DATE: 30th March, 2005
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REQUESTED REVISION:
STANDARD: IEEE Std. 802.3af-2003
CLAUSE NUMBER: 33C.1.4
CLAUSE TITLE: Capacitive load for inrush current test

PROPOSED REVISION TEXT:

Paragraph 33C.1.4, the text after figure 33C.3.

Change from "3. The capacitive load value is chosen to emulate a short-circuit condition for more than 75ms"

To "3. The capacitive load value Ctest is chosen to emulate inrush current during a startup mode condition. Ctest is chosen larger than that allowable for Cpd to ensure the PSE stays in Inrush current limit for >75ms or until Tlim is reached. Smaller Ctest capacitor values can be used as long as Ctest>Iinrush*Tlim/Vport.

Figure 33C.3:
Change Cpd to Ctest.

RATIONALE FOR REVISION:

33C.1.4 is meant to illustrate how to measure the parameters Inrush and its time duration (See item (a) in the beginning of paragraph 33C.1.4.) and is required to successfully support the startup mode where the PSE is driving a capacitive load, Cpd.

The figure showing Ctest=1000uF (which was Cpd=1000uF) in the example causes confusion with the specified maximum Cpd which is 180uF per 33.3.5.3.

IMPACT ON EXISTING NETWORKS:

No impact on current hardware. It is all informative, at the informative section.
| 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: 1165 |
| DATE RECEIVED: 30th March, 2005 |
| EDITORIAL/TECHNICAL |
| ACCEPTED/DENIED |
| BALLOT REQ'D YES/NO |
| COMMENTS: 16-Nov-05 Ver: D1.2 Status: B |
| For information about this Revision Request see - |
| http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1165 |
PSE at Startup mode

Low Z current meter 1 Ω or less

Test Load

10V or 30V

Ctest

A possible example of the test load above

BB

Csig 0.1μF +/-10%

24.9K +/-1%

S1

F.F

Set

Vz

S3

41.2K +/-1%

Ctest 1000μF (Example)

Vcc

Reset

R1

R2

Vref

S1

PD

PSE

AA

Iport

Vport

1.165 - 3

ISO/IEC 8802-3/IEEE Std.802.3 Revision Request. Subject to change.