# Changing assigned Class through DLL v101

#### Info (not part of baseline)

In the legacy state diagram, the PD would move from the MDI\_POWER1 to the MDI\_POWER2 state if it started out in Class 3 and successfully increased its power budget through LLDP. The legacy SD enforces that only PDs that request Class 4 are able to move to a higher power state. Which is correct....

This currently does not work: changes through DLL are not reflected in the pd\_max\_power variable. This baseline implements that same functionality for the Type 3/4 state diagrams. For now focus is on single-signature, once this is stable, a sync with the dual-signature state diagrams needs to happen.

# **PSE** section

### 33.2.5.9 Type 3 and Type 4 variables

#### Add variable as follows:

pse\_power\_update

A variable that is set when the PSEAllocatedPowerValue in the DLL state diagram in Figure 33-46 has been updated.

Values:

FALSE: The value of PSEAllocatedPowerValue has not changed.

TRUE: The value of PSEAllocatedPowerValue has changed.

# 33.2.5.11 Type 3 and Type 4 functions

#### Add function as follows:

do\_update\_pd\_allocated\_pwr

A function that updates the pd\_allocated\_value based on the value of PSEAllocatedPowerValue as defined in Table 33–14. This function returns the following variable:

pd\_allocated\_pwr: this variable indicates the Class assigned to the PD. Values:

- 1: Class 1
- 2: Class 2
- 3: Class 3
- 4: Class 4
- 5: Class 5
- 6: Class 6
- 7: Class 7
- 8: Class 8

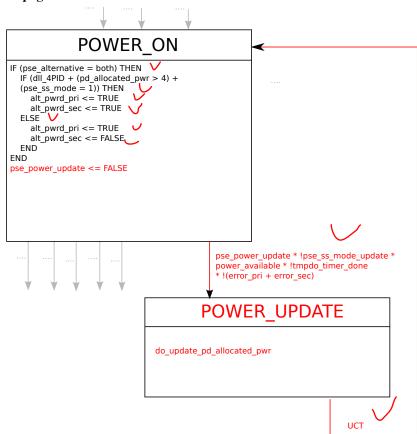
for

### 33.2.5.12 Type 3 and Type 4 state diagrams

Change Figure 33-15 on page 95 as follows:

I guess it doesn't changes that in our project the PSE has to issue all necessary fingers regardless of LLDP capability. Please confirm.

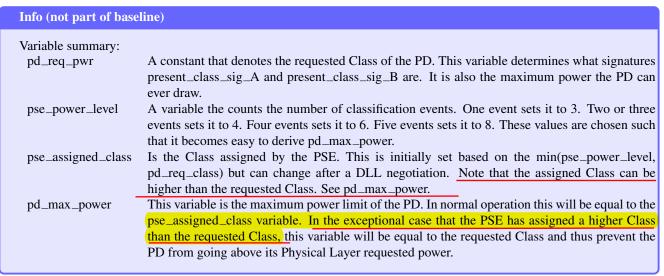
Correct, this is unchanged.



#### PD section

#### 33.3.3.8 Type 3 and Type 4 single-signature variables

machine variable and has priority over text that doesnt belong to the state



Add the following variables: In the exceptional case: Do you mean to extended power?

pse\_assigned\_class

A variable that indicates the assigned Class. This variable is initially set by Physical Layer classification and may be updated through DLL classification.

Values:

1: Class 1
2: Class 2
3: Class 3

This is true, but is already handled by a SHALL, why do we keep repeating this? Yair: Otherwise the intent will not be clear. This is state

- 5: Class 5
- 6: Class 6
- 7: Class 7
- 8: Class 8

#### pd\_power\_update

A variable that is set when the PDMaxPowerValue in the DLL state diagram in Figure 33–49 has been updated. Values:

FALSE: The value of PDMaxPowerValue has not changed.

TRUE: The value of PDMaxPowerValue has changed.

### 33.3.3.10 Type 3 and Type 4 single-signature functions

#### Add the following function:

 $do\_update\_pse\_assigned\_class$ 

A function that updates the pse\_assigned\_class based on the value of PDMaxPowerValue as defined in Table 33–24. This function returns the following variable:

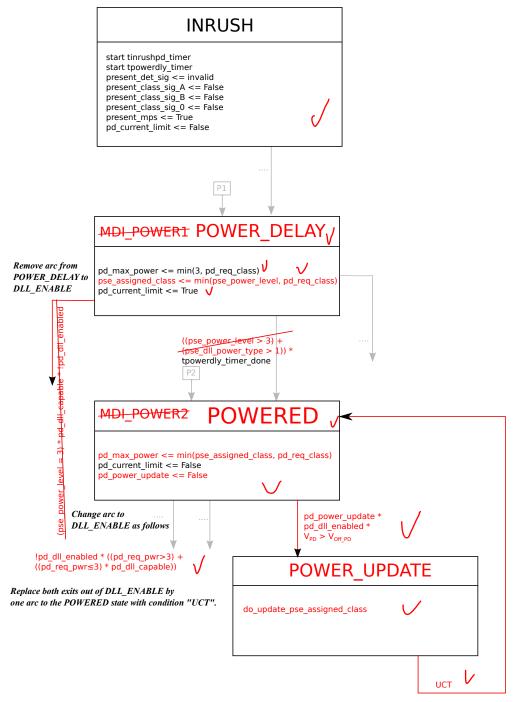
pse\_assigned\_class: this variable indicates the Class assigned to the PD.

Values:

- 1: Class 1
- 2: Class 2
- 3: Class 3
- 4: Class 4
- 5: Class 5
- 6: Class 6
- 7: Class 7
- 8: Class 8

### 33.3.3.11 Type 3 and Type 4 single-signature PD state diagrams

#### Change Figure 33–32 as follows:



### **Info** (not part of baseline)

The following non-normative text is added to explain that it is not permitted to draw more power than the requested Class. The actual requirement is in the PD state diagram, as well as on D2.2, page 153, line 47.

#### 33.3.6 PD classifications

#### Make changes to the text as follows:

After a successful DLL classification, the assigned Class changes depending on the value of PDMaxPowerValue variable, as defined in Table 33–24. A PD may be able to get a Class assigned that is higher than its requested Class, however it is not permitted to draw more power than what corresponds to the PDs requested Class.

Why to allow it in the text???

Fair point, I will change/delete it.

# 33.5.3.6 Power control S state diagrams

Change Figure 33–46 as follows:

