

USB Type-C ENGINEERING CHANGE NOTICE

Title: vSinkPD_min for AVS

Applied to: USB Type-C Specification Release 2.3, Oct 2023

Brief description of the functional changes proposed:
--

vSinkPD_min calls out Fixed and PPS voltage thresholds but does not mention AVS. This ECN corrects that.
--

Benefits as a result of the proposed changes:
--

Makes it clear how to set vSinkPD_min for AVS.
--

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
--

Should have no impact

An analysis of the hardware implications:
--

None

An analysis of the software implications:
--

None

An analysis of the compliance testing implications:
--

No impact

USB Type-C ENGINEERING CHANGE NOTICE

Actual Change Requested

(a). Table 4-3 VBUS Sink Characteristics Page 146

From Text:

vSinkPD_min ¹		vNew – 750mV – vValid	The minimum valid VBUS voltage seen by sink when negotiated through USB PD . vNew = vSrcNew (min) or vPpsNew (min) as defined in USB PD . 750 mV= 500 mV + 250 mV (maximum IR drop) vValid = vSrcValid (min) or vPpsValid (min) as defined in USB PD .
--------------------------	--	-----------------------	--

To Text:

vSinkPD_min ¹		vNew – 750mV – vValid	The minimum valid VBUS voltage seen by sink when negotiated through USB PD . vNew = vSrcNew (min) or vPpsNew (min) or vAvsNew (min) as defined in USB PD . 750 mV= 500 mV + 250 mV (maximum IR drop) vValid = vSrcValid (min) or vPpsValid (min) or vAvsValid (min) as defined in USB PD .
--------------------------	--	-----------------------	--