USB Type-C ENGINEERING CHANGE NOTIFICATION

Title: Cable Cert and Icon Update
Applied to: USB Type-C Specification Release 2.1, May 2021

Brief description of the functional changes proposed:
Updates spec to align with USB-IF policies regarding cable marking of certified cables. Removes the explicit logo requirement for 240W cables from the spec. It is anticipated that USB-IF will establish and enforce cable rating labeling requirements within the voluntary USB-IF Compliance Program.

Benefits as a result of the proposed changes:
Help to address the long-standing issue of users not being able to know a cable's capabilities by physical inspection by strengthening recommendations regarding cable certification and labeling.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
Does not impact existing products.

An analysis of the hardware implications:
None.

An analysis of the software implications:
None.

An analysis of the compliance testing implications:
Cable certification to be updated to verify that the cable marking will be compliant with the USB-IF marking rules.

Actual Change Requested

Changes highlighted in modified text and figures

3.4 Standard USB Type-C Cable Assemblies

3.4.1 USB Full-Featured Type-C Cable Assembly

3.4.1.1 Cable Certification and Identification

All USB Full-Featured Type-C cable assemblies shall be Electronically Marked and include information in the eMarker as defined by the USB PD specification.

All USB Full-Featured Type-C cable assemblies should be certified and visibly identified with certified cable identification icons as defined by the USB-IF. This enables end users to be able to confirm visually the functional capabilities of the cable in terms of the cable's power rating, either 60W or 240W, and the cable's data performance, e.g., 5 Gbps, 20 Gbps or higher.

3.4.2 USB 2.0 Type-C Cable Assembly

3.4.2.1 Cable Certification and Identification

All USB 2.0 Type-C cable assemblies that are rated for higher than 3A shall be Electronically Marked and include information in the eMarker as defined by the USB PD specification.

All USB 2.0 Type-C cable assemblies should be certified and visibly identified with certified cable identification icons as defined by the USB-IF. This enables end users to be able to confirm visually the functional capabilities of the cable in terms of the cable's power rating, either 60W or 240W.

3.11 Extended Power Range (EPR) Cables

3.11.1 Electrical Requirements

3.11.2 EPR Cable Identification Requirements

All EPR cables shall be Electronically Marked and include EPR-specific information in the eMarker as defined by the USB PD specification. As defined in the *USB PD* specification, EPR cables are marked as 50 V and 5 A capable.

~~All EPR cables shall be visibly identified with EPR cable identification icons as defined by the USB-IF. This is required so that end users will be able to confirm visually that the cable supports up to as high of PDP = 240W as defined in the *USB PD* specification.~~Refer to Sections 3.4.1.1 and 3.4.2.1 regarding cable certification and identification.