

IEEE 802.17 Maintenance Request 0078

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Standard 802.17-2004 Page 254 Subclause 10.4.2.3 Figure _____ Table _____

Surname Sood Given Name Mohit

Perceived Problem [If more space is needed, please provide an additional file, preferably as plain text.]

Logical error in ResetStqWatermarks() routine in Section 10.4.2.3. This routine resets stqHighWatermark to stqSize. As a result, in the routine RecordStqWatermarks(), stqHighWatermark never gets updated to the highest measured occupancy of STQ. It will always remain at stqSize (maximum size of STQ).

Proposed Remedy [If more space is needed, please provide an additional file, preferably as plain text.]

stqHighWatermark should either be reset to 'zero' in ResetStqWatermarks() routine in Section 10.4.2.3.

Rationale For Remedy [If more space is needed, please provide an additional file, preferably as plain text.]

RecordStqWatermarks() updates stqHighWatermark by calculating the maximum between previous value of stqHighWatermark and stqDepth (current occupancy of STQ). If stqHighWatermark is reset to stqDepth or 'zero', then stqHighWatermark will not be fixed at stqSize, but will represent the highest measured occupancy of STQ.

Remedy's Effect On Existing Equipment [If more space is needed, provide an additional file, preferably as plain text.]

Currently use of stqHighWatermark is not specified in the standard. However, whoever uses this value (say client), would see a correctly measured value of stqHighWatermark.

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