

**PSE Autoclass SD**  
**(New Figure, 33.2.5.12)**

**Define new variable (33.2.5.9):**

MirroredPDAutoclassRequest

A control variable output by the PSE power control state diagram that indicates whether the PSE has received an Autoclass measurement request from the PD via the Data Link Layer. See 33.5.

Values:

- FALSE: The PSE has not received an Autoclass measurement request from PD.
- TRUE: The PSE has received an Autoclass measurement request from PD.

**Define new timer (33.2.5.10):**

tauto\_pse1\_timer

A timer used to delay Autoclass power measurement following transition into state POWER\_ON; see  $T_{\text{AUTO\_PSE1}}$  in 33.2.7.3.

tauto\_pse2\_timer

A timer used to limit Autoclass power measurement following transition into state POWER\_ON; see  $T_{\text{AUTO\_PSE2}}$  in 33.2.7.3.

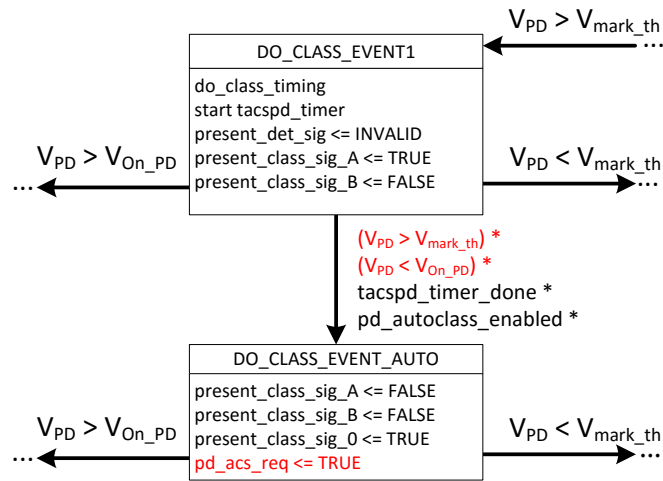
**Define new function (33.2.5.11):**

do\_autoclass\_measure

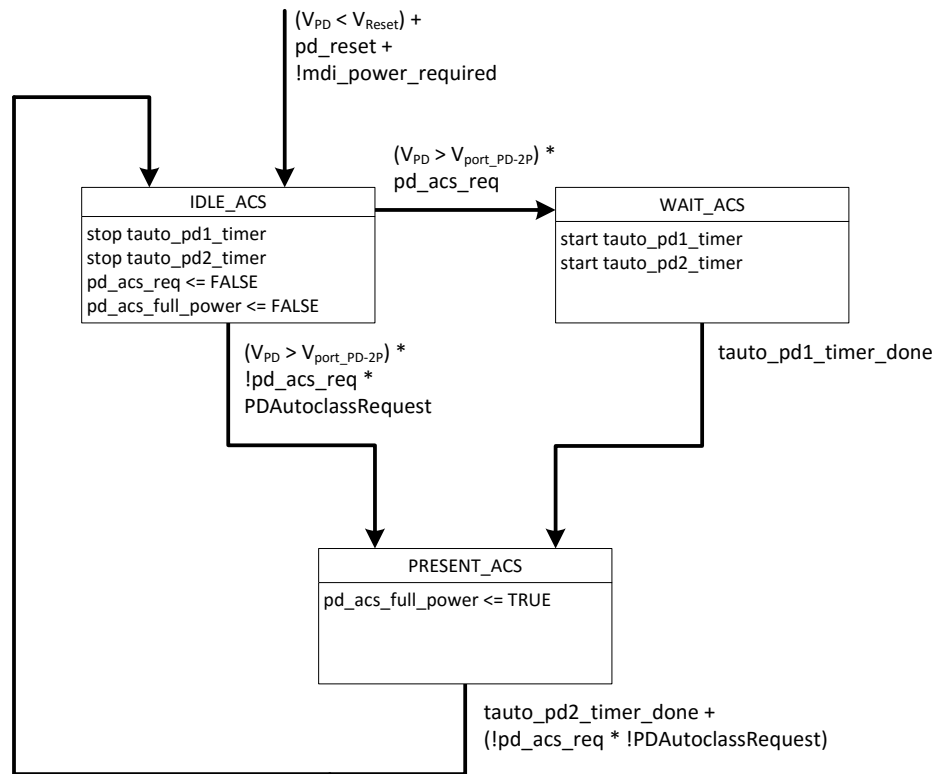
This function measures  $P_{\text{Autoclass}}$  as defined in 33.2.7.3. This function returns the following variables:

$P_{\text{AUTOCLASS}}$ :

The maximum power measured by the PSE,  $P_{\text{Autoclass}}$ .



**PD Autoclass SD**  
(Modify Figure, 33.3.3.11)



**PD Autoclass SD**  
(New Figure, 33.3.3.11)

**Define new variables (33.3.3.8):**

pd\_acs\_req

This variable indicates whether the PD performs an Autoclass request during Physical Layer classification. See 33.3.6.3.

Values:

FALSE: The PD does not request Autoclass.

TRUE: The PD requests Autoclass.

pd\_acs\_full\_power

This variable indicates whether the PD is required to draw maximum power,  $P_{\text{Autoclass\_PD}}$ . See 33.3.6.3.

Values:

FALSE: The PD is not required to draw maximum power.

TRUE: The PD is required to draw maximum power for Autoclass measurement.

PDAutoclassRequest

A control variable output by the PD power control state diagram indicating whether the PD requests Autoclass via the Data Link Layer. See 33.5.

Values:

FALSE: The PD does not request an Autoclass measurement to be performed.

TRUE: The PD requests an Autoclass measurement to be performed.

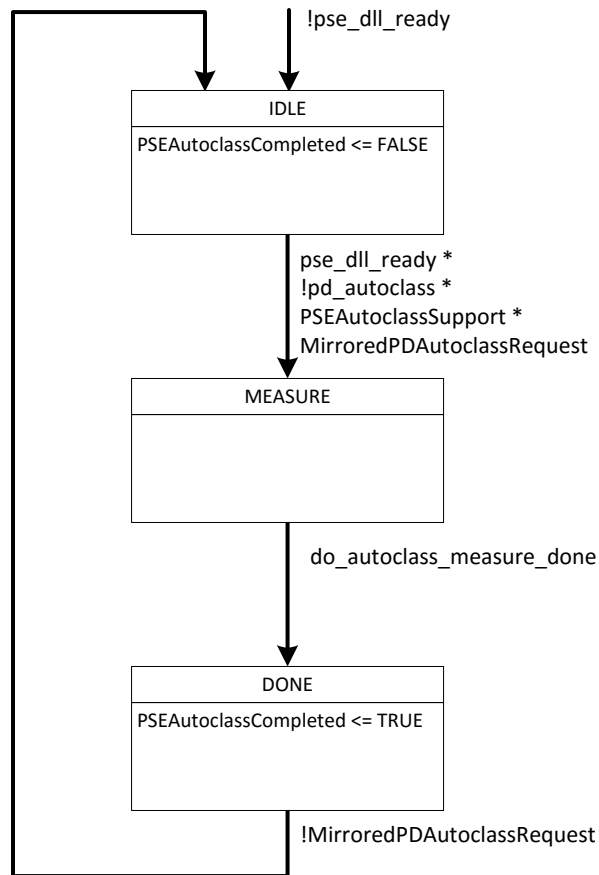
**Define new timers (33.3.3.9):**

tauto\_pd1\_timer

A timer indicating maximum delay until start of Autoclass power draw. Applies to Autoclass requests by Physical Layer classification; see  $T_{\text{AUTO\_PD1}}$  in 33.3.6.3.

tauto\_pd2\_timer

A timer indicating minimum delay until end of Autoclass power draw. Applies to Autoclass requests by Physical Layer classification; see  $T_{\text{AUTO\_PD2}}$  in 33.3.6.3.



**PSE DLL Autoclass Control SD**  
**(Replace Figure 33-47, 33.5.3.6)**

**Define new variable (33.2.5.9):**

pd\_autoclass

A control variable output by the Type 3 and Type 4 PSE state diagram indicating whether the PSE has observed an Autoclass measurement request during Physical Classification. See 33.2.5.9.

Values:

False: The PSE does not observe an Autoclass measurement request.

True: The PSE observes an Autoclass measurement request.

**Define new function (33.2.5.11):**

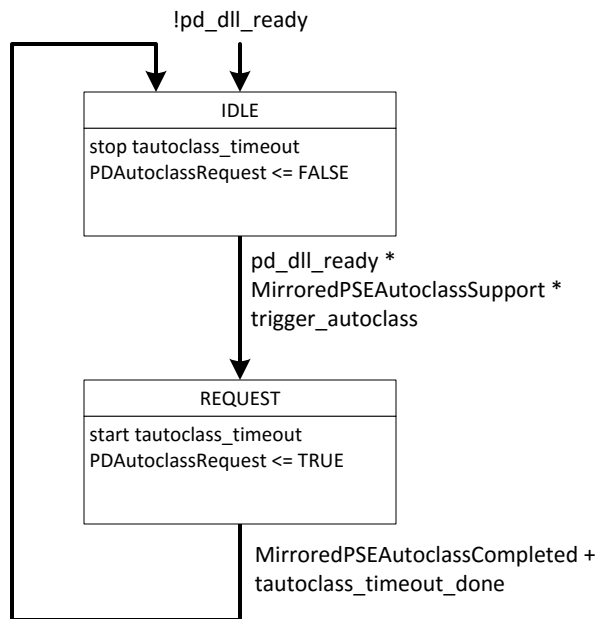
do\_autoclass\_measure

A function defined in the Type 3 and Type 4 PSE state diagram, measuring  $P_{\text{Autoclass}}$  as defined in 33.2.7.3.

This function returns the following variables:

P\_AUTOCLASS:

The maximum power measured by the PSE,  $P_{\text{Autoclass}}$ .



**PD DLL Autoclass Control SD**  
**(Replace Figure 33-48, 33.5.3.6)**