

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Conditions to Use TBT3-Compatible Sideband Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:
Changes the conditions to use a TBT3-compatible Sideband and narrowing it to only Active Cable with Bidirectional Re-timers.

Benefits as a result of the changes:
Includes more Cable types that support a USB4 Sideband Channel.

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:
None

An analysis of the software implications:
None

An analysis of the compliance testing implications:
None

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Actual Change

(a). Table 13-7, Lane Attributes, Page 733

To Text:

Attribute	Action
RS-FEC	Gen 2 speed: Router A shall enable RS-FEC if at least one side of the Link requests it (i.e. the <i>RS-FEC Request (Gen 2)</i> bit is set to 1b in the SB Register Space of the local USB4 Port and/or its Link Partner). Otherwise, RS-FEC shall not be enabled. Router A shall set the <i>RS-FEC Enabled (Gen 2)</i> bit in the USB4 Port Capability to reflect whether it is operating with RS-FEC.
USB4-Compatible Sideband Channel	The Sideband Channel of Router A shall operate as a USB4-TBT3-Compatible Sideband Channel (as defined in Section 4.13.2) if any of the following are true: <ul style="list-style-type: none">• The <i>USB4 Sideband Channel Support</i> bit in the SB Register Space of both of the Routers is 40b.• The Link is over either a Passive Cable or an Active Cable with unidirectional Re-timers. Else, the Sideband Channel of Router A shall operate as a TBT3-Compatible USB4 Sideband Channel (as defined in Section 13.24.1).