

SimElectronics™ 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 V1.0 (R2008a+)	Yes Details	Not applicable	Bug Reports	Printable Release Notes: PDF Current product documentation

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®) for enhancements, bugs, and compatibility considerations that also might impact you.

If you are upgrading from a software version other than the most recent one, review the release notes for all interim versions, not just for the version you are installing. For example, when upgrading from V1.0 to V1.2, review the release notes for V1.1 and V1.2.

What's 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 is released appear under Bug Reports at the MathWorks Web site. Bug fixes can sometimes result in incompatibilities, so you should also 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. This includes 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 1.0 (R2008a+) SimElectronics™ Software

This table summarizes what's new in Version 1.0 (R2008a+):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes Details below	Not applicable	Bug Reports	Printable Release Notes: PDF Current product documentation

Product Introduction

SimElectronics™ software is a modeling environment for the engineering design and simulation of electronic and electromechanical systems within the Simulink® environment.

Version 1.0 includes these features:

- A library of electronic and electromechanical blocks that model components such as:
 - Sensors
 - Semiconductors
 - Actuators

For these blocks, you enter key parameter values directly from industry datasheets.

For more information about the available blocks, see “SimElectronics Block Libraries”.

- A function, `netlist2sl`, for creating library blocks that represent circuit data in a SPICE netlist.

For more information, see “Importing SPICE Models Into a SimElectronics Library” or the `netlist2sl` reference page.

- Ability to convert SimElectronics models to C code.

For more information about code generation, see “Generating Code” in the Simscape™ documentation.

- Access to linearization and steady-state solve capabilities in Simscape.

For more information about linearization, see “Linearizing Simscape Models” in the Simscape documentation.

For more information about how Simscape solves models, see “How Simscape Simulation Works” in the Simscape documentation.

Compatibility Summary for SimElectronics™ 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 V1.0 (R2008a+)	None