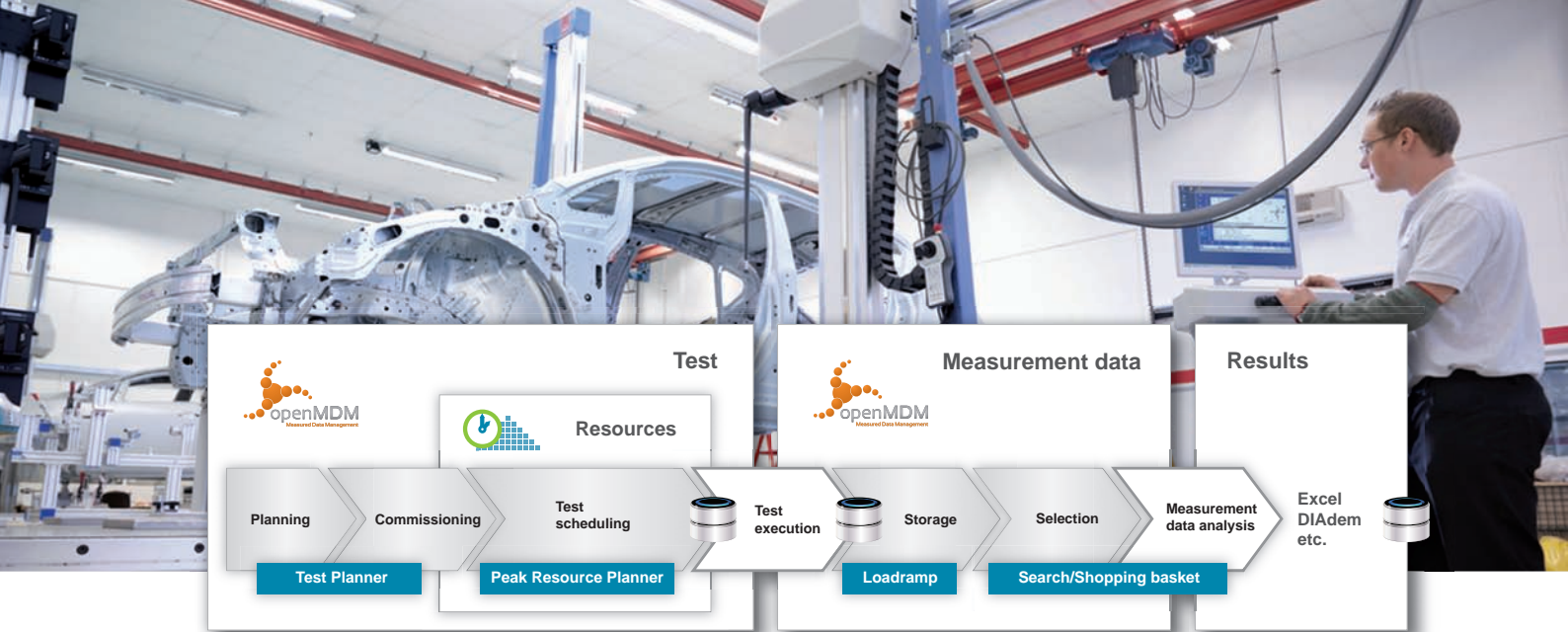
Use the flexibility of openMDM and create your solutions based on tried-and-tested best practices. The development is modular and the implementation gradual, in a way that is low-risk and takes into account the workload in the departments.



Standard format for your measurement data: ASAM ODS

The ODS (Open Data Service) data format was developed by the Association for Standardization of Automation and Measuring Systems. Any test procedures you want can be mapped in a clear and structured way. Metadata facilitate the traceability and evaluability. Developed by leading OEMs and suppliers in the automotive industry, this standard is now recognized in many industries. openMDM implements this standard.





Test and measurement data management (simplified example)

Test planning with the Peak Resource Planner

UTILIZING TEST INSTALLATIONS TO MAXIMUM CAPACITY WITHOUT CONFLICTS

Where many test series are run, the allocation of scarce test resources often leads to conflict. Based on daily routine work at our customers, we have developed a solution: Peak Resource Planner (PRP).

The administration of test samples, measuring equipment and devices, setting up test assemblies and assigning employees – all this needs to be clarified in daily test planning. The Peak Resource Planner enables the efficient capacity utilization of test resources and effectively avoids multiple assignments.

The advantages of the Peak Resource Planner:

- **Process support** – Freely-definable test templates facilitate the allocation and description of new tests and the required resources.
- **Transparency** – different depictions present engineers and planners with a seamless view of the planning, capacity utilization of test benches or the availability of special test equipment.
- **Flexibility** – For each test type you can specify what resources are to be used as the basis for planning. This allows flexible planning with optimal capacity utilization of central test installations and particularly expensive equipment.
- **Security** – Test descriptions and test planning are managed centrally. Access is protected via a role and rights administration.





Services for the management of test and measurement data

PROJECTS THAT MAKE SENSE

A system for test and measurement data management (VMM) is a necessary step towards more efficiency and transparency when dealing with tests and measurement results. You can reduce risks and costs when initiating projects by cooperating with an experienced specialist.

Only a solution that is embedded into the IT landscape of your company, and whose configuration ultimately supports work processes in technical departments, is able to provide the expected benefits. Make use of our specialists and their knowledge of methods in the concept phase, minimize implementation times thanks to our many years of experience with VMM-/MDM projects.

▪ **Conception**

Unclear, vague requirements are typical risks in IT projects. Using tried-and-tested methods of Requirements Engineering, we compile with you requirement and system specifications that offer a clear orientation in the project. Technical and organizational particularities from individual departments can be catered for, as well as the desire to establish comprehensive workflows and resources that can be shared.

▪ **Project management**

Success, compliance with schedules and budget – all this is decided in the project management. VMM projects have their peculiarities – make use of our experience and methodical competence.

▪ **Implementation**

When properly adjusted, a VMM-/MDM system can provide optimal benefits. We can configure and implement your system in accordance with your requirements.

▪ **Support and Maintenance**

Making available updates and upgrades is standard practice for us, along with customer-specific support.

Have a talk with us, together we can work out the performance and service package appropriate for your company.





Top solutions made by Peak Solution

THREE AREAS, ONE PASSION

Since 2005, Peak Solution has been providing support to both small and medium, as well as large sized internationally active companies in the planning, implementation and maintenance of sophisticated solutions in the field of test and measurement data management, identity & access management and application life cycle management.

All three business divisions have in common that these involve comprehensive solutions with a large influence on processes, efficiency and results in the company. We respond to these challenges with the deployment of highly qualified employees, building up a bank of expert knowledge and setting up a process oriented and methodical mode of operation.

We are active on committees and in networks in which new solution approaches are developed for our specialist fields, and we actively expand our knowledge of the product platforms, standards and IT technologies deployed.

Our customers would be pleased to testify to the high quality of our solutions and services.

Our customers:

AUDI AG

BMW Group

CeresPower

DAF Trucks N.V.

FEV GmbH

GE Jenbacher GmbH Co. OHG

FAW-Volkswagen Automotive Co., Ltd

TATA Motors Limited

TRW Automotive GmbH

Volkswagen AG

etc.





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