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March 9, 2017

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Class III Permissive Change notice
FCC ID: PGRBGW210

To whom it may concern:

This Class III Permissive Change notification is a consequence of an upgradable software enhancement for the BGW210 family product line to support UNII-2/DFS bands with Mesh Networking features. These features are described in detail in the operational descriptions included with this submittal. Furthermore, additional power settings are now being supported when using multiple stream (Nss>1) modes as indicted in the updated test report(s).

This change will be implemented via an imbedded control software update. As outlined in the original SDR operational descriptions the software versions are identified using a ARRIS <i.j.khldmm_n.o> format or a AT&T <i.j.kh> format. For the ARRIS <i.j.khldmm_n.o> format the i.j.khl segment prescribes a product software revision control branch. The dmm segment corresponds to a specific software revision control change list on that branch. The n.o corresponds to a specific configuration. For the <i.j.kh> AT&T format the i.j.kh segment prescribes a product software revision. The value of "i" reflects the platform/branch, "j" reflects the major/feature release, and "kh" reflects the minor revision (i.e. bug fixes). Therefore, for every software build that is released, ARRIS can associate the software version string to a specific change list and configuration setting.   This allows us to know and control what software changes and configuration are incorporated into a specific software version related to the radio parameters that will be approved. Any software changes and configuration that affect a future class III permissive change could then be determined by the specific software change list and configuration and thus can be determined via the software version and configuration displayed in the web UI. The service provider determines when the units in service will be upgraded from one software version to another related to the radio parameters which has been approved and released.

The Software versions which transition between grants are has follows…
- The initial non-DFS FCC certification issued on 12/1/16 was released under SW Ver. 9.2.04d21 (ARRIS) or SW Ver. 1.0.17 (AT&T).

- The SW version that will be released supporting the UNII-2/DFS and mesh networking modes under this class III permissive change will be released under SW Ver. 9.2.04d30 (ARRIS) or SW Ver 1.0.27 (AT&T).

** Any versions between those listed above represent bug fixes, system improvements, or customer variants that do not affect the RF characteristics or firmware/software security implementations.

There is no change to the Software, Distribution and Security Documentation (SDS) under the security descriptions for preventing the alteration of radio parameters in the original SDR approval.

Sincerely,

Mark Rieger
Principal Hardware Engineer
Regulatory compliance and conformance

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