

Measurement Data Management in Computer Aided Testing (CAT)

End-to-end solution from one source

You face the challenge to cope with the rapidly growing data volumes in CAT: You want a simple overview of your data measured. You have to find the required data as quickly as possible. In addition, it should still be possible to use the measurement data in five years, even if the next but one generation of the measuring program cannot read the currently used proprietary data format anymore.

The solution: Implement a documented, central storage of your measurement and experimental data. Atos supports you in designing and implementing a uniform management of your data - from the analysis of data flows, processes and data objects, the development of software tools and database solutions to the implementation and operation of your data management solution. Atos offers completely installed and configured appliances for measurement data management that facilitates quick access.

What we can do for you

Consulting

- Analyzing existing processes and dataflows
- Analyzing existing data management tools
- Presenting possibilities for optimizing your processes and handling data
- Writing specifications
- Developing pilot schemes and implementation scenarios
- Consulting to help you find suitable data management solutions

Software development

- Solutions based on international standards and standard tools
- Developing and supporting individual solutions
- Upgrading and updating existing data management solutions
- Accessing data pools with modern front ends (Web GUI, client/server, gRPC)
- Tools that enrich your experimental and measuring data with describing information
- Interfaces between databases
- Converter software for different data formats
- Tools for process automation

ASAM ODS consulting and integration

- Consulting during the implementation of ASAM ODS standards
- ASAM ODS compliant data modelling
- Integration of ASAM ODS solutions into existing environments
- Integration of existing databases in ASAM ODS environments
- Solutions based on the openMDM framework

Database migration

- Migration of data between different databases
- Migration of and to ASAM ODS compliant databases
- Migration of existing ASAM ODS databases to newer ASAM ODS standards

Operation

- Operating data management applications
- Operating ASAM ODS servers
- Operating databases
- Operating server components
- Performance analysis and tuning

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Our competences

- Comprehensive CAT process knowledge
- Specialized software consulting teams for CAT requirements
- Profound ASAM ODS and openMDM expert knowledge
- Sophisticated know-how about Oracle databases
- Many years of experience in operating CAE and CAT environments

Your benefit

- Independent access to your measurement data
- Structured planning and execution of your measurement
- Future-proof solution by standardized processes, data formats and documentations
- Efficiency increases by automation
- Tailor-made solution for your individual processes

References

For the leading Germany luxury car manufacturer Atos is responsible for the full design / plan / build / run of the CAT IT environment. This includes a pro-active management not only of storage and database infrastructure systems but also in-depth integration of specialized test-rig and measurement hardware and hundreds of ISV and in-house applications. Furthermore, Atos provides the Digital Workplace for the engineers.

Tailor-made software development assures reoccurring tasks are automated and GUIs provide an easy to use end-user interface. To assure the highest level of optimization Atos experts on-site help to build openMDM / ASAM based solutions for streamlined and future proof measurement data management.

About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of over € 11 billion. European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos operates under the brands Atos and Atos|Syntel. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

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