



**Press Contacts:**

Sriya Kodial  
MathWorks  
(508) 647-2030  
[sriya.kodial@mathworks.com](mailto:sriya.kodial@mathworks.com)

Lisa Silver  
Text 100 Public Relations  
(617) 723-1044  
[mathworks@text100.com](mailto:mathworks@text100.com)

**MATHWORKS SIMULINK PLC CODER CERTIFIED BY  
TÜV SÜD**

**Certification Helps Engineers Develop High-Integrity Control System Software in  
Compliance with IEC 61508 and IEC 61511**

**NATICK, Mass. – June 28, 2010** – [MathWorks](http://mathworks.com) today announced the TÜV SÜD certification of [Simulink PLC Coder](#). TÜV SÜD assessed Simulink PLC Coder as suitable for development processes that must comply with IEC 61508-3 and its process industry adaptation, IEC 61511-1. As a result, engineers developing high-integrity control systems can streamline the certification of their industrial controllers programmed using IEC 61131-3 structured text generated by Simulink PLC Coder.

The TÜV SÜD certification is based on an audit of the software development, quality engineering, and customer bug reporting processes used by MathWorks in the development of Simulink PLC Coder. The certification requires that engineers using Simulink PLC Coder follow a verification and validation workflow that aids detection and prevention of potential errors in both generated structured text and third-party integrated development environment (IDE) that compiles the structured text. By including the full implementation tool chain, this workflow is able to support a wide variety of industrial controllers and is not locked into a particular PLC or PAC device. The workflow is documented and available with the MathWorks [IEC Certification Kit](#), which also includes the TÜV SÜD certificate and certification report.

“Simulink PLC Coder brings greater development efficiencies and now reduces certification costs for IEC 61508 and IEC 61151 projects,” said Tom Erkkinen, embedded application

manager at MathWorks. “This certification adds to our growing list of products that can be certified or qualified to popular industry standards, all of which enable engineers to leverage the benefits of Model-Based Design for their high-integrity applications.”

### **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).

###

*MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See [www.mathworks.com/trademarks](http://www.mathworks.com/trademarks) for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.*