OpenStudio Version 1.11.0

Release Notes – 3/29/2015

These release notes describe version 1.11.0 of the OpenStudio software suite developed by the National Renewable Energy Laboratory (NREL), Buildings and Thermal Systems, Commercial Buildings Research Group, Tools Development Section, and associated collaborators. The notes are organized into the following sections:

- Where to Find OpenStudio Documentation
- Installation Notes
- Overview

Where to Find OpenStudio Documentation

- OpenStudio release documentation, including these release notes, tutorials, and other user documentation, is available at https://www.openstudio.net/.
- C++ API documentation is available at https://openstudio-sdk-documentation.s3.amazonaws.com/index.html.
- Measure development documentation is available at http://nrel.github.io/OpenStudio-user-documentation/reference/measure_writing_guide/.

Installation Notes

OpenStudio is supported on Windows 7 – Windows 10, OS X 10.9 – 10.10, and 64-bit Ubuntu 14.04.

Users should be aware that SketchUp 2016 may no longer automatically enable the OpenStudio extension after installation. To use SketchUp 2016 with OpenStudio, launch SketchUp and navigate to the dialog under Preferences->Extensions to enable OpenStudio. After making this selection, OpenStudio will appear under Extensions in the menu bar.

OpenStudio 1.11.0 supports EnergyPlus Release 8.5.0, which is bundled with the OpenStudio installer. It is no longer necessary to download and install EnergyPlus separately. Other builds of EnergyPlus are not supported by OpenStudio 1.11.0.

OpenStudio 1.11.0 supports Radiance 5.0.a.8, which is bundled with the OpenStudio installer. It is no longer necessary to download and install Radiance separately. However, an installer is available at https://github.com/NREL/Radiance/releases/tag/5.0.a.8. Other builds of Radiance are not supported by OpenStudio 1.11.0.

Installation Steps

- The OpenStudio SketchUp Plug-in requires SketchUp 2016 (not available for Linux). The OpenStudio SketchUp Plug-in does not support older versions of SketchUp. SketchUp 2016 is available in 32 and 64-bit versions; the 32-bit version of OpenStudio on Windows will only work with the 32-bit version of SketchUp 2016, and the 64-bit version of OpenStudio will only work with the 64-bit version of SketchUp 2016.

- o If the OpenStudio Plug-in does not automatically load in SketchUp, open the Window->Preferences->Extensions window in SketchUp and enable the OpenStudio plug-in if it is listed.
- Download and install OpenStudio.
- Setup a Building Component Library (BCL) account to access online building components and measures. View instructions on how to setup your account and configure the key in OpenStudio.

Overview

OpenStudio 1.11.0 has a number of new features and bug fixes. Some of the more noteworthy are as follows:

- OpenStudio now supports EnergyPlus version 8.5.0
- OpenStudio now includes Radiance version 5.0.a.8
- Added support for graphical dual duct system layout in the OpenStudio Application
- Added class PointLatLon for converting geographic coordinates to building coordinates
- Added version_modified element to BCL Measure XML
- Correct parsing of ISO 8601 formatted time strings
- Radiance measure now supports multiple (unlimited) glare sensors per space
- Construction inheritance is now displayed in the space tab

OpenStudio 1.11.0 includes several other minor features as well as many bug fixes. For a full list of changes included in OpenStudio 1.11.0, please see the complete changelog.

Issue Statistics Since Previous Release

- 93 new issues were filed since the 1.10.0 release of OpenStudio (not including opened pull requests).
- 72 issues were closed since the 1.10.0 release of OpenStudio (not including closed pull requests).