

# Latest Features in DO Qualification Kit (for DO-178B)

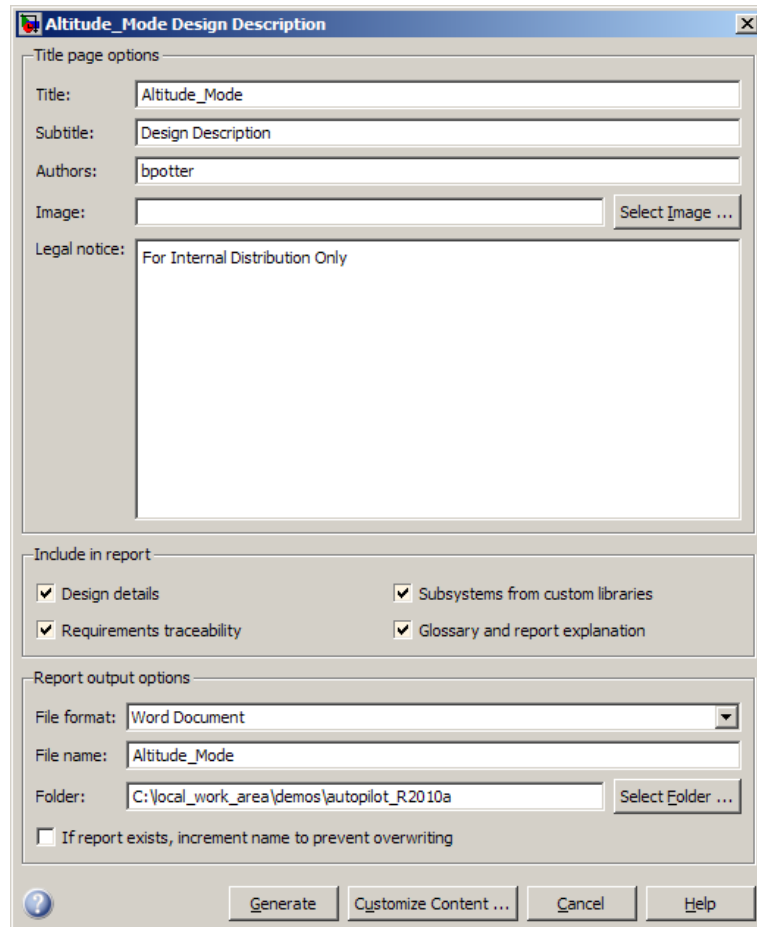
September 2010

**R2010b**

# Qualifiable System Design Description

## Generate System Design Description (SDD) report with Simulink Report Generator

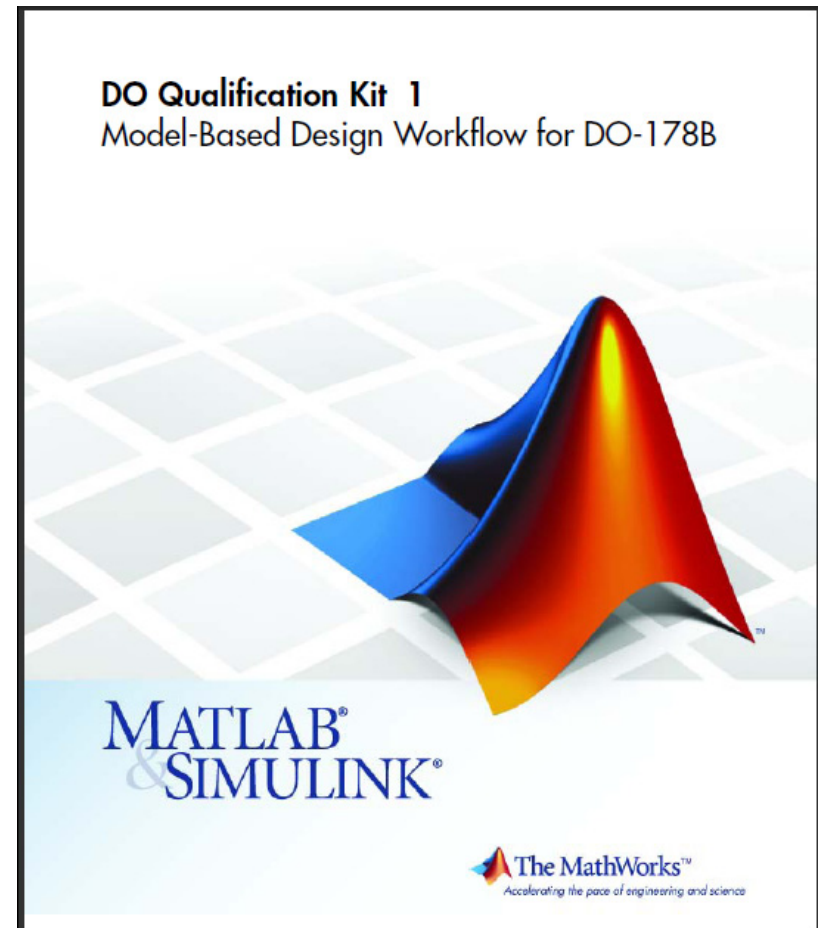
- With the SDD report, users can:
  - Review a system design without having the model open
  - Archive the system design in a format independent of the modeling environment
- GUI settings for reports have been simplified.
- SSD is qualifiable for DO-178 and DO-254.



# DO-178B Workflow Document

**Document summarizes objectives that must be met for each of the life-cycle stages and provides recommendations on meeting the objectives using Model-Based Design**

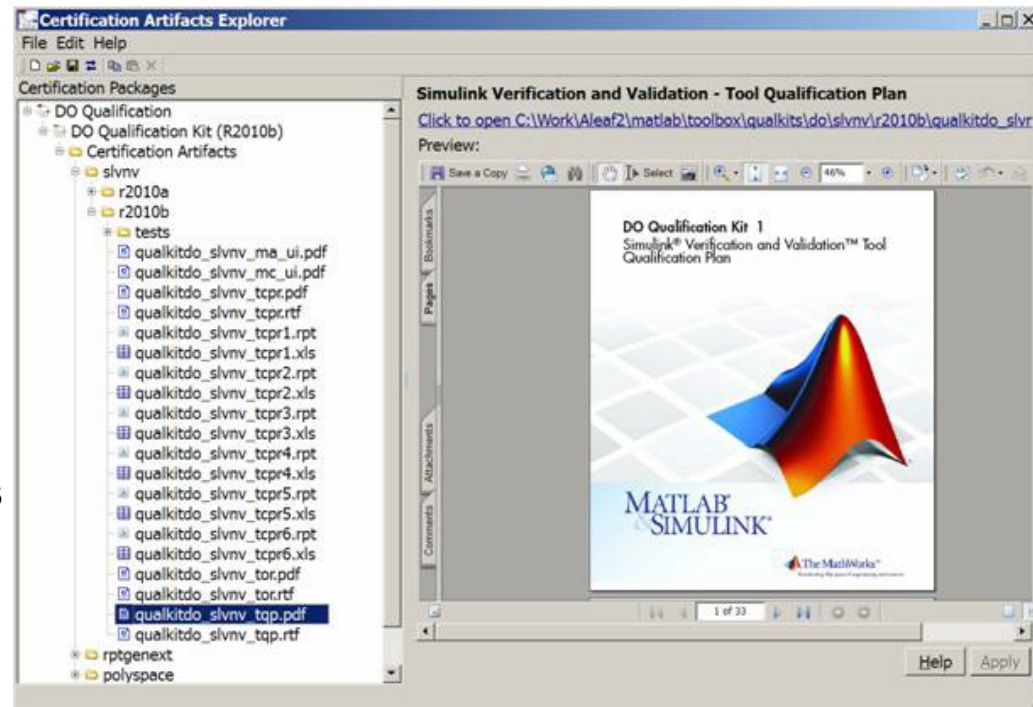
- Recommendations for applying Model-Based Design related tools to a DO-178B process
- Details for satisfying DO-178B objectives
- Applicability of using qualified tools in the DO-178B process



# Certification Artifacts Explorer

## Explore DO-178B and DO-254 tool qualification documents

- Interface enables users to access:
  - Tool qualification documents and test cases shipping with DO Qualification Kit
  - Customized documents and artifacts of users' DO-178B and DO-254 projects
- Documents simplify usage of DO Qualification Kit and customization of certification artifacts.

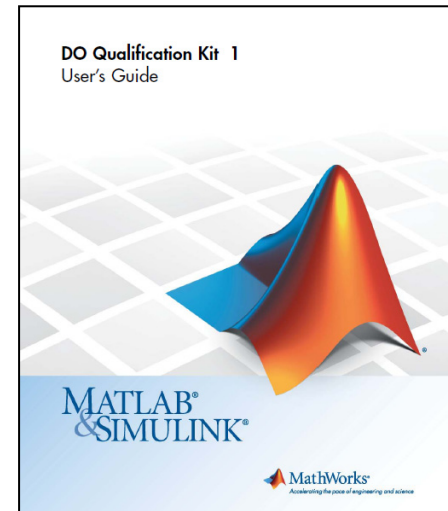


Preview/Edit Pane

# DO-254 Usage Guidance

## Enable Model-Based Design for FPGA and ASIC designs for high-integrity systems

- New description for applying DO Qualification Kit to DO-254, Design Assurance Guidance for Airborne Electronic Hardware



You can use the DO Qualification Kit product to qualify verification tools for projects that follow DO-254. The process for tool qualification is described in Section 11.4 of DO-254. The following verification tool capabilities are applicable to DO-254 projects:

- Simulink® Verification and Validation™ — DO-178B checks
- Simulink Verification and Validation — model coverage
- SystemTest™ — Limit Check element
- Simulink® Report Generator™ — System Design Description report