LoRaWAN Certification Test Report

Date: 7th of March 2016

Location: Espotel Oy, Jyväskylä Test Laboratory, Finland

Responsible Test Engineer: Petteri Aimonen

Company and Contact Information:

   Multitech Systems Inc.
   David Smith
   2205 Woodale Dr
   55112, Mounds View, MN
   USA

Tested Device: MultiConnect mDot

Firmware version: 1.0.4

Hardware version: Rev B

End-device identifier: 008000000000ABB8

LoRa Device Class: A

LoRaWAN Specification version: V1.0

Certification requirements: LoRa End Device Certification EU Version1.1

Frequency band(s) tested: 868 MHz

Test Equipment:

   Test Software Version: 1.1.5
   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 (Activation by Personalization): **PASS**
- 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: **Yes**

Remarks: None.

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Petteri Aimonen, Espotel Oy