



AHEAD OF WHAT'S POSSIBLE™

PSE: Dual-signature SM Class Probe, Class Reset

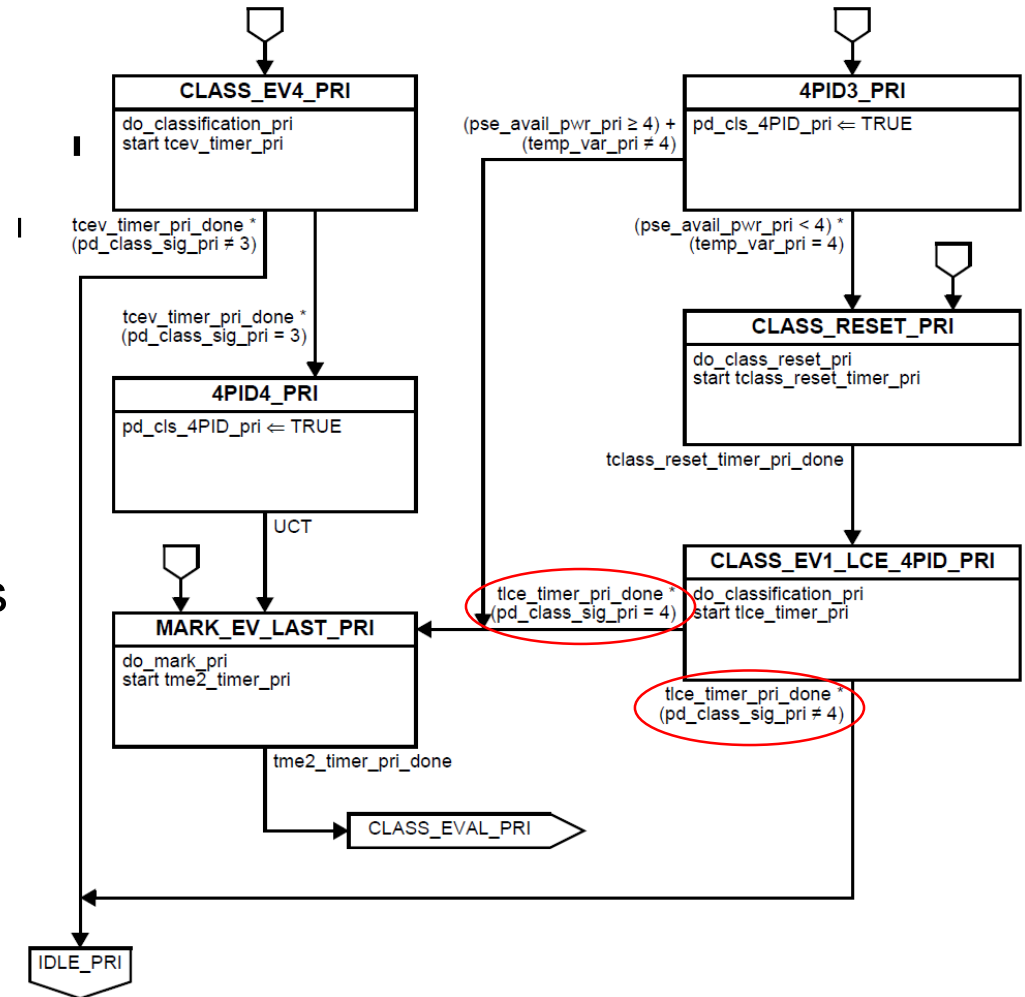
DAVID STOVER



1+1>2

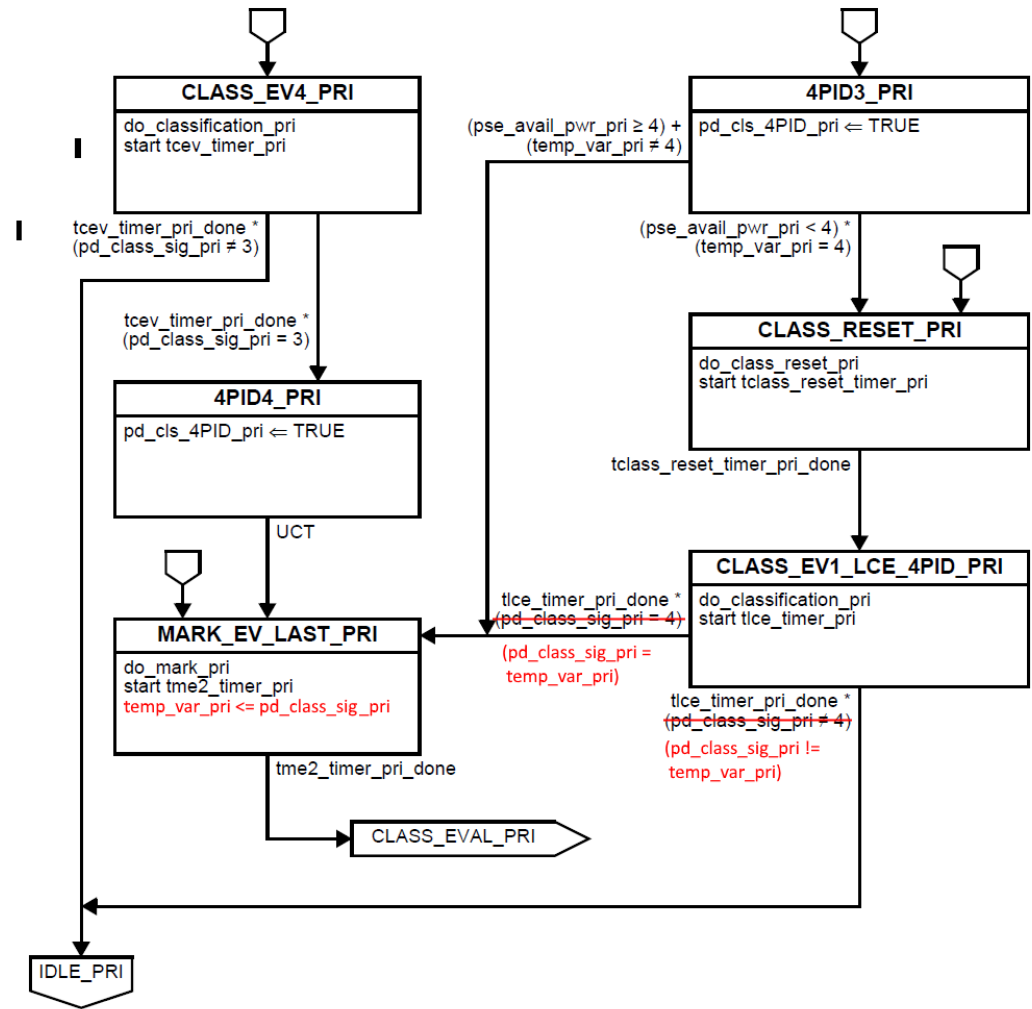
Problem Statement

- ▶ In SISM, Class Reset double-checks `pd_class_sig`
 - Ensures PD class signature has not changed since `CLASS_EV1`
- ▶ In Draft 3.0, Class Reset only performed if `pd_class_sig = 4` in `CLASS_EV1`
- ▶ In Draft 3.1, Class Probe uses Class Reset function
- ▶ With Class Probe, Class Reset may be performed for `pd_class_sig = 1` to `4`



Solution

- Modify Figure 145–15 as shown
- Repeat for Figure 145–16
 - “SEC” state diagram
- Note: temp_var_X holds pd_class_sig from CLASS_EV1_X



- ▶ “option_class_probe” variable definition does not reflect diagram usage
 - Modify definition of option_class_probe as follows:

option_class_probe

“This variable indicates if the PSE should determine the PD requested Class ~~when pse_avail_pwr is less than 4~~. When set to TRUE, the PSE will issue 3 class events to determine the PD requested Class, perform a classification reset by applying V_{Reset} for at least T_{Reset} to the PI (see Table 145–14), followed by a normal classification procedure.”