

Huawei Technologies Co.,Ltd.

Statement

Federal Communications Commission Oakland Mills Road Columbia MD 21046 2018-08-16

Subject: Statement for 5G Wi-Fi[™]

Device FCC ID: QISAGS2-W19

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 v01r03. 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 updates for	The software /firmware update is bundled, as part
elements than can affect the device's RF parameters	of the tablet software update, and the user or
will be obtained, downloaded, validated and	installer cannot modify the content. The installation
installed. For software that is accessed through	and /or update proceeds automatically once the
manufacturer's website or device's management	user accepts to install/update the
system, describe the different levels of security as	software/firmware.
appropriate.	
2. Describe the RF parameters that are modified by	The software /firmware in the device, controls the
any software/firmware without any hardware	following RF parameters:
changes. Are these parameters in some way limited	1. Transmitter Frequency
such that any other software/firmware changes will	2. Transmitter Output Power
not allow the device to exceed the authorized RF	3. Receiver Frequency
characteristics?	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
	3 rd 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 RF-	key cryptography. Images are signed by private key
related software/firmware is valid. Describe in detail	stored in securely merged server, and verified by
how the RF-related software is protected against	public key stored in a device when they are flashed
modification.	into the device. Some SW images are verified with
	the public key when they are executed.
4. Describe in detail any encryption methods used to	software /firmware is not encrypted
support the use of legitimate RF-related	
software/firmware.	
5. For a device that can be configured as a master	This device can be configured as a client in all UNII
and client (with active or passive scanning), explain	bands where it operates using passive scanning
how the device ensures compliance for each mode?	techniques. And it can also work in direct mode.
In particular if the device acts as master in some	
band of operation and client in another; how is	7V
compliance ensured in each band of operation?	
3rd Party Access Control	
1. Explain if any third parties have the capability to	The 3 rd party does not have the capability
operate a U.Ssold device on any other regulatory	
domain, frequencies, or in any manner that may	
allow the device to operate in violation of the	
device's authorization if activated in the U.S.	~ N-F
2.Describe, if the device permits third-party	The 3 rd party cannot access SW/FW
software or firmware installation, what mechanisms	
are provided by the manufacturer to permit	
integration of such functions while ensuring that the	
RF parameters of the device cannot be operated	
outside its authorization for operation in the U.S. In	
the description include what controls and/or	
agreements are in place with providers of third-	
party functionality to ensure the devices' underlying	
RF parameters are unchanged and how the	
manufacturer verifies the functionality.	
3. For Certified Transmitter modular devices,	Not applicable –this is not a modular device
describe how the module grantee ensures that host	
manufacturers fully comply with these software	
security requirements for U-NII devices. If the	XX
module is controlled through driver software loaded	
in the host, describe how the drivers are controlled	
and managed such that the modular transmitter RF	X -1/2
parameters are not modified outside the grant of	
authorization.7	
OFTWARE CONFIGURATION DESCRIPTION	
1. Describe the user configurations permitted	NA
hrough the UI. If different levels of access are	
permitted for professional installers, system	
ntegrators or end-users, describe the differences.	
a) What parameters are viewable and configurable	NA
by different parties?	
	NA
b) What parameters are accessible or modifiable by	NA
b) What parameters are accessible or modifiable by the professional installer or system integrators?	
b) What parameters are accessible or modifiable by the professional installer or system integrators?)Are the parameters in some way limited, so that	NA
by different parties? b) What parameters are accessible or modifiable by the professional installer or system integrators? i)Are the parameters in some way limited, so that the installers will not enter parameters that exceed	
b) What parameters are accessible or modifiable by the professional installer or system integrators?)Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	NA
b) What parameters are accessible or modifiable by the professional installer or system integrators? i)Are the parameters in some way limited, so that	

c) What parameters are accessible or modifiable by the end-user?	NA
i) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	NA
ii) What controls exist that the user cannot operate the device outside its authorization in the U.S.?	NA
d) Is the country code factory set? Can it be changed in the UI?	NA
i)If it can be changed, what controls exist to ensure that the device can only operate within its authorization in the U.S.?	NA
e) What are the default parameters when the device is restarted?	NA
2. Can the radio be configured in bridge or mesh mode? If yes, an attestation may be required. Further information is available in KDB Publication 905462 D02.	NA
3. For a device that can be configured as a master 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?	NA
4.For a device that can be configured as different 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))	NA

Best Regards

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