

# USB Type-C ENGINEERING CHANGE NOTICE

## Title: FSM for non-PD UFP with Accessory Support Applied to: USB Type-C Specification Release 1.1.

### Brief description of the functional changes:

A UFP that supports accessories but not PD might not connect to aDRP or another UFP with accessory support through an active cable, since it enters AttachWait.Accessory from Unattached.Accessory state if it finds SRC.Ra/SRC.Rd and is then stuck in AttachWait.Accessory since it doesn't support the PoweredAccessory state.

### Benefits as a result of the changes:

A UFP that supports accessories but not PD will always be able to connect to a UFP or DRP even through an active cable and regardless of their relative toggle states at first connect.

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

None.

### An analysis of the hardware implications:

Will only affect UFP with accessory support that does not support PD and that has not already implemented some workaround for this problem.

### An analysis of the software implications:

None

### An analysis of the compliance testing implications:

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## Actual Change

### Section 4.5.2.2.11.2 Exiting from Unattached.Accessory State

#### From Text:

The port shall transition to AttachWait.Accessory when the state of neither of the CC pins is SRC.Open.

The port shall transition to Unattached.SNK within tDRPTransition after dcSRC.DRP · tDRP, and the state of at least one CC pin is SRC.Open or if directed.

#### To Text:

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

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

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