USB Type-C ENGINEERING CHANGE NOTICE

Title: Initial USB Type-C Power Advertisement
Applied to: USB Type-C Specification Release 2.0, August 2019

Brief description of the functional changes proposed:
A multi-port charger than can guarantee 15W upon attach, should be allowed to advertise 3A initially. This change allows for such an implementation.

Benefits as a result of the proposed changes:
Simplify processing for simple wall chargers that can always provide 15W.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
None. Existing implementations are not affected.

An analysis of the hardware implications:
None. Existing implementations are not affected.

An analysis of the software implications:
None. Existing implementations are not affected.

An analysis of the compliance testing implications:
May need to be updated to allow a USB Type-C Rp to be 3A from the beginning.

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Actual Change Requested

(a). Section 4.8.6.2 Multi-Port Charger Behaviors, Page 229

Existing Text:

- All exposed USB Type-C Current ports shall have the ability to offer the same power capabilities.
  - All ports shall initially offer 1.5 A.
  - Ports shall increase to 3 A after attach if they have sufficient available shared capacity within one second.
  - Ports shall never offer less than 1.5 A – e.g. shall not offer Default.

New Text:

- All exposed USB Type-C Current ports shall have the ability to offer the same power capabilities.
  - All ports shall initially offer at least 1.5 A
  - ~~A port shall not initially offer 3A unless it can supply 3A to all ports simultaneously~~The total of offers across all the ports shall never exceed the capacity of the shared supply.
  - Ports that initially offer 1.5A shall increase to 3 A after attach if they have sufficient available shared capacity within one second.
  - Ports shall never offer less than 1.5 A – e.g. shall not offer Default.