USB Type-C ENGINEERING CHANGE NOTICE FORM

Title: USB 2.0 Hubs with Type-C Connectors
Applied to: USB Type-C Specification Release 1.2

Brief description of the functional changes:

Allow USB 2.0 hub implementations with one or more USB Type-C connector(s).

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Benefits as a result of the changes:

USB 2.0 hubs can be cheaper and quicker to adopt USB Type-C connectors and get them into the ecosystem.

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

No impact to existing products.

An analysis of the hardware implications:

Products with USB 3.1 HW are more expensive and time consuming to implement than USB 2.0 HW.

More USB Type-C ports will enter the ecosystem faster with USB 2.0 implementations coming to market earlier.

Products must be well packaged for users to understand their data throughput capabilities.

An analysis of the software implications:

Products with USB 3.1 SW/FW are more expensive and time-consuming to implement than USB 2.0 FW. Another reason USB 2.0 hubs will ship out with Type-C ports faster.

An analysis of the compliance testing implications:

USB 2.0 hubs with one or more USB Type-C connectors on its DFPs will be USB-IF compliant.

USB 2.0 hubs with a USB 2.0 Type-C connector on its UFP will be compliant.

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Actual Change

(a). Section 4.7 USB Hubs

From Text:

USB hubs are defined by the USB 2.0 and USB 3.1 Specifications. USB hubs implemented with one or more USB Type-C connectors shall comply with the USB 3.1 Specification.

To Text:

USB hubs are defined by the USB 2.0 and USB 3.1 Specifications. USB hubs implemented with one or more USB Type-C connectors shall comply with the USB 2.0 specification or both USB 2.0 and USB 3.1 specifications as relevant to a USB Type-C implementation. All the downstream facing USB Type-C ports on a USB hub should support the same functionality or shall be clearly marked as to their function.