

Success Stories

We are convinced of the value of our products and consulting services. But nothing speaks stronger than a positive customer testimony.

Volvo Cars

Volvo Cars Corporation (VCC)

More Drive for Volvo Automotive Software

Volvo Cars Corporation (VCC) is one of the most well-known and respected car brands in the world. The company has earned quite a reputation for providing the latest in technology and safety to global customers. In the VCC development center on the outskirts of Gothenburg, Sweden, a staff of thousands of engineers create technology for next-generation passenger cars. The focus of Volvo Cars R&D activities, regardless of whether they apply to electrical, combustion or hybrid systems, is increasing the performance of powertrain components (engine, transmission, gearbox). Hence, the control software for powertrain applications plays a vital role.

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Mercedes-Benz

Research & Development North America, Inc.

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Enhanced Safety and Efficiency for the Software Design Process at Mercedes-Benz

Mercedes-Benz Research & Development North America (MBRDNA) recently carried out a large software model refactoring project with the help of MES M-XRAY® (MXRAY), aiming to reduce and manage complexity in one of its E-Drive software models. The reviewed model is responsible for functions such as torque and traction, and it had grown significantly as further requirements and additional stakeholders, including developers and testers, were added. MBRDNA's main objective was to improve the testability and understandability of the model by reducing both subsystem-level complexity and complexity at the level of the entire integrated software model. This presentation will look at the steps MBRDNA took and how, as a result, the team has been able to greatly improve the overall readability, testability, navigation, and maintainability of its software modules.

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Valeo Siemens eAutomotive

Achieving 100% Quality Faster with the MES Test Center

The control software in Valeo Siemens eAutomotive's electric drive systems will be built on the basis of functional models. The models are designed and tested by experts in concrete application and software development. The software that is then used in vehicles will be generated from these software models via an automated process. In the past, MES specialists have also supported Siemens eCar in building its development process. Additionally, Siemens eCar makes thorough use of the MES tools for quality assurance - the MES Test Manager and the MES Model Examiner for static tests. With the help of MES tools, Siemens eCar and the new joint venture are implementing the safety standard ISO 26262 for the development of E/E components in the automotive sector.

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Thales Deutschland

A Roadmap for Model-based Design of Railway Systems

Thales Deutschland – Transportation Systems Division contracted MES to boost model-based system development of rail signalling and safety equipment. Thales is one of the world's leading suppliers of cutting-edge railway signalling solutions for mainline and urban rail, which guarantee the safe, reliable, convenient and efficient transport of passengers and freight. The Thales Deutschland – Transportation Systems Division includes the development centre for innovative solutions for railway signalling and safety systems.

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Renault

Renault Uses MES Software to Boost Efficiency in Model-based Development

Renault is one of the world's largest car manufacturers and a leading player in the emerging technology field of e-mobility. In Renault's LARDY and GUYANCOURT development centers on the outskirts of Paris, a staff of over 14,000 engineers is engaged in creating technology concepts for the next generation of passenger cars. A significant focus of Renault's R&D activities lies on safety-critical vehicle functionalities, including tracking control, motor management, and battery management systems.

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Volkswagen

MES Model Examiner with Excel Adapter Gives Consistent Data Formats and Efficient System Integration

Embedded systems in vehicles are becoming increasingly complex. Individual components are developed in a distributed manner and subsequently integrated into a functional overall system by the OEM or first-tier supplier. This distributed process makes the need for consistent data formats and interfaces essential. The application of MES Model Examiner[®] with the MS Excel[®] Adapter allows inconsistencies to be detected and rectified automatically, resulting in shorter development cycles and making the embedded system less susceptible to error.

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