

OpenStudio Version 0.2.0 Build 3009

Release Notes – 09/30/2010

This document contains information specific to the OpenStudio suite developed by the National Renewable Energy Laboratory – Electricity, Resources and Building Systems Integration Center (ERBSIC), Commercial Building Research group, Tools Development. The document contains the following sections:

- Where To find OpenStudio Documentation
- Installation Notes
- New Features
- Known Issues
- List of Bugs Fixed

Where To Find OpenStudio Documentation

OpenStudio release documentation, including these release notes, is available at <http://openstudio.nrel.gov/documentation-users>.

Installation Notes

OpenStudio is supported on Windows, Mac, and Linux platforms.

Installation Notes for Windows

Supported platforms are Windows XP/2000/Vista/7.

- Download EnergyPlus 6.0 (Pre-release) from <https://cbr.nrel.gov/EnergyPlus/private/downloads/SetEPlusV600019-win32.exe>.
- OpenStudio SketchUp Plug-in requires Google SketchUp 7.0 or later (Free or Pro versions). Download from <http://sketchup.google.com>.
- Ruby Bindings require Ruby 1.8.6 or 1.8.7 [mswin32]. Download from <http://rubyforge.org/frs/download.php/72085/rubyinstaller-1.8.7-p302.exe>.
- Download the OpenStudio installer from <http://openstudio.nrel.gov/project/downloads>.
- Run the installer program.

Installation Notes for Mac

Supported platforms are Mac OS X 10.5/10.6:

- Download EnergyPlus 6.0 (Pre-release) from <https://cbr.nrel.gov/EnergyPlus/private/downloads/SetEPlusV600019-mac.dmg> (the password is 'password').
- OpenStudio SketchUp Plug-in requires Google SketchUp 7.0 or later (Free or Pro versions). Download from <http://sketchup.google.com>.
- Ruby Bindings require Ruby 1.8.6 or 1.8.7, which comes installed on Mac OS X machines. No need to install.
- Download the OpenStudio installer from <http://openstudio.nrel.gov/project/downloads>.
- Run the installer program.

Installation Notes for Linux

Supported platform is Ubuntu 10.04:

- Download EnergyPlus 6.0 (Pre-release) from <https://cbr.nrel.gov/EnergyPlus/private/downloads/SetEPlusV600019-lin.sh> (the password is 'password').
- OpenStudio SketchUp Plug-in is not supported on Linux platform, as Google SketchUp is not available.
- Ruby Bindings require Ruby 1.8.6 or 1.8.7. See download instructions at <http://www.ruby-lang.org/en/downloads/>.
- Download the OpenStudio installer from <http://openstudio.nrel.gov/project/downloads>.
- From the command prompt, type 'sudo chmod +x OpenStudio-0.2.0.3009-Linux.sh' and then 'sudo ./ OpenStudio-0.2.0.3009-Linux.sh' .

New Features

- **OpenStudio Platform 0.2.0 (alpha)**
 - Updated for EnergyPlus 6.0.
- **OpenStudio ResultsViewer 0.2.0 (beta)**
 - Updated for EnergyPlus 6.0.
 - Added support for Daylight Illuminance Maps
- **OpenStudio SketchUp Plug-in 1.1.0 (beta)**
 - Integrated with OpenStudio Platform.
 - Added support for Interior Partition Surfaces for thick walls, furniture, and other obstructions.
 - Added support for Air Wall Constructions for air-to-air zone boundaries.
- **OpenStudio RunManager 0.2.0 (beta)**
 - Added support for runs of multiple simulations.
 - Added support for Multiple Workflows for EnergyPlus and OpenStudio models.
 - Added remote Job Execution of SLURM Clusters.
- **OpenStudio SystemOutliner 0.2.0 (alpha)**
 - Added ability to create Single Zone AirLoop HVAC.

- Added functionality to open and edit OpenStudio OSM files.
- **OpenStudio ModelEditor 0.2.0 (alpha)**
 - Added support for editing EnergyPlus IDF or OpenStudio OSM files.
 - Added Tree and Table Views.
- **OpenStudio Ruby Bindings 0.2.0 (alpha)**
 - Added access to OpenStudio Building Model, EnergyPlus Utilities, and Core Utilities.
 - Added Model to Radiance Translation Script.

Known Issues

The following are issues known at the time of the release. All bug numbers refer to the OpenStudio Trac issue management system.

Known Issues Common to All Platforms

- **OpenStudio SketchUp Plug-in**
 - Copy and paste does not work correctly for zones with interior partition groups or zone shading groups. Bug # 735. Workaround: none.
 - Importing a new model causes bug splat when inside a zone. Bug # 762. Workaround: none.
 - Geometry problems on import of saved OSM. Bug # 801. Workaround: none.
 - Air walls do not show up when you import an OSM. Bug # 811. Workaround: none.
 - Cannot place Daylighting Controls or Illuminance Maps inside of a zone. Bug # 819. Workaround: none.
 - Model: Shading type conversion (e.g., building shading to site shading) has not yet been implemented. This can cause problems in the SketchUp Plug-in. Bug # 823. Workaround: redraw shading.
- **OpenStudio ModelEditor**
 - Tree view “add” object does not correctly parent new objects. Bug # 829. Workaround: none.
 - Class view does not sort objects by their workspace indices. Bug # 569. Workaround: none.
 - Drag/drop from object search widget is not functional. Bug # 828. Workaround: none.
- **OpenStudio RunManager**
 - RunManager might crash on exit. The probability of a crash is increased if jobs are currently running. Bug # 832. Workaround: although not guaranteed, ensure no jobs are currently running before exiting from RunManager.

Known Issues Specific to Microsoft Windows

None.

Known Issues Specific to Mac

None.

Known Issues Specific to Linux

- **OpenStudio Installer**
 - Linux installer should use rpath. If OpenStudio is installed to local directory, binaries will run without setting LD_LIBRARY_PATH. Bug # 831. Workaround: add \$InstallationDir/lib to LD_LIBRARY_PATH.

List of Bugs Fixed

The following OpenStudio Trac tickets were resolved. Their fixes are included in the release.

- **OpenStudio ResultsViewer**
 - #349, Zoom Span issue when using the rubber band zoom mode.
 - #350, Incorrect assignment of legend colors.
 - #353, Unhandled win32 exception.
 - #576, Not able to get timeseries reported for Run Period intervals from SQL File.
- **OpenStudio SketchUp Plug-in**
 - #724, Do not change users location when loading template OpenStudio.
 - #731, Default zone surfaces in new model are drawn with interior vs. exterior constructions.
 - #734, Split and copied surfaces are not created as EnergyPlus objects.
 - #739, Push/Pull error when new geometry being created using measurement box.
 - #751, New Shading Group function does not work.
 - #756, Copy and undo issues.