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PureWave Networks Quantum 1000 Part 90 Subpart Z Contention Based Protocol

This paper describes the application for restricted contention based protocol (CBP) for the PureWave Networks Quantum 1000 product line.

The Quantum 1000 base station uses WiMAX time domain division (TDD) scheduling protocol in accordance with IEEE 802.16e. The scheduling protocol applies to both base station and customer premise equipment (CPE) transmitters.

The FCC mentions the WiMAX technology as an example of restricted CBP in item 34 of WT Docket No. 05-96 with MO&O Adopted May 22, 2007 and released June 7, 2007:

“34. Under the Commission’s rules, contention-based protocols can be broadly categorized as either “unrestricted” or “restricted”. (...) Restricted contention protocols can prevent interference only with other devices incorporating the same protocol. WiMAX, with its scheduling protocol, currently stands as the main example of a restricted contention technology. Different WiMAX systems can be coordinated to avoid interfering with each other, thus providing each WiMAX device a “reasonable opportunity to operate”.

PureWave Networks certifies the Quantum 1000 product operates under WiMAX protocol and therefore meets the requirements for restricted CBP.

Mark Mendonca
Director RF Engineering

A handwritten signature in black ink, appearing to read "Mark Mendonca", followed by the date "1 FEB 10" written in a similar style.