

USB Type-C ENGINEERING CHANGE NOTICE

Title: Alternate Mode Non-Host DFP Clarification

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

Brief description of the functional changes proposed:
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This ECR clarifies the applicability of Alternate Modes beyond host connected directly to a device.

Benefits as a result of the proposed changes:
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Removes conflict in statements that (a) Alternate Modes shall only be used between host connected directly to a device, and (b) USB4 Hubs are required to support DP and TBT3 Alternate Modes on DFPs, and Alternate Mode Expanders are permitted to support Alternate Modes on DFPs.

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

An analysis of the hardware implications:
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None

An analysis of the software implications:
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None

An analysis of the compliance testing implications:
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This provides clarity for Compliance Testing.

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Actual Changes Requested

Appendix E

From Text:

As Alternate Modes do not traverse the USB hub topology, they shall only be used between a host connected directly to a device.

To Text:

~~As Alternate Modes do not traverse the USB hub topology, they shall only be used between a host connected directly to a device.~~

For Alternate Mode support on USB2 and USB3 Hubs, see Section 4.7.

For Alternate Mode support on USB4 Hubs, see Section 5.2.3.2.