

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Pre-Coding on a TBT3-Compatible Link
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

Changes the conditions on which Pre-Coding shall be disabled on a TBT3-Compatible Link.

Benefits as a result of the changes:

Better interoperability with the existing TBT3 eco-system.
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An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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Need to comply to this change in order to support TBT3 Active Cables.

An analysis of the hardware implications:
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Changes the conditions to activate Pre-Coding.
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An analysis of the software implications:
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None

An analysis of the compliance testing implications:
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Need to change Pre-Coding activation in TBT3-Compatible Link testing.

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Actual Change

(a). Section 13.2.3.2, Pre-Coding, Page 547

From Text:

In addition to the conditions defined in Section 4.3.6.2, Pre-coding shall be off when the Link Partner has the *USB4 Sideband Channel Support* bit in SB Register Space set to 0b.

To Text:

In addition to the conditions defined in Section 4.3.6.2, Pre-coding shall be off when the Link uses a TBT3-Compatible Sideband Channel~~Partner has the *USB4 Sideband Channel Support* bit in SB Register Space set to 0b.~~