

LoRaWAN Certification Test Report

Date: 13th of January, 2017

Location: Etteplan Oyj, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Sampo Mäkelä

Company and Contact Information:

SKS Automaatio Oy
Martinkyläntie 50, P.O.Box 12
FI-01721 Vantaa
Finland

Vesa Tepponen
vesa.tepponen@sk.fi

Tested Device: WLT 310

Firmware version: V1.028

Hardware version: E

End-device identifier: 39003B0004503342 (OTAA)

LoRa Device Class: A

LoRaWAN Specification version: V1.0

Certification requirements: LoRa End Device Certification EU Version1.2

Frequency band(s) tested: 868 MHz

Test Equipment:

Test Software Version: 1.1.8
Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0
Packet forwarder software version 2.1.0

Test Result: **PASS**

Detailed Test Results:

Test Mode activation (Over the Air Activation): **PASS**

Test application functionality: **PASS**

Packet Error Rate RX2 SF12: **PASS**

Cryptography: **PASS**

Downlink Window Timing: **PASS**

Frame Sequence Number: **PASS**

Device Status Request: **PASS**

New Channel Request: **PASS**

Confirmed packets: **PASS**

RX Parameter Setup Request: **PASS**

RX timing setup request: **PASS**

Link ADR Request: **PASS**

Packet error rate RX1 Window: **PASS**

Packet error rate RX2 Window: **PASS**

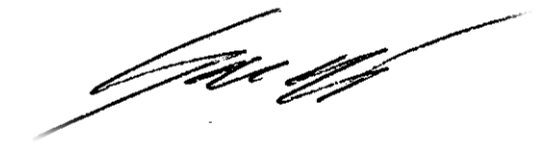
Supported Optional Features:

Adaptive Data Rate (ADR): **Yes**

SF7, BW250 kHz: **Yes**

FSK, 50 kbps: **No**

Remarks: None.



Sampo Mäkelä, Etteplan Oyj