

IEC Certification 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	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+) IEC Certification 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	Printable Release Notes: PDF Current product documentation

New features and changes introduced in this version are:

- “IEC 61508 Certification of New Versions” on page 3
- “ISO 26262 Tool Qualification” on page 3
- “ISO 26262 Support” on page 4
- “Traceability Among Model Objects, Generated Code, and Model Requirements” on page 4

IEC 61508 Certification of New Versions

TÜV SÜD certified the following versions of MathWorks products according to IEC 61508:

- Real-Time Workshop® Embedded Coder™ Version 5.4 (R2009b)
- PolySpace® Client™ for C/C++ and PolySpace® Server™ for C/C++ Versions 5.1 (R2008a), 6.0 (R2008b), 7.0.1 (R2009a+), and 7.1 (R2009b)

For details, see “IEC Certification Kit Components” in the IEC Certification Kit documentation.

ISO 26262 Tool Qualification

The following versions of MathWorks products are qualified with TÜV SÜD qualification assessment according to ISO 26262:

- Real-Time Workshop Embedded Coder Versions 5.3 (R2009a) and 5.4 (R2009b)
- PolySpace Client for C/C++ and PolySpace Server for C/C++ Versions 7.0.1 (R2009a+) and 7.1 (R2009b)

For details, see “IEC Certification Kit Components” in the IEC Certification Kit documentation.

ISO 26262 Support

The IEC Certification Kit product includes qualification evidence, documents, templates, and tools for certification-related development activities. You can use these certification artifacts and tools when you use the Real-Time Workshop Embedded Coder product in projects involving the ISO 26262 standard.

For details, see “IEC Certification Kit Product Overview” in the IEC Certification Kit documentation.

Traceability Among Model Objects, Generated Code, and Model Requirements

When you use Model-Based Design and production code generation to develop application software components, you can generate a *traceability matrix*. The traceability matrix provides traceability among model objects, generated code, and model requirements. You can add comments to the generated traceability matrix. If you change the model and regenerate the traceability matrix, the software retains your comments.

For details, see “Generating a Traceability Matrix” in the IEC Certification Kit *User’s Guide*.

Limitations

The `iec.ExportTraceReport` function that you use to generate traceability matrices has the following limitations:

- The `iec.ExportTraceReport` function does not support generating a traceability matrix for referenced models. When you generate a traceability

matrix for a model that contains referenced models, the traceability matrix contains information about the Model block only. The traceability matrix does not contain information about the contents of the referenced model. If your model contains referenced models, generate a traceability matrix for the top-level model and each referenced model separately.

- The `iec.ExportTraceReport` function works with the Microsoft® Windows® platform only.

Version 1.0 (R2009a+) IEC Certification 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 IEC Certification Kit software includes documents, certificates, and templates. You can use these certification artifacts when you use the following MathWorks products in projects involving the IEC 61508 standard:

- Real-Time Workshop Embedded Coder
- PolySpace® Code Verification products (for C)

For more information, see:

- *IEC Certification Kit User's Guide*
- The IEC Certification Kit product page on www.mathworks.com.

Compatibility Summary for IEC Certification 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