

104.3.3.3 Variables (PSE)

do_classification_done

TRUE: the PSE has concluded serial communication after performing a read of the PD information byte and any additional implementation dependent read or write commands.

FALSE: the PSE has not concluded serial communication after performing a read of the PD information byte and any additional implementation dependent read or write commands.

external_wakeup

TRUE: the PSE has received an external wakeup request.

FALSE: the PSE has not received an external wakeup request.

tdet_timer_done

TRUE: tdet_timer has expired.

FALSE: tdet_time has not expired.

fault_detected

TRUE: the PSE has faulted.

FALSE: the PSE has not faulted.

IPort

<No Value Definitions needed>

mfvs_valid

TRUE: a valid MFVS is present.

FALSE: a valid MFVS is absent.

pse_enable

TRUE: enable operation of the PSE.

FALSE: disable operation of the PSE.

sccp_enabled

TRUE: SCCP is supported.

FALSE: SCCP is not supported.

valid_signature

TRUE: PD signature is valid.

FALSE: PD signature is not valid.

pd_wakeup

TRUE: the PSE has detected a valid wakeup current signature

FALSE: the PSE has not detected a valid wakeup current signature

pi_detecting

TRUE: the PSE forces a voltage limited detection current and senses the voltage at the PI

FALSE: the PSE does not force a voltage limited detection current or sense the voltage at the PI

pi_discharge_enable

TRUE: the PSE is discharging the PI to VSleep

FALSE: the PSE is not discharging the PI to VSleep

pi_powered

TRUE: the PSE shall apply normal operating voltage to the PI.

FALSE: the PSE shall not apply normal operating voltage to the PI

pi_sleeping

TRUE: the PSE is applying VSleep at the PI

FALSE: the PSE is no applying VSleep at the PI

power_applied

TRUE: the PSE has begun steady state operation

FALSE: the PSE is either not applying power or has begun applying power but is still in the POWER_UP state.

power_not_available

TRUE: the PSE is no longer able to source power to the attached PD.

FALSE: the PSE is able to source power to the attached PD.

pse_ready

TRUE: the PSE is ready to probe the link segment.

FALSE: the PSE is not ready to probe the link segment.

sleep_detected

TRUE: the average value of IPort is less than or equal to the ISleep threshold current

FALSE: the average value of IPort is greater than the ISleep threshold current

valid_class

TRUE: valid class information was received from the PD during SCCP

FALSE: valid class information was not received from the PD during SCCP

vsleep_valid

TRUE: VPort_PSE is in the range of VSleep

FALSE: VPort_PSE is outside the range of VSleep

vsig_valid

TRUE: VPort_PSE is in the range of Vgood during the DO_DETECTION state.

FALSE: VPort_PSE is outside the range of Vgood during the DO_DETECTION state.

wakeup_detected

TRUE: the PD is requesting full power at the PI or an external wakeup request has been received by the PSE.

FALSE: the PD is not requesting full power at the PI and an external wakeup request has not been received by the PSE.

104.4.3.3 Variables (PD)

disconnect

TRUE: the PD no longer requires normal operating voltage from the PI and has reduced its port current below the MFVS threshold current.

FALSE: the PD still requires normal operating voltage from the PI.

enable_mdi_power

TRUE: the PD is enabled and ready to consume full power from the PI.

FALSE: the PD is disabled or not ready to consume full power from the PI.

fault_detected

TRUE: the PD no longer requires power as the result of an error condition.

FALSE: no fault has been detected.

pd_fault

TRUE: the PD has gone offline as the result of an error condition.

FALSE: no fault has been detected.

pd_sccp_enabled

TRUE: a PSE reset pulse has been detected by the PD and a SCCP serial transaction is pending.

FALSE: no PSE reset pulse has been detected by the PD.

POR

TRUE: the PD is in power-on reset.

FALSE: the PD is not in power-on reset.

present_det_sig

TRUE: present the detection signature at the PI

FALSE: do not present the detection signature at the PI.

present_iwakeup

TRUE: present the wakeup current signature.

FALSE: do not present the wakeup current signature.

present_mfvs

TRUE: apply the MFVS

FALSE: do not apply the MFVS.

sccp_reset_pulse

TRUE: a SCCP reset pulse has been received by the PD.

FALSE: a SCCP reset pulse has not been received by the PD.

sccp_watchdog_tmr_done

TRUE: the SCCP watchdog timer has expired.

FALSE: the SCCP watchdog timer has not expired.

tpowerdly_timer_done

TRUE: the tpower delay timer has expired.

FALSE: the tpower delay timer has not expired.

VPD

<No value definitions needed>

wakeup

TRUE: the PD requires full power at the PI.

FALSE: the PD is ready to go to sleep.