



Control Programming LLC

Release Notes

UI Tile – Control Programming LLC – Sun - Cloud
version 2.00.006

Extension

This release note is for the CPLL Sun Position Extension. This extension tracks the position of the Sun and when the sun is between the Min/Max Azimuth and the Min/Max elevation an event is triggered.

A description of how the Sun's position is calculated can be found at <https://www.sciencedirect.com/science/article/abs/pii/S0038092X7890155X>.

Notes and Recommendations

Drivers->Date-Time->Control Programming->Sun













System Requirements and Dependencies

Crestron Home v3.14

This extension requires that the License Manager (<https://cpllc.net/product/license-manager/>) must also be installed on the processor.

Operation Installation/Upgrade Instructions

Installer Options

 Obtain License Key Clicking the link, on the right, takes you to CPLLC.net where license keys can be obtained. A purchased license key is required to be entered i...	CPLLC.net
 Enter License Key A purchased license key must be obtained by clicking the above link and entered here. The extension will function 100% without a license key ...	<input type="text"/>
 Show in Home Screen Checked to show on Home screen	<input type="checkbox"/>
 Show on Room Screen Checked to show in Room screen	<input checked="" type="checkbox"/>
 Minutes between Update Minutes between Sun position update	<input type="text" value="5"/>
 Latitude Latitude of where Sun is being tracked	<input type="text" value="35.97004"/>
 Longitude Longitude of where Sun is being tracked	<input type="text" value="-85.06042"/>
 Maximum Azimuth Maximum Azimuth	<input type="text" value="270"/>
 Minimum Azimuth Minimum Azimuth	<input type="text" value="220"/>
 Maximum Altitude Maximum Altitude	<input type="text" value="50"/>
 Minimum Altitude Minimum Altitude	<input type="text" value="0"/>
 CPLLC License Manager This extension requires the CPLLC License Manager to also be installed...	

Obtain License Key – clicking on “CPLLC.net” will bring up the webpage to purchase a license.

Enter License Key – this is where the individual license should be placed obtained above

Show in Home Page – checked if the tile should be displayed on the home page.

Show on Room Page – checked if the tile should be displayed in the room.

Minutes between Update – number of minutes between Sun position updates

Latitude – Latitude from where the Sun position is tracked

Longitude – Longitude from where the Sus’s position is tracked

Maximum Azimuth – Maximum Azimuth used for the event trigger

Minimum Azimuth – Minimum Azimuth used for the event trigger

Maximum Altitude – Maximum Altitude used for the event trigger

Minimum Altitude – Minimum Altitude used for the event trigger

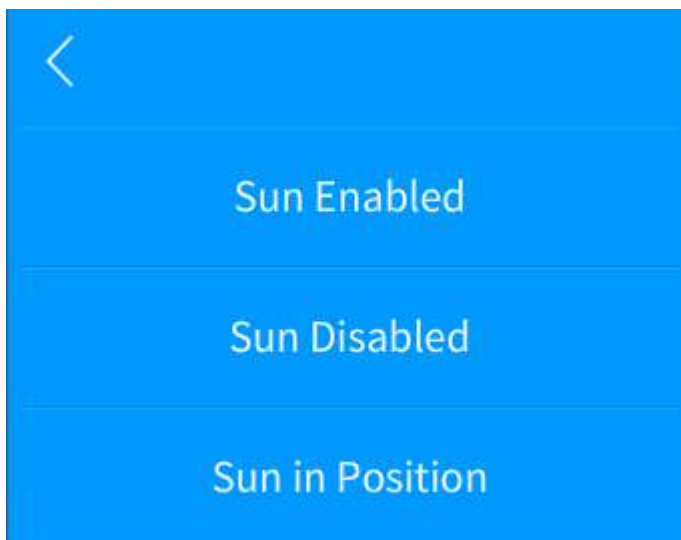
Actions



Sun Disable – Disable the extension

Sun Enable – Enable the extension

Events



Sun Enabled - enable normal extension functions.

Sun Disabled – disable normal extension functions.

Sun in Position – this event is triggered when the Sun's position is between the Min/Max Azimuth AND the Min/Max Elevation. This event is triggered only once per day

End-User Experience



Above is the tile feedback when an error condition that shows the license has expired.



The tiles show the Sun's position the Azimuth (AZ) and Altitude (ALT). The Sun is above the horizon if the Altitude is positive otherwise it is below the horizon if negative

Limitations/Known Issues

- No know limitations or issues

Supported Features

- Not applicable

Test Environment

- CP4-R and MC4-R
- Crestron Home v3.005.0054

Contact Information

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- License Key: <https://cpllc.net/?product=ui-tile-toggle>

Version History

2023-04-19 2.00.006

- Initial release

Licensing and Copyright Information

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