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[0x4301] Solar Kbd Dashboard DRAFT SPEC

max_num_of_reports,report_period = [0]SetLightMeasure(max_num_of_reports, report_period)
LED_ID = [1]SetLED(LED_ID)

Application Specific Event

Broadcast Event
BattStatus = [0]BatteryBroadcastEvent
BattLightStatus = [1]BattLightMeasureBroadcastEvent
BattLightStatus = [2]CheckLightButtonBroadcastEvent

FUNCTIONS

SetLightMeasure

Summary
Gives the current light measure in lux (min 0 = 0 lux, max 511 = 511 lux)

Parameters
max_num_of_reports [8bits] Maximum number of BattLightMeasureEvents that will be sent after function call (0 = cancel event reporting)
report_period [8bits] Minimum time (1s units) between two consecutive BattLightMeasureEvents (0 = cancel event reporting)

Errors
None

Remarks
max_num_of_reports counter must be reset when exiting disconnected mode.
example:

```
85  411  03 06 0 X 10 03 06 0F 05 02 00 SetLightMeasure
    438  03 06 0 R 11 03 06 0F 05 02 00 00 00 00 00 00 00 00 00 00 00 00 00
87  442        3 SetLightMeasure response
                 [ num_of_reports: 5, period: 2 seconds]
```

Request

0	1	2
max_num_of_reports	report_period	0

Response

0	1	2
max_num_of_reports	report_period	0

SetLED

Summary
Light the selected LED for the duration (hard-coded in FW)

Parameters
LED_ID [8bits] Target LED (0=LEDS_OFF, 1=RED, 2=ORANGE, 3=GREEN)

Returns
[void]

Errorsnone

Remarks
SetLED is supposed to be used only to override the FW CheckLight LED display. FW will wait 250ms before displaying CheckLight status on LEDs, to let host SW enough time to react to the CheckLightButtonBroadcastEvent. If SW sends the SetLED before the 250ms timeout expires, the FW does not display CheckLight status on LEDs at all, but if timeout expires, FW displays its own CheckLight status.

Request

0	1	2
LED_ID	0	0

Response

0	1	2
LED_ID	0	0

EVENTS

BatteryBroadcastEvent

Reports battery capacity to host SW spontaneously each 90s when keyboard is being used A report is also sent at power-up and when exiting disconnected mode.
LightLevelMeasure bytes are set to 0.

	132	07 12:22:46	837	03	06	**Notif 0**	R	(91000)11 03 06 00 60 00 00 06 72 47 4F 4F 44

							00 00 00 00 00 00 00
65							
	71						Broadcast Event[BattLightBroadcastEvent] received [BatteryLevel: 96%, LightLevel: 0, BattADC: 2.67793237653V] K750 received after 71.8300018311 s
	135		838			1	

BattLightMeasureEvent

Reports battery and light level to host SW according to parameters provided by SetLightMeasure function

108	079	03 06	**Notif 1**	R	(3000)11 03 06 10 60 01 3F 06 72 47 4F 4F 44 00 00 00 00 00 00 00	
65	079			3		
71	079			3		
111	080			1	Broadcast Event[BattLightMeasureBroadcastEvent] received [BatteryLevel: 96%, LightLevel: 319, BattADC: 2.67793237653V] K750 received after 0.0 s	

CheckLightButtonBroadcastEvent

Flag that CheckLight button has been pressed and report also battery and light level to SW

132	006	03 06	**Notif 2**	R	(91000)11 03 06 20 60 00 00 06 72 47 4F 4F 44 00 00 00 00 00 00 00	
65	006			3		
71	006			3		
135	007			1	Broadcast Event[CheckLightButtonBroadcastEvent] received [BatteryLevel: 96%, LightLevel: 0, BattADC: 2.67793237653V] K750 received after 0.0 s	

Report

BatteryLevel [8bits] The remaining battery capacity as defined in Notes Link,

LightLevelMeasure [16bits] Gives the current light measure in lux

Remarks

See BattLightMeasureEvent remarks

NOTE: When CheckLight button is pressed, the HID code page 0x0C, usage 0x01F0 is also sent (dummy keystroke, sent for FW internal reasons)

Report

0	1	2
BatteryLevel 	LightLevelMeasure MSB	LightLevelMeasure LSB