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2 | 8802-3/802.3 REVISION REQUEST |
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4 DATE: 09/10/2017
5 NAME: Lennart Yseboodt
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8
9 REQUESTED REVISION: next revision / bring into P802.3bt
10 STANDARD: 802.3-2015
11 CLAUSE NUMBER: 33
12 CLAUSE TITLE: Data Terminal Equipment (DTE) Power via Media
13 Dependent Interface (MDI)
14 PROPOSED REVISION TEXT:
15 In subclause 33.6.3.3 (variables, DLL classification), change the
16 "Values:0 through 255" to "Values 1 through 255" for the following:
17 - MirroredPDRequestedPowerValue
18 - MirroredPSEAllocatedPowerValue
19 - PDRequestedPowerValueEcho
20 - PDRequestedPowerValue (here change to "0 through PD_DLLMAX_VALUE")
21 - PSEAllocatedPowerValue
22 - PSEAllocatedPowerValueEcho
23
24 RATIONALE FOR REVISION:
25 In 802.3-2015, in Clause 79, the permitted value range for the PD
26 requested power and PSE allocated power value fields ranged 1 to 255.
27
28 By mistake, in Clause 33 the permitted range started at zero. The value
29 of zero is undefined in DLL.
30
31 In 802.3bt we are changing Clause 79 to permit value zero, this is
32 required to support dual-signature power negotiation. However that, in
33 combination with the current value ranges in 33.6.3.3 makes zero a legal
34 value for legacy devices. Since this is undefined, we must prevent this.
35 The proposed solution is to restrict the value range in 33.6.3.3.
36
37 In summary, we are moving a restriction from Clause 79 to 33.6.3.3, the
38 net result is an identical permitted value range for legacy devices.
39
40 Via a regular 802.3bt comment I will add a pointer in Clause 79 that
41 warns people that Type 1 and Type 2 devices have further restrictions on
42 the fields PD requested power value and PSE allocated power value.
43
44 IMPACT ON EXISTING NETWORKS:
45 None.
46

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2 | Please attach supporting material, if any
3 | Submit to:- David Law, Chair IEEE 802.3
4 | and copy:- Adam Healey, Vice-Chair IEEE 802.3
5 |
6 | At:- E-Mail: stds-802-3-maint-req@ieee.org
7 |
8 | +----- For official 802.3 use -----+
9 | | REV REQ NUMBER: 1312
10 | | DATE RECEIVED: 9th Oct, 2017
11 | | EDITORIAL/TECHNICAL
12 | | ACCEPTED/DENIED
13 | | BALLOT REQ'D YES/NO
14 | | COMMENTS:
15 +-----+
16 | For information about this Revision Request see -
17 | http://www.ieee802.org/3/maint/requests/revision\_history.html#REQ1312
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