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| IEEE 802.1 REVISION REQUEST 0137 |
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DATE: 8 May 2014
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REQUESTED REVISION:

STANDARD: IEEE 802.1Q-2011
CLAUSE NUMBER: 32; 33
CLAUSE TITLE: Congestion notification protocol; Encoding of congestion notification
Protocol Data Units

RATIONALE FOR REVISION:

There is an inconsistency regarding the polarity of `cnmQOffset` that can cause interoperability problems.

Table 32-4, says that `cnmQOffset` is the inverse of `cpQOffset`. In that case, `cnmQOffset` would be positive when the queue is over the set point.

33.4.5 says that `cnmQOffset` is the same as `cpQOffset`. As for `cpQOffset`, a negative value indicates congestion.

In 32.14.4, a Reaction Point is enabled only if `cnmQOffset` is negative (agrees with 33.4.5, not Table 32-4).

PROPOSED REVISION TEXT:

Either Table 32-4 or both 33.4.5 and 32.14.4 need to change. I'm not sure at this point which is best as I'm aware of at least one implementation that follows each. Discussion is needed on which correction is less disruptive.

IMPACT ON EXISTING NETWORKS:

The current situation prevents interoperability. A change will mean some devices need to make a change to comply but will resolve the interoperability issue.

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| Please attach supporting material, if any |
| Submit to:- Tony Jeffree, Chair IEEE 802.1 |
| and copy:- Glenn Parsons, Vice-Chair IEEE 802.1 |
| E-Mail: stds-802-1-maint-req@ieee.org |
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| +----- For official 802.1 use -----+ |
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