

Virtual object SunriseSunsetCalendar

This document presents configuration of the SunriseSunsetCalendar virtual object.

The presented configuration was prepared for:

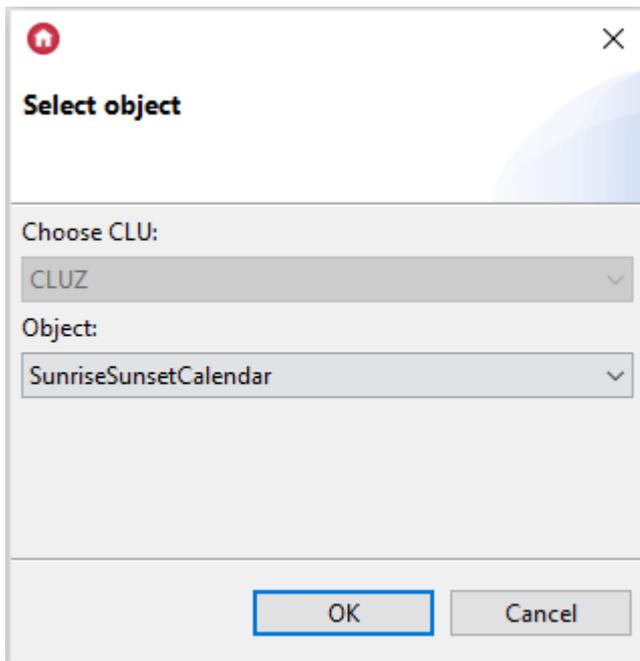
- Object Manager v.1.6.1 (build 221101),
- CLU Z-Wave v5.09.02 (build 2208)

To create the *SunriseSunsetCalendar* virtual object, proceed as follows:

Object creation and configuration

Preparation

- Create a virtual object `SunriseSunsetCalendar`.



- Enter the name of the object, e.g. `Sunset_Sunrise_Blinds` and enter the longitude and latitude.

Home
✕

Object properties

Name: Type:

Id:

Control
 Events
 Embedded features

Feature name	Current value	Initial value	Unit	Range
Longitude	-	<input type="text" value="19.8717"/>		
Latitude	-	<input type="text" value="50.0673"/>		
State	-	<input type="text" value="On"/>		1,0
SunriseUTC	-			
SunsetUTC	-			
SunriseLocal	-			
SunsetLocal	-			
SunriseUTCTimestamp	-		s	
SunsetUTCTimestamp	-		s	
SunriseLocalTimestamp	-		s	
SunsetLocalTimestamp	-		s	
IsDayNow	-			
SunriseOffset	-	<input type="text" value="0"/>	m	
SunsetOffset	-	<input type="text" value="0"/>	m	
NextSunrise	-		m	
NextSunset	-		m	

Auto refresh

Refresh

- Make sure that the initial value for the *State*: feature is set to *On*.

Object properties ✕

Name: Type:

Id:

Control
 Events
 Embedded features

Feature name	Current value	Initial value	Unit	Range
Longitude	-	<input type="text" value="19.8717"/>		
Latitude	-	<input type="text" value="50.0673"/>		
State	-	<input type="text" value="On"/>		1,0
SunriseUTC	-			
SunsetUTC	-			
SunriseLocal	-			
SunsetLocal	-			
SunriseUTCTimestamp	-		s	
SunsetUTCTimestamp	-		s	
SunriseLocalTimestamp	-		s	
SunsetLocalTimestamp	-		s	
IsDayNow	-			
SunriseOffset	-	<input type="text" value="0"/>	m	
SunsetOffset	-	<input type="text" value="0"/>	m	
NextSunrise	-		m	
NextSunset	-		m	

Auto refresh
 Refresh

When the *State* Embedded feature takes the value *Off*, the *OnSunrise*, *OnSunset*, *OnSunriseSunsetChange*, *OnDay*, *OnNight* events are not generated.

- After sending the configuration to the CLU, the values of the Embedded features are as follows.

Object properties
✕

Name: Type:

Id:

Control
 Events
 Embedded features

Feature name	Current value	Initial value	Unit	Range
Longitude	19.87	<input type="text" value="19.8717"/>		
Latitude	50.07	<input type="text" value="50.0673"/>		
State	1	<input type="text" value="On"/>		1,0
SunriseUTC	02:38 UTC			
SunsetUTC	18:52 UTC			
SunriseLocal	04:38			
SunsetLocal	20:52			
SunriseUTCTimestamp	1657161480		s	
SunsetUTCTimestamp	1657219920		s	
SunriseLocalTimestamp	1657168680		s	
SunsetLocalTimestamp	1657227120		s	
IsDayNow	1			
SunriseOffset	0	<input type="text" value="0"/>	m	
SunsetOffset	0	<input type="text" value="0"/>	m	
NextSunrise	1063		m	
NextSunset	597		m	

Auto refresh

The *SunriseLocal* and *SunsetLocal* features return information about the sunrise / sunset time depending on the time zone set.

SunriseLocal, *SunsetLocal* is refreshed at midnight local time.

The *NextSunrise* and *NextSunset* features return the time remaining to sunrise and sunset in minutes.

- In order for the *OnSunrise*, *OnSunset*, *OnSunriseSunsetChange* events to be triggered before or after sunrise or sunset, set the value of the *SunriseOffset*, *SunsetOffset* feature.

Object properties
✕

Name: Type:

Id:

Control
 Events
 Embedded features

Feature name	Current value	Initial value	Unit	Range
Longitude	19.87	<input type="text" value="19.8717"/>		
Latitude	50.07	<input type="text" value="50.0673"/>		
State	1	<input type="text" value="On"/>		1,0
SunriseUTC	02:38 UTC			
SunsetUTC	18:52 UTC			
SunriseLocal	04:38			
SunsetLocal	20:52			
SunriseUTCTimestamp	1657161480		s	
SunsetUTCTimestamp	1657219920		s	
SunriseLocalTimestamp	1657168680		s	
SunsetLocalTimestamp	1657227120		s	
IsDayNow	1			
SunriseOffset	-50	<input type="text" value="-50"/>	m	
SunsetOffset	60	<input type="text" value="60"/>	m	
NextSunrise	1057		m	
NextSunset	591		m	

Auto refresh

- A virtual object created in this way can be used, among others to raise the blinds at sunrise and lower them after sunset, or to start and stop the virtual object *PresenceSensor*.

The screenshot shows a software interface window titled "Object properties" with a close button (X) in the top right corner. The window contains the following elements:

- Name:** **Type:**
- Id:**
- Three tabs: **Control** (selected), **Events**, and **Embedded features**.
- A table with three columns: **Event name**, **Assigned commands**, and **Add command**.
- Buttons: **Assign command** (with a red X icon) and **Add command** (with a red plus icon).
- Buttons at the bottom: **OK** and **Cancel**.

Event name	Assigned commands	Add command
OnStart		
OnStop		
OnSunrise	<input type="text" value="CLUZ->Livingroom_Blinds->MoveUp(0)"/> Assign command	
OnSunset	<input type="text" value="CLUZ->Livingroom_Blinds->MoveDown(0)"/> Assign command	
OnSunriseSunsetChange		
OnDay		
OnNight		