

## QTronic Joins MathWorks Connections Program as Product Partner

Virtual integration of control software with the MATLAB and Simulink tool chains

**Berlin, Germany, September 12, 2011:** QTronic, a leading supplier of simulation-based tools for automotive software development, today announced it has joined the MathWorks Connections Program. This partnership is based on QTronic's Silver, a tool used by developers to run and validate automotive control software in closed loop with a simulated vehicle on Windows PC.

The Silver integration connects the Simulink development tool chain to automotive standards, such as ASAP2/A2L, MDF, CAN, and XCP, and tools used by automotive software engineers today. The comprehensive virtualisation enabled this way increases the cost/benefit ratio of model-based development, and streamlines integration and testing activities for automotive control software developers.

The MathWorks Connections Program is available to third-party organizations that develop and distribute complementary, commercially available products and services based on MATLAB and Simulink. These offerings address technical needs across a wide range of applications and industries with software and hardware products that extend the usage of MATLAB and Simulink or offer training, consulting and system integration services based on MathWorks tools.

"We are very pleased to be a part of the MathWorks Connections Program," said Dr. Andreas Junghanns, managing director of QTronic. "This is an opportunity that will enable us to align ourselves with the industry's leading technical computing software developer and we look forward to engaging in the many opportunities available to us through this partnership. It will allow us to further strengthen the link between the MATLAB and Simulink product families and the QTronic tools for virtual integration and test of automotive control software."

Silver is a tool used by automotive software engineers to integrate and test control software virtually using simulation on Windows PCs. Silver provides built-in support for automotive standards such as A2L, MDF, CAN, and XCP to perform co-execution of control software and of vehicle simulation models. The benefit of such a SiL setup for developing control software is

- extremely fast development cycles: detect problems early
- excellent debugging and test support e. g. with Microsoft Visual Studio
- parallelize the development process: A Silver configuration can easily be duplicated at low cost.
- sharing results without sharing IP: Silver runs compiled modules (Windows DLLs), no disclosure of sources required.

### About MathWorks

MathWorks is the leading developer of mathematical computing software. MATLAB, the language of technical computing, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a graphical environment for simulation and Model-Based Design of multidomain dynamic and embedded systems. Engineers and scientists worldwide rely on these product families to accelerate the pace of discovery, innovation, and development in automotive, aerospace, electronics, financial services, biotech-pharmaceutical, and other industries. MathWorks products are also fundamental teaching and research tools in the world's universities and learning institutions. Founded in 1984, MathWorks employs more than 2200 people in 15 countries, with headquarters in Natick, Massachusetts, USA. For additional information, visit [www.mathworks.com](http://www.mathworks.com).

### About QTronic GmbH

QTronic provides engineering software and services as well as consulting for model-based development. Engineers at Mercedes, AMG, BMW, IAV, Continental, ZF and others use QTronic tools Silver and TestWeaver for automotive software development. The main idea behind QTronic is to shift development tasks from HiL test rigs and real vehicle prototypes to Windows PC, leveraging recent advances of simulation technology. If done right, this speeds up development because testing and debugging is faster in a PC environment, and offers new possibilities to parallelize and distribute development projects across teams and organisations. For additional information, visit [www.qtronic.de](http://www.qtronic.de).

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