

USB Type-C ENGINEERING CHANGE NOTICE

Title: Sink with Accessory Support

Applied to: USB Type-C Specification Release 1.3, July 14, 2017

Brief description of the functional changes proposed:
Corrects a discrepancy between USB PD and USB Type-C regarding the required UDB PD behavior of a Sink with Accessory Support.

Benefits as a result of the proposed changes:
Clarifies the required behavior of a Sink with Accessory Support.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
None, this is just clarifying the original intent.

An analysis of the hardware implications:
None

An analysis of the software implications:
This only clarifies the software requirements for this optional mode of operation.

An analysis of the compliance testing implications:
This only clarifies the behavior to be tested.

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Actual Change Requested

(a). Section 4.5.2.2.20.1, PoweredAccessory Requirements, Page 163

From Text:

When the port initially enters the [PoweredAccessory](#) state it shall operate as a DFP.

The port shall do at least one of the following:

- Use [USB Power Delivery](#) Structured Vendor Defined Messages (Structured VDMs) to identify the accessory and enter an Alternate Mode.
- Use [USB Power Delivery](#) to query the identity of the cable to confirm that it is connected to a [VCONN-Powered USB Device](#). The port may also initiate other SOP' communication, such as to update the VPD firmware.

To Text:

When the port initially enters the [PoweredAccessory](#) state it shall operate as a [USB Power Delivery Source with a DFP data role-DFP](#). [In addition,](#)

~~The port shall do support~~ at least one of the following:

- Use [USB Power Delivery](#) [to establish an explicit contract and then use S](#)Structured Vendor Defined Messages (Structured VDMs) to identify ~~the a accessory VPA~~ and enter an Alternate Mode.
- Use [USB Power Delivery](#) to query the identity of ~~the a cable VPD to confirm that it is connected to a VCONN-Powered USB Device VPD(that operates as a cable plug responding to SOP')~~. ~~The port may also initiate other SOP' communication, such as to update the VPD firmware.~~

(b). Section 4.10.2, VCONN-Powered USB Devices, Page 196

From Text:

A VCONN-powered USB Device shall only respond to [USB PD](#) messaging on SOP'.

To Text:

A VCONN-powered USB Device shall ~~only~~ respond to [USB PD](#) messaging on SOP', [and shall not respond to other USB PD messaging. A VCONN-powered USB Device shall respond to USB PD Hard Reset and Cable Reset signaling.](#)