

Element Materials Technology
100 Frobisher Business Park
Malvern
Worcestershire
WR14 1BX
UK

Date: 19th November 2019

RE: Software Attestation for Class III Permissive Change Request

FCC ID: QWP-50450M

To Whom It May Concern:

Subject – Attestation of software used in Part 90Y submission for FCC ID: QWP-50450M.

Cambium Networks confirm that: -

During certification test the PMP 450m uses internal development software which is identified as MEDUSA-BUILD-xxx, where xxx is a unique reference number; this development software is the building block for the final released software. On completion of certification test and internal System Integration Test this software will be released to customers with a customer facing traceable identification reference defined as CANOPY W.X.Y.Z :-

W = Major - designator for a major feature set

X = Minor - designator for minor updates, bug fixes and enabling HW features

Y = Point - designator for bug fixes

Z = Dot – designator for emergency bug fixes on a Point release

CANOPY 16.0 would be the first release and a Major software version, CANOPY 16.1 would be a Minor modification to the major software release, CANOPY 16.1.1 would be a Point Release to the minor release and CANOPY 16.1.1.1 would be a Dot bug fix to the point release

When comparing two software versions, the higher BUILD-xxx number used with internal development software indicates the later version and with customer facing software the later version is the one with the greater Major version or, if the Major versions are identical, the one with the greater Minor version or, if the Minor versions are identical, the one with the greater Point version or, if the Point versions are identical, the one with the greater Dot version indicates the later version. Any version later than the version modified by a Class III change will exhibit the modified behavior or features of the Class III change.

Software versions listed in the Original QWP-50450M Grant and subsequent Class III Permissive change requests are listed below.

Software Version declared in the original Part UNII-3 submission: -

- CANOPY 15.0 (Build 579) AP-DES
- CANOPY 15.0 (Build 619) AP-DES (30MHz to 1 GHz and AC Power Line conducted emissions)

Software Version declared in the Part 15E UNII-2C Class III submission: -

- CANOPY 15.0 (Build 619) AP-DES

Software Version declared in the Part 15E UNII-1 and UNII-2A Class III submission: -

- CANOPY 15.0.1 (Build 57) AP

Software Version declared for DFS test in this Part 15E UNII-2A and UNII-2C Class III submission: -

- CANOPY 15.0.1 AP

Software Version declared in this Part 15E UNII-1, UNII-2A, UNII-2C and UNII-3 Class III submission: -

- CANOPY 15.1 (W) AP

Software Version declared in this Part 90Y submission: -

- CANOPY 16.0.1.1 (Build DEV-40) AP

We further state that there has been no change to the original Software, Distribution and Security Documentation to support this submission

We state that software version CANOPY 16.0.1.1 is a progression from previous CANOPY 15.0 software that does not affect the performance of the product as previously tested. There are no changes in the Point software release CANOPY 16.0.1.1 that may affect any of the certification test cases.

The customer release software to support compliant operation in the Part 15E UNII-1, UNII-2A and UNII-2C (with DFS and TPC), UNII-3 and Part 90Y frequency bands will be from release CANOPY 16.2

Thank you for your attention to this matter.

Yours faithfully
Cambium Networks Ltd



Donald W Reid
CEng MIET
Principal Regulatory Engineer