

Huawei Technologies Co.,Ltd.

Statement

Federal Communications Commission Oakland Mills Road Columbia MD 21046 FCC ID: QISVTR-L09

Model: VTR-L09

2017-01-12

Subject: Statement for 5G Wi-Fi™

The information within this section of the Operational Description is to show compliance against the Software Security Requirements laid out within KDB 594280 D02 U-NII Device Security v01r02. The information below describes how we maintain the overall security measures and systems so that only:

- 1. Authenticated software is loaded and operating on the device
- 2. The device is not easily modified to operate with RF parameters outside of the authorization

General Description 1. Describe how any software/firmware update will The software/firmware update is bundled, as part of be obtained, downloaded, and installed. Software the handset software update, and the user or installer cannot modify the content. The installation that is accessed through manufacturer's website or device's management system, must describe the and/or update proceeds automatically once the user accepts to install/update the software/firmware. different levels of security. The Software/Firmware in the device, controls the 2. Describe all the radio frequency parameters that are modified by any software/firmware without any following RF parameters: hardware changes. Are these parameters in some 1. Transmitter Frequency way limited, such that, it will not exceed the 2. Transmitter Output Power authorized parameters? 3. Receiver Frequency 4. Channel Bandwidth 5. RSSI calibration The Software/Firmware controls the RF parameters listed above so as to comply with the specific set of regulatory limits in accordance with the FCC grants issued for this device. The RF parameters are limited to comply with FCC rules and requirements during calibration of the device in the factory. Security keys (certification certificates) are in place to ensure that these parameters cannot be access by the User and/or a 3rd party.

3. Describe in detail the authentication protocols	All software images are digitally signed with public
that are in place to ensure that the source of the	key cryptography. Images are signed by private key
software/firmware is legitimate. Describe in detail	stored in securely merged server, and verified by
how the software is protected against modification.	public key stored in a device when they are flashed
	into the device. Some SW images are verified with
A.D. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the public key when they are executed.
4. Describe in detail the verification protocols in	The same as General Description Q3
place to ensure that installed software/firmware is	
legitimate.	Coftware /firmsware is not an amounted
5. Describe in detail any encryption methods used to	Software/firmware is not encrypted.
support the use of legitimate software/firmware.	This handset will only energies as a master device in
6. For a device that can be configured as a master	This handset will only operate as a master device in
and client (with active or passive scanning), explain how the device ensures compliance for each mode?	hot spot mode and in Wi-Fi direct mode, both of which are limited to the 2.4GHz band on channels 1
In particular if the device acts as master in some	- 11 and 5GHz band on channels
band of operation and client in another; how is	36/40/44/48/149/153/157/161/165.
compliance ensured in each band of operation?	This device can only be configured as a client in all
compliance ensured in each band of operation:	UNII bands where it operates using passive scanning
	techniques.
3rd Party Access Control	techniques.
Explain if any third parties have the capability to	3rd party does not have the capability
operate a US sold device on any other regulatory	Sid party does not have the capability
domain, frequencies, or in any manner that is in	
violation of the certification.	
What prevents third parties from loading non-US	3rd party cannot access SW/FW
versions of the software/firmware on the device?	Sta party carrier access Sw/1 w
Describe in detail how the device is protected from	
"flashing" and the installation of third-party	
firmware such as DD-WRT.6	
3. For Certified Transmitter modular devices,	Not applicable – this is not a modular device
describe how the module grantee ensures that hosts	
manufactures fully comply with these software	
security requirements for U-NII devices. If the	
module is controlled through driver software loaded	
in the host, describe how the drivers are controlled	
and managed such that the modular transmitter	
parameters are not modified outside the grant of	
authorization.7	
SOFTWARE CONFIGURATION DESCRIPTION	
1. To whom is the UI accessible? (Professional	NA
installer, end user, other.)	
a) What parameters are viewable to the	NA
professional installer/end-user?6	
b) What parameters are accessible or modifiable to	NA
the professional installer?	
i) Are the parameters in some way limited, so that	NA
the installers will not enter parameters that exceed	
those authorized?	
ii) What controls exist that the user cannot operate	NA
the device outside its authorization in the U.S.?	
c) What configuration options are available to the	NA
end-user?	
i) Are the parameters in some way limited, so that	NA
the installers will not enter parameters that exceed	
those authorized?	

ii) What controls exist that the user cannot operate	NA
the device outside its authorization in the U.S.?	
d) Is the country code factory set? Can it be changed	NA
in the UI?	
i) If so, what controls exist to ensure that the device	NA
can only operate within its authorization in the U.S.?	
e) What are the default parameters when the device	NA
is restarted?	
2. Can the radio be configured in bridge or mesh	NA
mode? If yes, an attestation may be required.	
Further information is available in KDB Publication	
905462 D02.	
3. For a device that can be configured as a master	NA
and client (with active or passive scanning), if this is	
user configurable, describe what controls exist,	
within the UI, to ensure compliance for each mode.	
If the device acts as a master in some bands and	
client in others, how is this configured to ensure	
compliance?	
4. For a device that can be configured as different	NA
types of access points, such as point-to-point or	
point-to-multipoint, and use different types of	
antennas, describe what controls exist to ensure	
compliance with applicable limits and the proper	
antenna is used for each mode of operation. (See	
Section 15.407(a))	

Best Regards

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