

DarkSkyWeather plugin for openLuup

Version : 0.2 beta

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Introduction :

This plug-in is intended to run under the "openLuup" emulation of a Vera system. It should work on a "real" Vera, but has not been tested in that environment. It is intended to capture and monitor select weather data provided by DarkSky (formerly Forecast.io) under their general terms and conditions available on the website <https://darksky.net/dev/>

It requires an API developer key that must be obtained from the website.

Requires:

1. A system running openLuup (or a Vera home automation controller, not tested) and the AltUI interface. For background, please see the <http://forum.micasaverde.com/> forum.
2. Lua libraries "ssl.https" and "dkjson" installed (should already be in an openLuup environment (please refer to openLuup documentation)
3. A valid API developer key from DarkSky (please check their website for terms and conditions)
4. Valid location latitude and longitude coordinates for lookup, in decimal format (for example 51.5085 and -0.1257 for London, UK. please check their website for details)

Installation:

1. Install from the AltUI App Store the "DarkSkyWeather" app
2. Select the "Variables" tab of the newly created "DarkSky Weather" device and edit the "Key", "Latitude" and "Longitude" variables to your needs (see requirements above).
3. Edit additional configuration variables as needed. See the "Configuration" section below for a description of these).
4. Reload the Luup engine...

Use:

You should now have 3 devices:

1. "DarkSkyWeather": the main plugin device, with the configuration variables and some additional weather variables. Under the AltUI interface, the current weather/wind data will be displayed on in the device box and the device icon will reflect the current weather conditions.
2. "DarkSky Temperature": a child device reporting the current temperature data and suitable for all usual actions/triggers in scenes for such a device.
3. "DarkSky Humidity": a child device reporting the current relative humidity data and suitable for all usual actions/triggers in scenes for such a device.

These 3 devices can be renamed as you wish using the AltUI interface.

Configuration:

The plugin configuration parameters are stored in the following device variables of the plugin:

Key	valid API developer key from Weather Underground.
Latitude	valid location latitude in decimal format.

Longitude	valid location longitude in decimal format.
Period	plugin data refresh interval in seconds (default is 1800 i.e. 1/2h).
Units	a valid DarkSky unit code (default is auto).
Language	a valid DarkSky language code (default is en for English).

The plugin will render all values in the units specific in the “Units” variable, irrespective of the Vera or openLuup system parameters.

Please note that only a very small subset of the weather data available from DarkSky has been implemented in this beta version of DarkSkyWeather. However, the code in “L_DarkSkyWeather.lua” can be easily edited to add more features.

Notice:

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Appendix:

The below provides some configuration information from the DarkSky developer website, for ease of reference only and subject to all terms and conditions of their service:

Key: Your Dark Sky secret key

Latitude: The latitude of a location (in decimal degrees). Positive is north, negative is south.

Longitude: The longitude of a location (in decimal degrees). Positive is east, negative is west.

Language: Return summary properties in the desired language. (Note that units in the summary will be set according to the units parameter, so be sure to set both parameters appropriately).
Language may be:

- ar: Arabic
- az: Azerbaijani
- be: Belarusian
- bs: Bosnian
- ca: Catalan
- cs: Czech
- de: German
- el: Greek
- en: English (which is the default)
- es: Spanish
- et: Estonian
- fr: French
- hr: Croatian
- hu: Hungarian
- id: Indonesian
- it: Italian

is: Icelandic
kw: Cornish
nb: Norwegian Bokmål
nl: Dutch
pl: Polish
pt: Portuguese
ru: Russian
sk: Slovak
sl: Slovenian
sr: Serbian
sv: Swedish
tet: Tetum
tr: Turkish
uk: Ukrainian
x-pig-latin: Igpay Atinlay
zh: simplified Chinese
zh-tw: traditional Chinese

Units: Return weather conditions in the requested units. Units should be one of the following:

auto: automatically select units based on geographic location
ca: same as si, except that windSpeed is in kilometers per hour
uk2: same as si, except that nearestStormDistance and visibility are in miles and windSpeed is in miles per hour
us: Imperial units
si: SI units