

Simulink Verification and Validation Product Update

September 2017



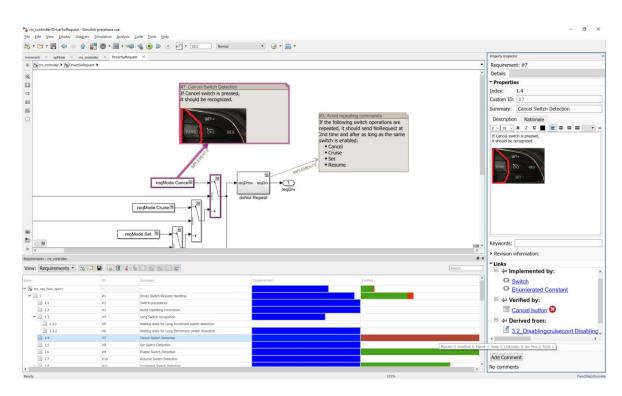


R2017b

New! Simulink Requirements

Work with requirements and design together

Author, edit, and organize requirements



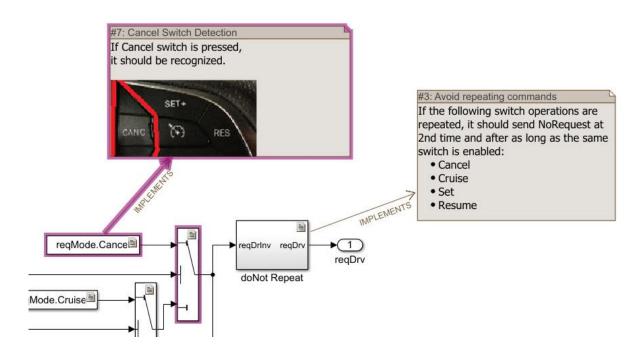
Requirements Perspective





New! Simulink Requirements Work with requirements and design together

- Author, edit, and organize requirements
- View and link requirements within the Simulink graphical editor



Requirement Badges and Annotations on Diagram

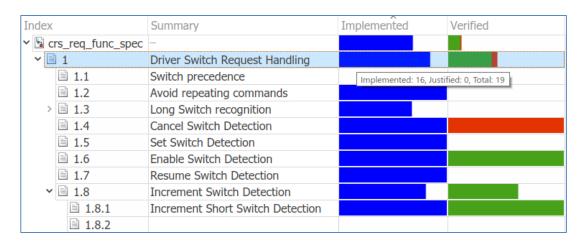


R2017b

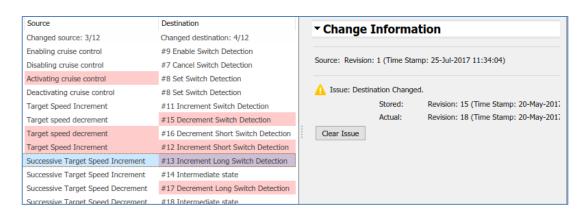
New! Simulink Requirements

Work with requirements and design together

- Author, edit, and organize requirements
- View and link requirements within the Simulink graphical editor
- Track status and manage requirement changes



Implementation and Verification Status



Notification of Requirement Changes

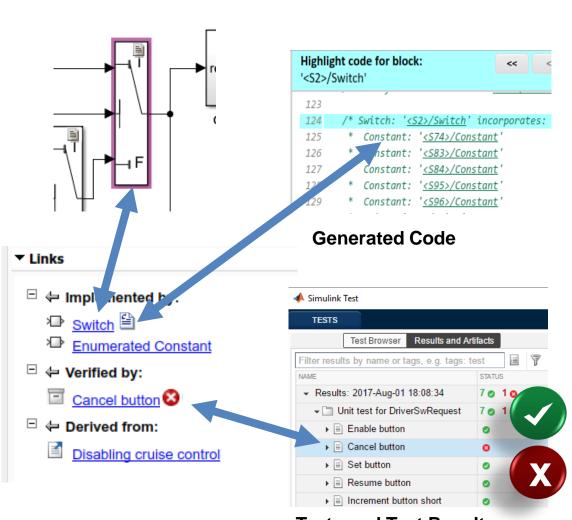


New! Simulink Requirements Work with requirements and design

R2017b

Work with requirements and design together

- Author, edit, and organize requirements
- View and link requirements within the Simulink graphical editor
- Track status and manage requirement changes
- Trace requirements to models, generated code, and test cases

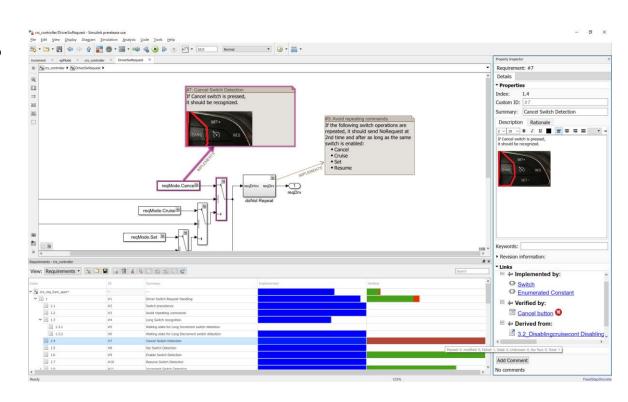






New! Simulink Requirements Work with requirements and design together

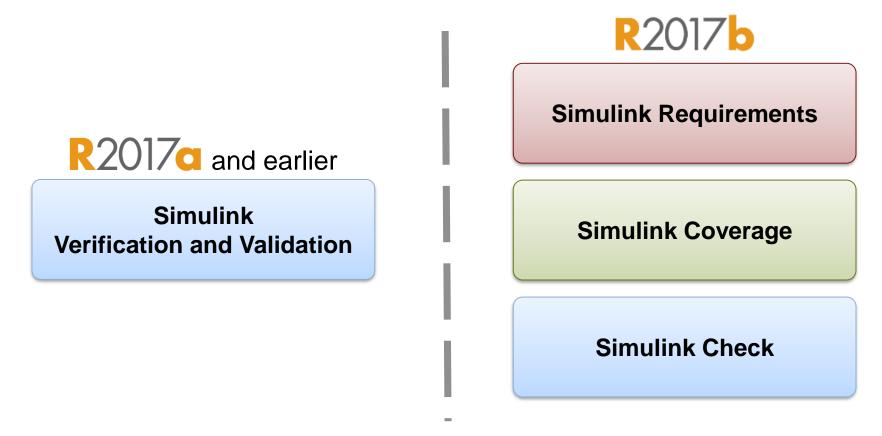
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Requirements Perspective



New Verification and Validation Products



- Simulink Requirements requirements authoring, editing, trace, management
- Simulink Coverage model and code coverage analysis
- Simulink Check static checking, metrics, clone detection

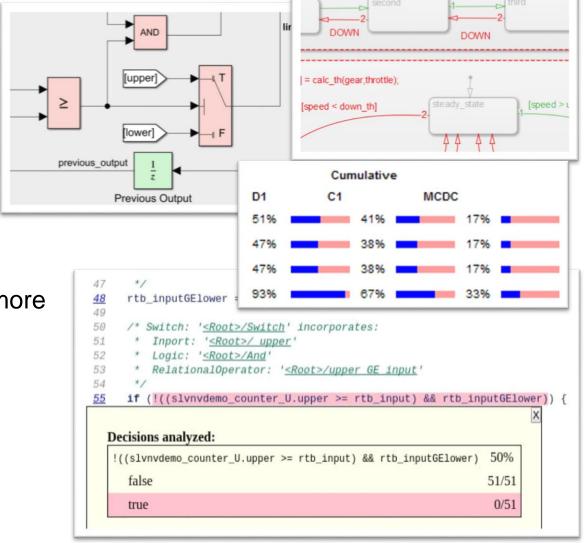


Simulink Coverage

R2017b

Measure test coverage in models and generated code

- Model coverage analysis
 - Including C/C++ S-functions
- Generated code coverage analysis
 - C/C++ generated by Embedded Coder
- Comprehensive coverage metrics
 - Decision, condition, MC/DC, relational boundary, signal range, function call, and more
- Model highlighting and coverage reports
 - Locate where test coverage is missing
- Tool qualification support
 - DO Qualification and IEC Certification Kits



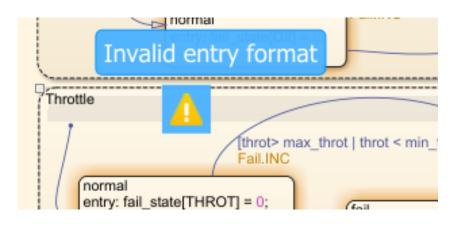


Simulink Check

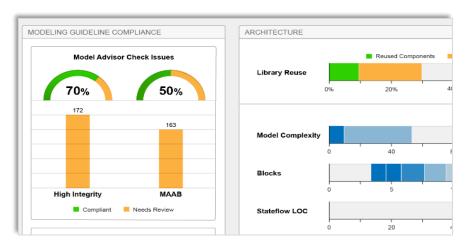
R2017b

Verify compliance with guidelines and standards

- Compliance checking for industry and security standards
 - DO-178, ISO 26262, IEC 61508, IEC 62304, MAAB, MISRA
 - Security: CERT C, CWE, ISO/IEC TS 17961
- Edit-time checking to fix violations earlier
- Metrics dashboard to assess design quality
- Refactoring of model clones and model transformations
- Tool qualification support with DO Qualification and IEC Certification Kits



Edit-Time Checks



Metrics Dashboard



Flexibility to Align Products Based on Usage





- More value by aligning products with usage
- Easier to understand focus of products



License Information for Existing Users

Effective as of R2017b

- Licenses of Simulink Verification and Validation automatically updated at no initial cost with:
 - Simulink Requirements
 - Simulink Coverage
 - Simulink Check
- New products each require MATLAB and Simulink
 - No dependencies on each other
- Simulink Design Verifier requires Simulink Check and Simulink Coverage
- Simulink Check provides license key for usage of R2017a or earlier releases



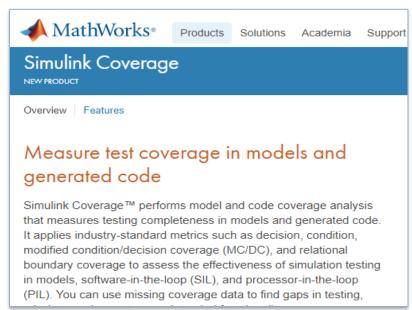
Learn More - New Product Web Pages

mathworks.com/products

Simulink Requirements

MathWorks® Products Solutions Academia Support Simulink Requirements New PRODUCT Overview Features Author, manage, and trace requirements to models, generated code, and test cases Simulink Requirements™ lets you author, analyze, and manage requirements within Simulink®. You can create rich text requirements with custom attributes and link them to designs, code, and tests. Requirements can be imported from external sources, and you can receive automatic notification when requirements change. You can view the requirements and design together, establish links with drag

Simulink Coverage



Simulink Check





Learn More

See License Related Changes link at mathworks.com/release

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R2017b for Simulink Verification and Validation	products at no initial cost:
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	Simulink Requirements
	They will appear on future Software Maintenance
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