

DO Qualification Kit Release Notes

How to Contact The MathWorks



www.mathworks.com Web
comp.soft-sys.matlab Newsgroup
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suggest@mathworks.com Product enhancement suggestions
bugs@mathworks.com Bug reports
doc@mathworks.com Documentation error reports
service@mathworks.com Order status, license renewals, passcodes
info@mathworks.com Sales, pricing, and general information



508-647-7000 (Phone)



508-647-7001 (Fax)



The MathWorks, Inc.
3 Apple Hill Drive
Natick, MA 01760-2098

For contact information about worldwide offices, see the MathWorks Web site.

DO Qualification Kit Release Notes

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Summary by Version

This table provides quick access to what's new in each version. For clarification, see "Using Release Notes" on page 1.

Version (Release)	New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Latest Version V1.1 (R2009b+)	Yes Details	No	Bug Reports Includes fixes	Printable Release Notes: PDF Current product documentation
V1.0 (R2009a+)	Yes Details	Not applicable	Bug Reports	No

Using Release Notes

Use release notes when upgrading to a newer version to learn about:

- New features
- Changes
- Potential impact on your existing files and practices

Review the release notes for other MathWorks™ products required for this product (for example, MATLAB® or Simulink®). Determine if enhancements, bugs, or compatibility considerations in other products impact you.

If you are upgrading from a software version other than the most recent one, review the current release notes and all interim versions. For example, when you upgrade from V1.0 to V1.2, review the release notes for V1.1 and V1.2.

What Is in the Release Notes

New Features and Changes

- New functionality

- Changes to existing functionality

Version Compatibility Considerations

When a new feature or change introduces a reported incompatibility between versions, the **Compatibility Considerations** subsection explains the impact.

Compatibility issues reported after the product release appear under Bug Reports at The MathWorks™ Web site. Bug fixes can sometimes result in incompatibilities, so review the fixed bugs in Bug Reports for any compatibility impact.

Fixed Bugs and Known Problems

The MathWorks offers a user-searchable Bug Reports database so you can view Bug Reports. The development team updates this database at release time and as more information becomes available. Bug Reports include provisions for any known workarounds or file replacements. Information is available for bugs existing in or fixed in Release 14SP2 or later. Information is not available for all bugs in earlier releases.

Access Bug Reports using your MathWorks Account.

Version 1.1 (R2009b+) DO Qualification Kit Software

This table summarizes what's new in V1.1 (R2009b+):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes Details below	No	Bug Reports Includes fixes	Printable Release Notes: PDF Current product documentation

New features and changes introduced in this version are:

- “Support for New Versions of MathWorks Products” on page 3
- “Model Coverage Support” on page 3

Support for New Versions of MathWorks Products

The DO Qualification Kit product includes documents, templates, test cases, and test procedures. You can use these artifacts when you use the following MathWorks products and capabilities in projects involving the DO-178B and related standards:

- Simulink® Verification and Validation™ Version 2.6 (R2009b): DO-178B checks and model coverage
- SystemTest™ Version 2.4 (R2009b): Limit Check element
- PolySpace® Client™ for C/C++, PolySpace® Server™ for C/C++ Version 7.1 (R2009b)

For details, see “DO Qualification Kit Components” in the DO Qualification Kit documentation.

Model Coverage Support

The DO Qualification Kit software includes documents, templates, test cases, and test procedures. You can use these artifacts and tests when you use

Simulink Verification and Validation model coverage in projects involving the DO-178B and related standards.

By qualifying the model coverage capability of the Simulink Verification and Validation product, you can claim credit for demonstrating completeness and correctness of the test cases that Simulink® Design Verifier™ generates. Use the model coverage capability instead of reviewing the Simulink Design Verifier report. You can demonstrate completeness and correctness by running the generated test cases against the model, measuring the model coverage, and reviewing the model coverage report. You can run the test cases on the executable object code and compare the actual results to the simulation results. The model coverage capability does not assess the correctness of the simulation results, only the test case coverage of the model. Therefore, you must verify that the results from the model are correct.

For details, see “DO Qualification Kit Components” in the DO Qualification Kit documentation.

Version 1.0 (R2009a+) DO Qualification Kit Software

This table summarizes what's new in V1.0 (R2009a+):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes Details below	Not applicable	Bug Reports	No

Version 1.0 of the DO Qualification Kit product includes documents, templates, test cases, and test procedures. You can use these artifacts when you use the following versions of MathWorks products and capabilities in projects involving the DO-178B and related standards:

- Simulink Verification and Validation Version 2.5 (R2009a): DO-178B checks
- SystemTest Version 2.3 (R2009a): Limit Check element
- PolySpace Client for C/C++, PolySpace Server for C/C++ Version 6.1 (R2009a)

For more information, see:

- The *DO Qualification Kit User's Guide*
- The DO Qualification Kit product page on www.mathworks.com.

Compatibility Summary for DO Qualification Kit Software

This table summarizes new features and changes that might cause incompatibilities when you upgrade from an earlier version, or when you use files on multiple versions. Details are provided in the description of the new feature or change.

Version (Release)	New Features and Changes with Version Compatibility Impact
Latest Version V1.1 (R2009b+)	None
V1.0 (R2009a+)	Not applicable