

Edimax Technology Co Ltd

Software Security Declaration

FCC ID : NDD9578112209

Pursuant to:

FCC Part 15E 15.407(I) and KDB 594280 D02 UNII Device Security v01r03 / IC RSS-247 issue 2 article 6.4(4).

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		
General Description	1. Describe how any software/firmware updates for elements that 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.	<i>The device driver can be download from edimax website and installed by end user. This driver only can be configured as a client and there is a country code regulatory parameter to limit user to operate the device outside its authorization in the U.S.. End-use cannot access that parameter. The RF parameters cannot be modified by software.</i>
	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?	<i>The RF parameters cannot be modified by software.</i>
	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.	<i>No. The RF Parameters is put in read-only partition of DUT's flash and is only installed by the factory. RF parameters including frequency of operation, power settings, modulation type, antenna types or country code settings will be locked in this partition.</i>
	4. Describe in detail any encryption methods used	<i>No encryption, but wifi driver is a</i>

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	to support the use of legitimate RF-related software/firmware.	<i>binary code file.</i>
	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?	<i>The device only can be configured as a client. And There is a country code regulatory parameter to limit product to operate the device under its authorization in the U.S.. This regulatory parameter would define which channel would be available to operate in client to meet UNII requirements.</i>

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SOFTWARE SECURITY DESCRIPTION		
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.	<i>There is a country code regulatory parameter to limit user to operate the device outside its authorization in the U.S.. End-use cannot access that parameter.</i>
	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. <i>Note : See, for example, www.XXXXX.com/</i>	<i>The RF Parameters is put in read-only partition of DUT's flash and there is not any installation process. RF parameters including frequency of operation, power settings, modulation type, antenna types or country code settings will be locked in this partition. End-user cannot access them.</i>
	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. <i>Note that Certified Transmitter Modules must have sufficient level of security to ensure that when integrated into a permissible host the device's RF parameters are not modified outside those approved in the grant of authorization. (See, KDB Publication 99639). This requirement includes any driver software related to RF output that may be installed in the host, as well as, any third-party software that may be permitted to control the module. A full description of the process for managing this should be included in the filing.</i>	<i>This is not a certified transmitter module device.</i>

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SOFTWARE SECURITY DESCRIPTION		
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.	
	a. What parameters are viewable and configurable by different parties? <i>Note: The specific parameters of interest for this purpose are those that may impact the compliance of the device (which would be those parameters determining the RF output of the device). These typically include frequency of operation, power settings, antenna types, DFS settings, receiver thresholds, or country code settings which indirectly programs the operational parameters.</i>	<i>Link Rate, Signal Strength, WiFi Security method and channel information.</i>
	b. What parameters are accessible or modifiable by the professional installer or system integrators?	<i>N/A, as this is a consumer device.</i>
	(1) Are the parameters in some way limited, so that the installers will not enter parameters that exceed those authorized?	<i>Yes, all parameters are limited by SW settings which are approved by FCC regulatory.</i>
	(2) What controls exist that the user cannot operate the device outside its authorization in the U.S./Canada?	<i>All parameters are FCC approved and limited by SW settings.</i>
	c. What parameters are accessible or modifiable by the end-user?	<i>The RF Parameters is put in read-only partition of DUT's flash and there is not any installation process. RF parameters including frequency of operation, power settings, modulation type, antenna types or country code settings will be locked in this partition. End-user cannot access them.</i>
	(1) Are the parameters in some way limited, so that the user or installers will not enter parameters that exceed those authorized?	<i>Yes, all parameters are limited by SW settings which are approved by FCC regulatory.</i>

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	(2) What controls exist so that the user cannot operate the device outside its authorization in the U.S./Canada?	<i>WiFi Security method, WLAN mode and channel selection.</i>
	d. Is the country code factory set? Can it be changed in the UI?	<i>All parameters are FCC approved and limited by SW settings.</i>
	(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?	<i>The country code cannot be changed in UI.</i>
	e. What are the default parameters when the device is restarted?	<i>The device will get a default (approved) Tx channel and power level based on factory country setting.</i>

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SOFTWARE SECURITY DESCRIPTION		
USER CONFIGURATION GUIDE	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?	<i>The device only can be configured as a client. And there is a country code regulatory parameter to limit product to operate the device under its authorization in the U.S.. This regulatory parameter would define which channel would be available to operate in client to meet UNII requirements.</i>
	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))	<i>N/A, as not supported by this device.</i>

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