

33.2.4.9 Type 3 and Type 4 variables

`class_num_events_pri`

A variable indicating the maximum number of classification events performed by the PSE on the primary alternative. A variable that is set in an implementation-dependent manner.

Values:

- 0: PSE does not perform Physical Layer classification on the primary alternative.
- 1: PSE performs Single-Event Physical Layer classification or Multiple-Event Physical Layer classification with a maximum of 1 class event on the primary alternative.
- 2: PSE performs Multiple-Event Physical Layer classification with a maximum of 2 class events on the primary alternative.
- 4: PSE performs Multiple-Event Physical Layer classification with a maximum of 4 class events on the primary alternative.
- 5: PSE performs Multiple-Event Physical Layer classification with a maximum of 5 class events on the primary alternative.

`class_num_events_sec`

A variable indicating the maximum number of classification events performed by the PSE on the secondary alternative. A variable that is set in an implementation-dependent manner.

Values:

- 0: PSE does not perform Physical Layer classification on the secondary alternative.
- 1: PSE performs Single-Event Physical Layer classification or Multiple-Event Physical Layer classification with a maximum of 1 class event on the secondary alternative.
- 2: PSE performs Multiple-Event Physical Layer classification with a maximum of 2 class events on the secondary alternative.
- 4: PSE performs Multiple-Event Physical Layer classification with a maximum of 4 class events on the secondary alternative.
- 5: PSE performs Multiple-Event Physical Layer classification with a maximum of 5 class events on the secondary alternative.

`class_4PID_mult_events_pri`

A variable indicating if the PSE uses the method consisting in generating 3 class events to determine if the dual signature PD is a candidate for 4-pair power.

TRUE: the PSE generates at least 3 class events to determine if the PD is a candidate for 4-pair power.

FALSE: the PSE does not need to generate 3 class events to determine if the PD is a candidate for 4-pair power.

`temp_var_pri`

A temporary variable used to store the value of the state variable `mr_pd_class_detected` for the primary alternative.

`temp_var_sec`

A temporary variable used to store the value of the state variable `mr_pd_class_detected` for the secondary alternative.

33.2.4.10 Type 3 and Type 4 timers

tcle2_timer_pri

A timer used to limit the second classification event time in Multiple-Event classification on the primary alternative; see TCLE2 in Table 33–10.

tcle2_timer_sec

A timer used to limit the second classification event time in Multiple-Event classification on the secondary alternative; see TCLE2 in Table 33–10.

tcle3_timer_pri

A timer used to limit the third through fifth classification event time in Multiple-Event classification on primary alternative; see TCLE3 in Table 33–10.

tcle3_timer_sec

A timer used to limit the third through fifth classification event time in Multiple-Event classification on secondary alternative; see TCLE3 in Table 33–10.

tlcf_timer_pri

A timer used to limit the first classification event time in Multiple-Event classification on the Primary Alternative; see TLCF in Table 33–10.

tlcf_timer_sec

A timer used to limit the first classification event time in Multiple-Event classification on the Secondary Alternative; see TLCF in Table 33–10.

tme1_timer_pri

A timer used to limit mark event times for all but the last the first mark event time in during Multiple-Event classification on the primary alternative; see TME1 in Table 33–10.

tme1_timer_sec

A timer used to limit mark event times for all but the last the first mark event time in during Multiple-Event classification on the secondary alternative; see TME1 in Table 33–10.

tme2_timer_pri

A timer used to limit the second final mark event time in Multiple-Event classification on primary alternative; see TME2 in Table 33–10.

tme2_timer_sec

A timer used to limit the second final mark event time in Multiple-Event classification on secondary alternative; see TME2 in Table 33–10.

tclass_reset_timer

A timer used to limit the classification reset time; See Treset in Table 33-10.

33.2.4.11 Type 3 and Type 4 functions

do_mark_pri

This function produces the classification mark event voltage for the primary alternative. This function does not return any variables.

do_mark_sec

This function produces the classification mark event voltage for the secondary alternative. This function does not return any variables.

do_class_reset

This function produces the classification reset voltage; See Vreset in Table 33-10. This function does not return any variables.