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| 8802-3/802.3 REVISION REQUEST 1282 |
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DATE: 22nd July, 2015
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REQUESTED REVISION:
STANDARD: 802.3-2012
CLAUSE NUMBER: 76
CLAUSE TITLE: 76.3.2.5.6 Counters

PROPOSED REVISION TEXT:

- 1) Change type definition for IdleBlockCount variable from >>32 bit unsigned<< to >>32-bit signed integer<< in 76.3.2.5.6.
- 2) Add >>IdleBlockCount <= 0<< assignment in the INIT state in Figure 76-16.

RATIONALE FOR REVISION:

- 1) Variable IdleBlockCount is set to value >>-1<< in Figure 76-16 in the state RECEIVE_DATA_BLOCK, which would typically translate to the value of 0xFFFFFFFF for an unsigned integer. Additionally, given implementation specific character of unsigned integer overflow, there is no guarantee that operation >>IdleBlockCount++<< in the RECEIVE_CTRL_BLOCK state in the same figure would produce the expected value of 0. To correctly represent expected range of values [-1,0,1,...], the variable IdleBlockCount needs to be of a signed integer type.
- 2) Variable IdleBlockCount is not initialized explicitly within its definition or the state diagram in Figure 76-16.

IMPACT ON EXISTING NETWORKS: None, it is just a change in the definition of the variable type.

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| Please attach supporting material, if any |
| Submit to:- David Law, Chair IEEE 802.3 |
| and copy:- Adam Healey, Vice-Chair IEEE 802.3 |
| At:- E-Mail: stds-802-3-maint-req@ieee.org |
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| http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1282 |
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