SOFTWARE SECURITY INFORMATION

FCC ID: __XHWAGT418_____

Pursuant to:
FCC Part 15E 15.407(I) and KDB 594280 D02 U-NII Device Security v01r03/ IC RSS-247 clause 6.4(b).

The information within this section is to show compliance against the SW Security Requirements laid out within KDB 594280 D02 U-NII Device Security v01r03. The information below describes how to 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.**

SOFTWARE SECURITY DESCRIPTION		
	Requirement	**Answer**
General Description	1. Describe how any software/firmware updates for elements than can affect the device's RF parameters will be obtained, downloaded, validated and installed. For software that is accessed through manufacturer's website or device's management system, describe the different levels of security as appropriate.	The RF parameters are calibrated and pre-built in 5G module. End users can not modify.
	2. Describe the RF parameters that are modified by any software/firmware without any hardware changes. Are these parameters in some way limited such that any other software/firmware changes will not allow the device to exceed the authorized RF characteristics?	The RF parameters are calibrated and pre-built in 5G module. End users can not modify.
	3. Describe in detail the authentication protocols that are in place to ensure that the source of the RF-related software/firmware is valid. Describe in detail how the RF-related software is protected against modification.	The Boot ROM and Hardware are bundled in one vendor . RF FW downloaded can only be run until it is recognized and verified by Boot ROM in 5G module by its internal key.
	4. Describe in detail any encryption methods used to support the use of legitimate RF-related software/firmware.	The Boot ROM and Hardware are bundled in one vendor . RF FW downloaded can only be run until it is recognized and verified by Boot ROM by its internal key.
	5. For a device that can be configured as a master and client (with active or passive scanning), explain how the device ensures compliance for each mode? In particular if the device acts as master in some band of operation and client in another; how is compliance ensured in each band of operation?	the device only can work in client without radar detection capability.

	Requirement	Answer
Third Party Access Control	1. Explain if any third parties have the capability to operate a U.S./Canada -sold 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./Canada.	RF parameters are pre-built in the wifi module. End user doesn't have the access control to do the modification.
	2. Describe, if the device permits third-party 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./Canada. 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.	The device doesn't allow other 3-party software installation.
	3. For Certified Transmitter modular devices, describe how the module grantee ensures that host manufacturers 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 RF parameters are not modified outside the grant of authorization.	This application isn't a modular approval.

This section is required for devices which have a "User Interface" (UI) to configure the device in a manner that may impact the operational parameter. The operation description must address if the device supports any of the country code configurations or peer-peer mode communications discussed in KDB 594280 D01.

SOFTWARE CONFIGURATION DESCRIPTION		
	Requirement	**Answer**
USER CONFIGURATION GUIDE	1. Describe the user configurations permitted through the UI. If different levels of access are permitted for professional installers, system integrators or end-users, describe the differences.	The Enseo WiFi is automatically configured by the Enseo Cloud Management System. We do not require the installer, system integrator or end user to configure the WiFi.
	a) What parameters are viewable and configurable by different parties?	Through the Enseo Tv system, the installer can check if he WiFi has been activated.
	b) What parameters are accessible or modifiable by the professional installer or system integrators?	None
	(1) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	None
	(2) What controls exist that the user cannot operate the device outside its authorization in	No user controls on the device

Ref: KDB 594280 D02 U-NII Device Security v01r03/ IC RSS-247 clause 6.4(b).

	the U.S./Canada?	
	c) What parameters are accessible or modifiable by the end-user?	No user accessible parameters
	(1) Are the parameters in some way limited, so that the user or installers will not enter parameters that exceed those authorized?	No user accessible parameters
	(2) What controls exist so that the user cannot operate the device outside its authorization in the U.S./Canada?	No user interface exposed to the user
	d) Is the country code factory set? Can it be changed in the UI?	Yes, the country code is factory set, and there are no user accessible change parameters
	(1) If it can be changed, what controls exist to ensure that the device can only operate within its authorization in the U.S./Canada?	No user controls on the device, only sell in the U.S.
	e) What are the default parameters when the device is restarted?	WiFi will be reconfigured automatically by the host device with settings applied by the Enseo Cloud management system.
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.		No
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?		The device only can work in client without radar detection capability.
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)).		Those features are not available.

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Date: **2018/08/15**   **Signature:**   _Roy Rayn_ _____