**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.