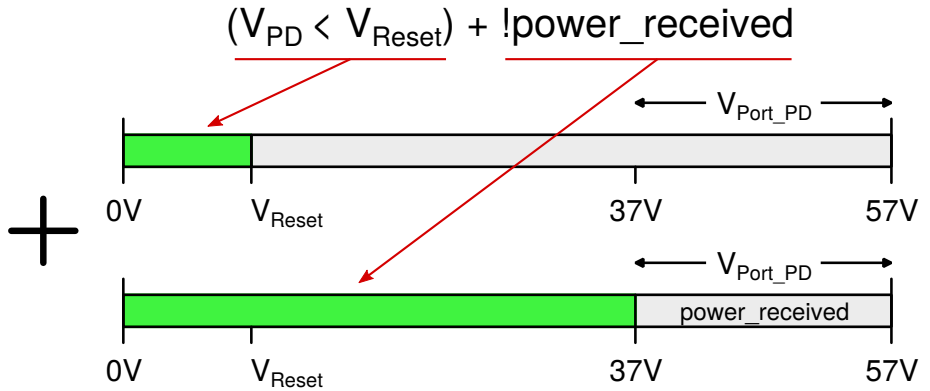
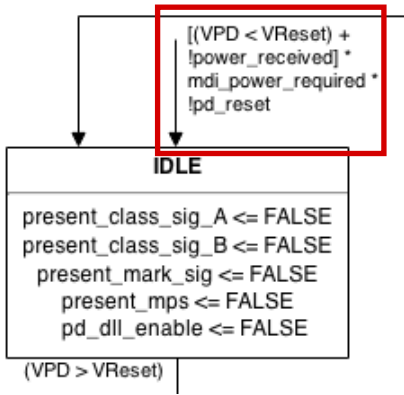


```

1  +-----+
2  |                8802-3/802.3 REVISION REQUEST                |
3  +-----+
4  DATE: 27/01/2016
5  NAME: Lennart Yseboodt
6  COMPANY/AFFILIATION: Philips / Philips
7  E-MAIL: lennart.yseboodt@philips.com
8
9  REQUESTED REVISION:
10 STANDARD: 802.3-2015
11 CLAUSE NUMBER: 33
12 CLAUSE TITLE: Data Terminal Equipment (DTE) Power via Media
13                Dependent Interface (MDI)
14
15 PROPOSED REVISION TEXT:
16
17 This MR pertains to Figure 33-16, page 657, the PD state machine.
18 Change the entry arc condition into IDLE to read:
19 (Vpd < Vreset) * mdi_power_required * !pd_reset
20
21 RATIONALE FOR REVISION:
22
23 The entry arc into IDLE reads "[ (Vpd < Vreset) + !power_received ] *
24 mdi_power_required * !pd_reset"
25 The effect is that at ANY voltage below Vport_pd min, this condition
26 will apply and reset the state machine to IDLE.
27 The intent is to allow a global override to reset the SM to IDLE
28 when the PI voltage drops below Vreset, but this has been
29 done incorrectly.
30 See comment #213 against D1.5 for P802.3bt
31
32 IMPACT ON EXISTING NETWORKS:
33
34 None.
35
36
37 +-----+
38 |Please attach supporting material, if any                       |
39 |Submit to:-   David Law, Chair IEEE 802.3                     |
40 |and copy:-    Adam Healey, Vice-Chair IEEE 802.3             |
41 |                                                      |
42 |At:-          E-Mail: stds-802-3-maint-req@ieee.org          |
43 |                                                      |
44 |                +----- For official 802.3 use -----+    |
45 |                | REV REQ NUMBER: 1294                      |    |
46 |                | DATE RECEIVED: 27th January 2016         |    |
47 |                | EDITORIAL/TECHNICAL                      |    |
48 |                | ACCEPTED/DENIED                          |    |
49 |                | BALLOT REQ'D    YES/NO                    |    |
50 |                | COMMENTS:                                  |    |
51 +-----+
52 | For information about this Revision Request see -           |
53 |http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1294 |
54 +-----+

```



33.3.3.1 Conventions

The notation used in the state diagram follows the conventions of state diagrams as described in 21.5.

24
25
26
27

21.5.3 State transitions

Any open arrow (an arrow with no source block) represents a global transition. Global transitions are evaluated continuously whenever any state is evaluating its exit conditions. When a global transition becomes true, it supersedes all other transitions, including UCT, returning control to the block pointed to by the open arrow.

In other words: unless a PD is powered, the SM will continuously flip back to the IDLE state. This entry arrow into IDLE has existed since 802.3at