# Baseline for Autoclass Timing improvement v102

#### Info (not part of baseline)

#### Changes:

- The parameter T<sub>ACS</sub>, defined in the PD section, is also used in the PSE section. It would be better to have a
  dedicated PSE parameter.
- We do not need to describe the timing aspect of Autoclass classification, this is handled by the state machine's two different Autoclass states.
- Previous baseline (yseboodt\_07\_0316\_Autoclass3.pdf) instructed to rename tacs\_timer to tacs\_pd\_timer, but this
  was not implemented.

### **33.2.5.10** Type **3** and Type **4** timers

#### Insert tclassacs\_timer as follows:

tclassacs\_timer

A timer used to indicate when the PSE may measure the class current during the first long class event, to check if the PD is requesting Autoclass. See  $T_{Class\_ACS}$  in Table 33–15.

Rename tacs\_timer in the PSE state diagrams to tclassacs\_timer.

## 33.2.7.2 PSE Multiple-Event Physical Layer classification

. . .

The referenced Autoclass time Autoclass timing, T<sub>ACS</sub> T<sub>Class\_ACS</sub> is specified in Table 33–27.

. .

The total timing specification for Type 3 and Type 4 PSEs in the states CLASS\_EV1\_LCE and CLASS\_EV1\_AUTO shall be  $T_{LCE}$ . The PSE in the state CLASS\_EV1\_AUTO shall measure  $I_{Class}$  after  $T_{Class\_LCE}$   $T_{Class\_ACS}$ , referenced from the application of the first class event, to determine if the PD will perform Autoclass. If the Autoclass enabled Type 3 or Type 4 PSE in the state CLASS\_EV1\_LCE does not measure  $I_{Class}$  in the range of class signature 0 before  $T_{ACS}$  min and the PSE in the state CLASS\_EV1\_AUTO does measure  $I_{Class}$  in the range of class signature 0 after  $T_{ACS}$  max this indicates the PD will perform Autoclass; see 33.2.7.3 and 33.3.5.3.

#### Insert new item $T_{Class\_ACS}$ into Table 33–15 as follows:

Item	Parameter	Symbol	Unit	Min	Max	Single- or Multiple Event	Additional information
x	Autoclass I <sub>Class</sub> measurement timing	T <sub>Class_ACS</sub>	ms	88.0		Multiple	See 33.2.7.3

## 33.3 Powered Devices (PDs)

Rename tacs\_timer to tacs\_pd\_timer in the PD section 33.3 (text + state diagram).

