

8802-3/802.3 REVISION REQUEST

DATE: 03/25/2015
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REQUESTED REVISION: To revise section 33.3.7.1 and 33.3.7.3 to include below mentioned changes

STANDARD: IEEE Std 802.3-2012

CLAUSE NUMBER: 33

CLAUSE TITLE: Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)

PROPOSED REVISION TEXT:

Request the following text be added as note to section 33.4.1

Add the following to section 33.3.7.3

"PDs shall not draw more than the maximum current allowed by a PSE during inrush as outlined in section 33.2.7.5"

Change 2nd paragraph of Section 33.3.7.1 as follows (change shown in underline)

"The PD shall not turn on until a voltage greater than V_{off} and less than or equal to V_{on}"

RATIONALE FOR REVISION:

PDs in the field turn on their DC-DC load during inrush. This leads to PD cap not charging up fully (even if PD cap is <180uF PSE is following inrush rules from Section 33.2.7.5). This may lead to operational problems after inrush. There is a V_{off} requirement in PD table 33-18 to ensure power supply remains turned off for V<30V, but customers seem to read this as applicable only "after power on" not during "power on" - hence either turn on their DC-DC during inrush causing problems.

IMPACT ON EXISTING NETWORKS:

Nothing.

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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DATE RECEIVED: 25 March, 2015
EDITORIAL/TECHNICAL
ACCEPTED/DENIED
BALLOT REQ'D YES/NO
COMMENTS:

For information about this Revision Request see -
http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1277

