



Press Contacts:

Sriya Kodial
MathWorks, Inc.
(508) 647-2030
sriya.kodial@mathworks.com

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

**MATHWORKS OFFERS TAILORED SERVICES TO HELP MEET DO-178
STANDARDS WITH MODEL-BASED DESIGN**

Launches Advisory Service for Developing High-Integrity Systems

NATICK, Mass. - (May 10, 2012) - [MathWorks](#) today announced the launch of the [DO 178 Process Deployment Advisory Service](#), dedicated [Model-Based Design](#) consulting services for DO-178 projects. Now aerospace engineers can gain increased confidence that high-integrity applications developed using [MATLAB](#) and [Simulink](#) comply with DO standards such as DO-178B, DO-178C, and DO-331, the Model-Based Development and Verification Supplement to DO-178C and DO-278A.

The DO-178 Process Deployment Advisory Service educates engineers on the standard, identifies gaps in the current processes, provides a road map to a more optimized process framework using Model-Based Design, and assists in deploying that road map. MathWorks consultants walk through the following steps as part of the Advisory Service:

1. Familiarization with Existing Processes and Tools:

Review the current flight software development process, tools, application, required safety levels (A-E), and planning documents including tool qualification.

2. Gap Analysis:

Perform a gap analysis based on the knowledge gained in step 1 to identify current challenges and process efficiency improvements, training, and changes that may be necessary for a DO-178 process framework using Model-Based Design. This includes developing an actionable road map with a phased approach to achieve the recommended improvements.

3. Targeted Instruction:

Provide instructions to fill the gaps identified in step 2 and describe DO-178 fundamentals and the process framework for using Model-Based Design. Examine tools used to automate key development and verification activities based on needs, generally including model checking, code generation, code inspection, and report generation.

4. Hands-On Deployment Support:

Apply the knowledge gained in step 3 to a specific project. Consultants can assist with a wide range of areas including modeling, simulation, code generation, verification, validation, and certification. Certification and compliance assistance includes preparing the tool chain and generating or creating documents such as the PSAC and DO-178 tool qualification artifacts using the DO Qualification Kit.

The [DO Qualification Kit](#) from MathWorks aids tool qualification for DO-178 and related standards. The Kit provides documentation, test cases, and procedures to qualify Simulink or [Polyspace code verification products](#) for projects based on the DO-178 standard.

The DO-178 Process Deployment Advisory Service complements the [ISO 26262 Process Deployment Advisory Service](#) recently introduced for high-integrity automotive system development.

For more information on Model-Based Design for DO-178 support, watch this MathWorks webinar: [Model-Based Design for DO-178 Using Tool Qualification Kits](#).

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 2400 people in 15 countries, with headquarters in Natick, Massachusetts, USA. For additional information, visit www.mathworks.com.

###

MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See 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.