If in toggle switch applications repeaters are used, the interpretation of telegram repeater status / counter is necessary:

Within toggle switch applications using EnOcean transceivers in the operation mode 'serial receiver' in combination with repeaters, please ensure that no serial command interpretation error caused by repeated telegrams occurs at receiver/actuator.

A toggle signal means that the same telegram data, e.g. same button action from a PTM switch alternatively switches ON and OFF an actuator. I.e. in toggle mode, a light should be switched ON and OFF by receiving the same “I”-button telegram from a PTM module. Considering the first telegram switches the light ON, an eventually following repeated telegram (coming within the same receiver maturity time of 100 milliseconds) would actually switch OFF the light again, in case that the receiver would not recognize the repeated status of this telegram.

It is therefore mandatory to interpret the RP_COUNTER field (Status) of the telegrams too. If a repeated telegram (e.g. having RP_COUNTER=1) is received within the maturity time it has to be verified if an original message having same data but having RP_COUNTER=0 has already been received during the previous 100 milliseconds. If original message is detected the following repeated one(s) must be correspondingly discarded.

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