

Castel San Pietro Terme, November 11, 2022

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### **Application for a Class 2 Permissive Change to certified device FCC ID XM2-X35H2B**

Teko Telecom srl, having a business address in Italy at Castel San Pietro Terme (BO), Via Meucci 24/a, herein submits the application for a Class 2 Permissive Change to certified XR35WH2/ACY-C with FCC ID XM2-X35H2B.

#### **DESCRIPTION OF CLASS 2 PERMISSIVE CHANGES**

- **5G NR modulation**

Other than LTE modulation, the equipment is able to work with 5G NR modulation con 5MHz, 10MHz, 15MHz, 20Mhz, 25MHz, 30MHz, 40MHz, 50MHz and 60MHz of bandwidth.

To manage 5G NR modulation, no hardware changes are necessary, but only a different processing of the baseband signal.

To demonstrate compliance with FCC rules, the following document are added/updated:

- New RF report to demonstrate compliance with 47 CFR Part 96 (relevant part applicable);
- “Operational description” where a summary table and example of calculations are added to demonstrate compliance with Category A and Category B requirements (EIRP Output power and EIRP PSD) for each bandwidth.
- “User guide” where, in FCC compliance chapter. a summary table and example of calculations are added to demonstrate compliance with Category A and Category B requirements for each bandwidth.

- Two possible configurations for connection between XTRAN® base band unit (BBU) and TEKO CellHub® Radio Unit (RRH) are considered: **CPRI configuration and ORAN configuration**. More detail and complete description are on “Operational description” document.

Based on above description, no other document must be updated (schematics and part list, block diagram, labels, external and internal photographs).

## §96.39 Citizens Broadband Radio Service Device (CBSD) general requirements

SAS protocol was tested on the same equipment (Report 401032-1TRFWL) on October 20, 2020 applying the following standard:

- WINNF-TS-0122, Version v1.0.1
- WINNF-IN-00129, Version v1.0.0.0

Following what was described in the previous paragraph relating to class 2 permissive change, we can confirm that:

- CBRS DP (domain proxy) has been **updated to introduce NR support only**. None of the new features introduced in WINNF-TS-3002 has been put into CBRS DP solution. What changed has been the registration procedure sent by CBRS DP to SAS, RadioTechnology field has been updated and its value changed from E\_UTRA to NR as shown in example below and according to WINNF-SSC-0002

<pre>{   "registrationRequest": [     {       "fccId": "&lt;allowed FCC ID&gt;",       "userId": "&lt;allowed user ID&gt;",       "cbsdSerialNumber": "&lt;unique device ID&gt;",       "cbsdCategory": "&lt;category&gt;",       "airInterface": {         "radioTechnology": "E_UTRA"       }     }   ] }</pre>	<pre>{   "registrationRequest": [     {       "fccId": "&lt;allowed FCC ID&gt;",       "userId": "&lt;allowed user ID&gt;",       "cbsdSerialNumber": "&lt;unique device ID&gt;",       "cbsdCategory": "&lt;category&gt;",       "airInterface": {         "radioTechnology": "NR"       }     }   ] }</pre>
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- Changes introduced in **new WINNF-TS-0122, Version v1.0.2** doesn't impact on any test in CBRS DP (domain proxy). In fact, the UUT RF Transmit Power Measurement Performance Test Case is updated for multi air interface. This test is not applicable to our CBRS DP (domain proxy) because this solution only works with single air interface.
- No other changes were introduced to the already tested software



**Teko Telecom S.r.l. a Socio Unico**

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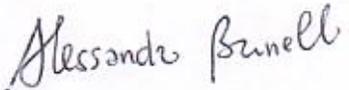
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**Dated** 11 November 2022

**By:**  **ALESSANDRO BRUNELLI**  
**Signature** **Printed**

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