

USB Power Delivery ENGINEERING CHANGE NOTICE

Title: PDP Rounding

**Applied to: USB Power Delivery Specification Revision 3.0
Version 1.1**

Brief description of the functional changes proposed:
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There has been some confusion on the rounding of a Source's PDP value returned in the Source's extended capabilities message. This ECN clarifies that the PDP returned in the extended capabilities is the floor ($V \cdot I$)
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Benefits as a result of the proposed changes:
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Clarifies definition of PDP in the extended capabilities.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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None

An analysis of the hardware implications:
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None

An analysis of the software implications:
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None

An analysis of the compliance testing implications:
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Resolves an outstanding issue.

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Actual Change Requested

(a). Section 6.5.1.12, Page 165

From Text:

The Source PDP field *Shall* report the Source's rated PDP as defined in Table 10-2.

To Text:

The Source PDP field *Shall* report the integer portion of the Source's rated PDP as defined in Table 10-2.

(b). Section 10.2, Page 528

To Text:

The Source Power rules define PDP to provide a simple way to tell the user about the capabilities of their power adapter or port. PDP is akin to the wattage rating of a light bulb – bigger numbers mean more capability. A Source's PDP is the highest nominal voltage times the nominal current reported in its fixed PDOs. For labeling purposes, Sources above 10W should advertise only the integer portion of the PDP.