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| 8802-3/802.3 REVISION REQUEST 1119 |
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DATE: 15th Nov, 2003
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REQUESTED REVISION:
STANDARD: IEEE Std. 802.3af-2003
CLAUSE NUMBER: 33.2.7.2
CLAUSE TITLE: PSE classification

PROPOSED REVISION TEXT:

Change paragraph 33.2.7.2 line 24 draft 4.3 from:

"The PSE shall provide V_{Class} between 15.5 and 20.5 volts, limited to 100mA or less to the PI."

to:

"The PSE shall provide V_{Class} between 15.5 and 20.5 volts, limited to 100mA or less to the PI.

"Measurement of the 100mA current limitation is to be taken after 1ms to ignore initial transients."

For details see attached draft.

RATIONALE FOR REVISION:

During short circuit tests and inrush current test in the IEEE Std 802.3af-2003 specification we defined that the measurement of the current will be taken after 1ms in order to ignore transient effects (see table 33-5 items 5 and 10). In the classification short circuit current limit we didn't specify when we should take the measurements. If the peak current is above 100mA and the steady state is below 100ma then according to the current text, the test is "fail" but we know that it is not true since we allow for overshoot at the start of the short as we did in other short circuit conditions in the standard.

IMPACT ON EXISTING NETWORKS:

No Impact.

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| Please attach supporting material, if any |
| Submit to:- Bob Grow, Chair IEEE 802.3 |
| E-Mail: Bob.Grow@intel.com |
|
| +----- For official 802.3 use -----+ |
| REV REQ NUMBER: 1119 |
| DATE RECEIVED: 15th Nov, 2003 |
| EDITORIAL/~~TECHNICAL~~ |
| ACCEPTED/DENIED |
| BALLOT REQ'D YES/~~NO~~ |
| COMMENTS: 05-Jul-04 Ver: D1.2 Status: B |
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| For information about this Revision Request see - |
| http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1119 |
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33.2.7.2 PSE classification

Change the 1st paragraph of subclause 33.2.7.2 as follows:

The PSE shall provide V_{Class} between 15.5 and 20.5 volts, limited to 100 mA or less to the PI. Measurement of the 100mA current limitation is to be taken after 1ms to ignore initial transients. Polarity shall be the same as defined for V_{Port} in 33.2.2 and timing specifications shall be as defined by T_{pdc} in Table 33–5. The PSE shall measure I_{Class} and classify the PD based on the observed current according to Table 33–4. If the measured I_{Class} is equal to or greater than 51mA, the PSE shall classify the PD as Class 0.

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