EnOcean Equipment Profiles

REVISION HISTORY

Ver.	Editor	Change	Date
2.6.8	NM	Last xml edition of the EEP-Specification	Dec 31, 2017

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D2-40: LED Controller Status

Description
This family of EEP's is used for sending handling a LED controller device. The status is send periodically, or after product specific event occurred e.g. when one of the parameters from the status message has changed. It allows other devices to monitor LED controller and react to its actions.

Data exchange
Direction: unidirectional
Addressing: broadcast
Communication trigger: event- & time-triggered
Communication interval: configurable
Trigger event: heartbeat, change of one of the parameters from the status message
Tx delay: -
Rx timeout: -

Teach-in
Teach-in method: Universal teach-in (UTE)

Security
Encryption supported: no
Security level format: -

EEP Family Table:

Supported function	Type 00	Type 01
MsgId	X	X
LED output enabled	X	X
"Demand Response" mode Active	X	X
Daylight Harvesting	X	X
Occupancy state	X	X
Status Tx reason	X	X
Current Dim Level	X	-
Current Dim Level LED R	-	X
Current Dim Level LED G	-	X
Current Dim Level LED B	-	X

Each TYPE has to support every parameter that is marked in its column!

"LED output enabled" parameter is correlated with dimming level – it is set to ENABLE if dimming level is above 0%. 0% dimming level means that the light is completely OFF.

LED controller has a "Demand Response" feature. When DR mode is triggered by external device, "Demand Response" mode Active will be set to TRUE.

Daylight Harvesting feature of the LED controller is also triggered by the external sensor.

Occupancy state is change by occupancy sensor taught in to the LED controller.

DR, Daylight Harvesting, and Occupancy will influence dimming levels, with an algorithm specific to the device that sends the status message.

RORG	D2	VLD Telegram
FUNC	40	LED Controller Status
TYPE	00	Type 0x00

Submitter: EnOcean GmbH

MsgId 0x00: Status of monocolor LED controller

MsgId 0x00

	DB_1								DB_0							
DB_1.BIT_7 ← 0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Bit Offset: 0 → 15	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	OUTEN	DRA	DHAR	OCC		SREAS	MI		DLVL							

monocolor LED

Offset	Size	Data	ShortCut	Description	Valid Range	Scale	Unit
0	1	LED output enabled	OUTEN	Driving LED enabled	Enum: 0: Disabled 1: Enabled		
1	1	"Demand Response" mode Active	DRA	Controller is in the DR mode. It had received a DR command from DR controller, and it is executing it.	Enum: 0: False 1: True		
2	1	Daylight Harvesting Active	DHAR	Daylight harvesting feature is turned on. Readings from photo sensor are influencing the dimming level.	Enum: 0: False 1: True		
3	2	Occupancy State	OCC	Room which controller is in charge of is considered occupied.	Enum: 0: Not occupied 1: Occupied 2: Unknown		
5	1	Status Tx reason	SREAS	Reason for sending this status message	Enum: 0: Other 1: Heartbeat		
6	2	MsgId	MI	Message Id; 0x00	Enum: 0: LED Status monocolor		
8	8	Current Dim Level	DLVL	Current dim level for the monocolor LED	Enum: 0...200: 0...100 % 0xFF: If not used		