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To whom it may concern:

**Declaration of configuration details for Trimble GeoExplorer 6000 series variants.**

Certification testing of the GeoExplorer 6000 series handheld has proceeded on the basis that test results can be used to leverage results across variants, and to assist Cetecom in this regard Trimble Navigation are issuing the following declaration :

**Hardware:**

- There are only two hardware build variants: All GeoExplorer 6000 series variants either have cellular modem capability fitted or not.
- The items identified in Table 1 fully describe all related changes that differentiate the two hardware products from each other.
- The test sample units 88951-XX and 88950-XX that have been provided to Cetecom are fully representative of production hardware variants that are listed in Table 2 that will be sold to customers.

**Firmware/Software:**

Both the above hardware variants are configured at the end of the manufacturing line by a program which loads locations in Flash memory with appropriate initialisation flags so as to indicate:

- a) whether the system firmware has a modem card fitted or not, and
- b) whether the configured unit will be able to access all visible satellites across all GNSS bands, or not.
- c) whether the configured unit will be able to access sensor information provided by the sensor board, or not
- d) whether the WiFi radio is enabled, or not (set to enable wifi radios in both hardware variants)
- e) appropriate labelling, serial number etc

Trimble further attest that flags b) & c) make no difference in respect of intentional or unintentional radio transmissions from the units; the intention of flags b) and c) is to facilitate

chosen software applications achieve a higher positional accuracy under a trademarked algorithm & capability called "Floodlight".

The Bluetooth/Wi-Fi is enabled by default on all devices, with the users subsequently being able to turn it off with the Radio Activation Manager; when fitted, the cellular device is not controlled by the Radio Activation Manager.

Both hardware cases that have been tested at Cetecom include Trimble software build 6.5.7, which incorporates Microsoft Mobile OS 6.5 into Flash memory. The customisation procedure is detailed in document 89000-XX-CP.

When the user first switches the unit on, the Microsoft OS will read the initialisation flags in order that the correct drivers are loaded for that specific Hardware implementation.

On the basis of the above information, Trimble maintain that:

- i) the testing of two hardware versions is sufficient to fully characterise the performance of all GeoExplorer 6000 variants under certification testing, including those which may include bundled software applications and marketed under the names of GeoCollector as per Table 2.
- ii) many test results which are not directly related to GSM performance will be common across both hardware builds.

Known exception(s) to rule ii) mentioned above are that versions fitted with modem will:

- Consume more power
- have the potential to produce a greater level of spurious radio emissions
- attain higher internal temperature than the non-modem version.

On the above basis, and its own internal testing, Trimble maintain that measurements made on the GSM hardware loaded variant 88951-XX which do not exceed limit values may be leveraged to the corresponding non-GSM versions 88950-XX.

Signed



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Table 1 Differences and commonalities between the Two model Hardware variants under test

Item	Test Units 88951-XX With cellular modem	Test Units 88950-XX Without cellular modem
Generic BOM	88900-11: LNA Board: 88070-00-A+A GSM Antenna 88078 Sensor Board: 88030-10-E+A Main Board 88010-00-F+A UI Board 88020-00-E+A Cellular Modem HC25 Daughter Board 65763 Heatsink 88100-00 Connector Cable 88072-00	88900-01: LNA Board: 88070-00-A+A GSM Antenna 88078 Sensor Board: 88030-10-E+A Main Board 88010-00-F+A UI Board 88020-00-E+A Plastic Spacer to replace Daughter board & Heatsink
Hardware	Cellular modem HC25 card 65763 and heatsink 88100-00 are fitted on main board within the dedicated volume on the main board screened by shield cover 88091.	The cellular modem HC 25 daughter card and heatsink are omitted, and the internal screened environment is empty save for a plastic space filler; an identical screen cover 88091 is then replaced.
Hardware	A 90mm length of interconnecting 50 ohm screened cable 88072-00 is connected to the modem MMCX RF connector. The screened cable then leaves the screened environment and runs along the PCB top surface to the sensor board MMCX RF connector that is mounted underneath the GNSS LNA receiver. The sensor board provides microstrip traces that complete connection to the Cirocom V3 GSM pentaband antenna 88078-00, via spring pins mounted on the sensor card PCB	No interconnecting 90mm 50 ohm cable is required, supplied or fitted between screened area on main board and sensor board
Hardware	All variants have Cirocomm V3 pentaband GSM antenna 88078 mounted on the lower assembly	All variants have Cirocomm V3 pentaband GSM antenna 88078 mounted on the lower assembly
Hardware	Main Label on rear assembly 88084-11 carries appropriate FCC and IC identifiers:  FCC ID: JUP 616  IC: 1756A-616	Main Label on rear assembly 88014-01 carries appropriate FCC and IC identifiers :  FCC ID: JUP 615  IC: 1756A-615

Table 2 : GeoExplorer and Geo Collector Variants covered by certification tests on 88950-XX and 88951-XX

	<b>Configured Packout</b>	<b>Configured Receiver</b>	<b>Generic Packout</b>	<b>Generic Receiver</b>
<b>GeoXH 3.5G (English + 9 languages)</b>	<b>89100-00</b>	<b>88951-00</b>	<b>88960-11</b>	<b>88900-11</b>
<b>GeoXT 3.5G (English + 9 languages)</b>	<b>89100-20</b>	<b>88951-20</b>	<b>88960-11</b>	<b>88900-11</b>
<b>GeoXH 3.5G (English + 9 languages) for GeoCollector</b>	<b>89100-05</b>	<b>88951-05</b>	<b>88960-11</b>	<b>88900-11</b>
<b>GeoXT 3.5G (English + 9 languages) for GeoCollector</b>	<b>89100-25</b>	<b>88951-25</b>	<b>88960-11</b>	<b>88900-11</b>
<b>GeoXH (English + 9 languages)</b>	<b>89000-00</b>	<b>88950-00</b>	<b>88960-01</b>	<b>88900-01</b>
<b>GeoXT (English + 9 languages)</b>	<b>89000-20</b>	<b>88950-20</b>	<b>88960-01</b>	<b>88900-01</b>
<b>GeoXH (English + 9 languages) for GeoCollector</b>	<b>89000-05</b>	<b>88950-05</b>	<b>88960-01</b>	<b>88900-01</b>
<b>GeoXT (English + 9 languages) for GeoCollector</b>	<b>89000-25</b>	<b>88950-25</b>	<b>88960-01</b>	<b>88900-01</b>