USB Type-C ENGINEERING CHANGE NOTICE FORM

Title: Debug Accessory Appendix
Applied to: USB Type-C Specification Release 1.2

Brief description of the functional changes:
Section 4.5.2.2.13.2 incorrectly gives exit condition to AttachWait.Accessory from Unattached.Accessory as the port transitioning out when both CC1 and CC2 are Rd/Rd or Ra/Ra. This is not correct. The exit to AttachWait.Accessory should not be Rd/Rd. An Audio accessory will exit on Ra/Ra and a powered accessory will exit on Rd/Ra. Rd/Rd should not exit to this state.

Benefits as a result of the changes:
Corrects text to match flow and avoid confusion

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
No impact

An analysis of the hardware implications:

An analysis of the software implications:

An analysis of the compliance testing implications:

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Actual Change

(a). Section 4.5.2.2.13.2 “Exiting from Unattached.Accessory State”

From Text:

The port shall transition to AttachWait.Accessory when the state of both the CC1 and CC2 pins is SRC.Ra or SRC.Rd.

A port that supports VCONN-powered accessories also shall transition to AttachWait.Accessory when the state of either CC1 or CC2 pin is SRC.Ra and the other CC pin is SRC.Rd.

Otherwise, the port shall transition to Unattached.SNK within tDRPTransition after dcSRC.DRP · tDRP, or if directed.

To Text:

~~The port shall transition to AttachWait.Accessory when the state of both the CC1 and CC2 pins is SRC.Ra or SRC.Rd.~~

A port that supports Audio Adapter Accessory Mode shall transition to AttachWait.Accessory when the state of both CC pins is SRC.Ra.

A port that supports VCONN-powered accessories also shall transition to AttachWait.Accessory when the state of either CC1 or CC2 pin is SRC.Ra and the other CC pin is SRC.Rd.

Otherwise, the port shall transition to Unattached.SNK within tDRPTransition after dcSRC.DRP · tDRP, or if directed.