

Comment:

Draft D3.1

The following case is not covered by the state machine or by the text:

A type 2 PSE is connected to Type 1 PD

The PSE is doing 2 fingers.

(PSE can do:

- a) 2 fingers (covered by the state machine) or
- b) 1 finger + DLL (covered by the state machine) or
- c) 2 fingers + DLL (NOT covered by the state machine )

The first reading is 0,1,2 or 3 (it is Type 1 PD) but the 2nd reading is something else (it could be different due to the fact that the PD type 1 was not required to return the same class when it gets consecutive classification events)

So what to do in this case?

The logical thing to do is to ignore 2nd reading result so we are backward compatible with PD type 1.

SuggestedRemedy:

Duplicate the state machine from A to C and make the relevant changes as described in the "revised figure 33-10"

In addition add the following text after line 35 page 35:

"A Type 2 PSE that is using two event classifications and detects Type 1 PD, may classify the PD according to the result of the first class event only."

-----

**After reviewing again the comment and the remedy, there is simpler remedy (instead of duplicating the procedure from input A to output C with the relevant changes).**

Revised SuggestedRemedy:

1. Change the exit from "CLASS\_EV1" state to "MARK\_EV1" state from:

"tcle1\_timer\_done\*mr\_pd\_class\_detected=4"

To:

"tcle1\_timer\_done\*mr\_pd\_class\_detected<=4"

(As a result: if mr\_pd\_class\_detected<4 then it has its own root with single classification even.

If mr\_pd\_class\_detected<=4 i.e. you must do 2 classification event in case of detecting class 4 or if you detect class 0,1,2, or 3 and you want to do 2 fingers you may do so.)

2. In addition add the following text after line 35 page 35:  
"A Type 2 PSE that is using two event classifications and detects Type 1 PD, may classify the PD according to the result of the first class event only."