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October 11, 2007

To: Mr. Steven Dayhoff
Steven.Dayhoff@fcc.gov
FCC Application
Processing Branch

Applicant: Redline Communications Inc
FCC ID: QC8-AN100UA
Form 731 Confirmation Number: EA549096
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Correspondence Reference Number: 33937

Dear Mr. Dayhoff,

Thank you for your letter dated October 09, 2007 in regards to our application for the lower 25 MHz of the band (3650-3675 MHz-Part 90 Subpart Z for the Tx and Part 15 for the Rx).

Q-i. Please explain what "WiMAX coordination among separate providers" means. Provide the technical details on the network impact and how is it done.

A-i: "WiMAX coordination among separate providers" implies a number of things, which include: Special (site), Frequency, and time (Tx scheduling) coordination.

Special coordination

Assumes an adequate distance between BSs of separate operators such that the interference from one operator's BS or SSs on the other kept to a minimum. The effect of adding additional operator networks would thus result in a reduction in CINR which WiMAX addresses by adapting its modulation to a lower more robust level.

Frequency coordination

Interference, can also be mitigated by coordination of frequencies such that co-channels sectors are designed to face in opposite directions. These are standard practices employed during normal frequency planning exercises but would be extended across more than one operator such as to share a common frequency plan.

Time (Tx scheduling) coordination

On WiMAX TDD systems frequency coordination is further facilitated through a use of a common GPS based Tx time synchronization signal. Through the coordination of various WiMAX parameters such as OFDM frame duration, guard intervals, channel size, and BS Tx power. By agreeing on a common set of parameters and a similar frequency plan interference can be mitigated to acceptable levels such that each operator would be able to deliver acceptable performance.

Q-ii. You state that anyone who buys our system only can share it with others. We understand this is WiMax protocol, but give details of how this is accomplished.

A-ii: All CPEs only transmit initially during a planned contention period to get registered and then once registered they only transmit during the timeframe when they are specifically scheduled to transmit by the base station

You can contact the undersigned if you have any questions.



Sincerely Yours,

A handwritten signature in black ink, appearing to read 'MFawzy', with a long horizontal stroke extending to the right.

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