Submitter:

Submitting EnOcean Alliance Member: Rehau AG & Co
Membership Level: Participant

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Date of Submission:	2018-05-28
Start of TWG Review:	2018-06-28
Date of Approval:	YYYY-MM-DD

EEP Version: **x.x**
Last Change: **2018-06-25**
Status: **DRAFT**

Change History :

Date	Version	Author	Description
2018-05-28	1.0	Stephan Kundt	First Draft
2018-06-25	1.1	Stephan Kundt	Changes at trigger and timing
2018-06-26	1.2	Armin Pelka	Profile no. and type text, IoT representation and timing column added

EEP Submission

R-ORG	D2	VLD Telegram
FUNC	06	Multisensor Window / Door Handle and Sensors
TYPE	10	Intrusion detection system for Windows

Description:

Rehau is a manufacturer of PVC profiles for windows. The Rehau "smart guard" for which this communication profile was developed is an intrusion detection system for windows. The "smart guard" is built into the window profile and has a PIR sensor, an acceleration sensor, and a reed contact. For showing an alarm it has a piezo element and a red LED.
To prevent faulty alarms there is a 2 step alarm system used: A pre-alarm shows the intruder that he was detected by the system with a sound and flashing LED. If there another sensor is triggered (window open or knocking on window) the normal alarm starts.

The alarm and pre-alarm can be switched off and on by the user

EEP Properties:

Data exchange

Direction: bidirectional (Smart-Ack)

Timeouts: -

Teach-in

Teach-in method: Smart-Ack teach-in

Security

Encryption mandatory: no

Security level: -

Telegram Definition:

Sensor-Message:

direction: Sensor -> Gateway
addressing: unicast (ADT)
triggers: change at window-contact or pre-alarm detected,
                          heartbeat
timing description: heartbeat-interval 2 minutes, change at window-
                          contact or pre-alarm transmitted immediately

Offset	Size	Bit-range	Data	Short-Cut	Description	Valid Range	Scale	Unit	Trigger
0	1	DB0.7	Pre-alarm	PA	Status of pre-alarm	Enumeration: 1: pre-alarm occured 0: no pre-alarm			X
1	1	DB.0.6	Alarm	AL	Status of Alarm	Enumeration: 1: alarm occured 0: no alarm			
2	1	DB0.5	Window-contact	CT	Status of the window-contact	Enumeration: 1: contact closed 0: contact open			X
3	1	DB0.4	Pre-alarm En-/Disabled	PAE	Pre-alarm monitoring enabled/disabled	Enumeration: 1: pre-alarm enabled 0: pre-alarm disabled			
4	4	DB0.0 … DB0.3	Not Used (= 0)						

Gateway-Message (SmartAck DataAcknowledge):

direction: Gateway -> Sensor
addressing: unicast (ADT)
triggers: response to sensor-message (Smart-ACK)
timing description: Smart-ACK data-acknowledge

Offset	Size	Bit-range	Data	Short-Cut	Description	Valid Range	Scale	Unit
0	1	DB0.7	Set Alert-Level	AL	State of the global alarm-system	Enumeration: 1: enable alarm-system 0: disabled alarm-system		
1	2	DB.0.5 … DB0.6	Not Used (= 0)					
3	1	DB0.4	Pre-alarm En-/Disable	PAE	enable/disable Pre-alarm monitoring	Enumeration: 1: enable pre-alarm 0: disable pre-alarm		
4	4	DB0.0 … DB0.3	Not Used (= 0)					

IP representation of Profile Definition:

Data (from Telegram)	IP KEY	Valid Range	Step size	Unit	IP Meaning
Pre-alarm state	preAlarmState	false (default)			No pre-alarm occured
		true			Pre-alarm occured
Alarm state	AlarmState	False (default)			No alarm occured
		true			Alarm occured
Window-contact	window	closed (default)			Window closed
		open			Window open
Pre-alarm Enable	preAlarm	true			Pre-alarm monitoring is enabled
		false			Pre-alarm monitoring is disabled
Alarm monitoring	AlarmMonitoring	False (default)			Alarm system is disabled
		true			Alarm system is enabled
Pre-alarm monitoring	PreAlarmMonitoring	True (default)			Enable pre-alarm monitoring
		false			Disable pre-alarm monitoring

Appendix:

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