

# USB Type-C ENGINEERING CHANGE NOTICE

**Title: Clarify PDP in Section 4.6.2.4**

**Applied to: USB Type-C Specification Release 2.4, Oct 2024**

<b>Brief description of the functional changes proposed:</b>
ECR proposes editorial clarification of PDP in Section 4.6.2.4. When originally developed, the USB PD definition of PDP was as a user visible static value representing a port's rated power capability. Since then, the PDP definitions have evolved significantly and the USB Type-C use of "PDP" in this section needs to be adjusted to refer to the appropriate USB PD definition. In this case, that reference should be to "Guaranteed PDP".

<b>Benefits as a result of the proposed changes:</b>
Changes intended for easing future spec interpretation.

<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
No impact.

<b>An analysis of the hardware implications:</b>
No intended implications.

<b>An analysis of the software implications:</b>
No intended implications.

<b>An analysis of the compliance testing implications:</b>
May be helpful in clarifying testing requirements regarding USB PD Source port's setting of Rp for the time prior to entering an Explicit Contract.

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## Actual Change Requested

### (a). Section 4.6.2.4

#### To Text:

[Update as indicated with change notations.]

#### 4.6.2.4 USB Power Delivery

When not in an Explicit Contract, **USB PD** Sources that are, based on their PDP (*i.e., Guaranteed PDP as defined by USB PD*), capable of supplying:

- ~~5 V at 3 A~~ **15 W** or greater *shall* advertise **USB Type-C Current** at the ~~3~~ **0** A level,
- ~~5 V at 1.5 A~~ **7.5 W** or greater but less than ~~3 A~~ **15 W** *shall* advertise **USB Type-C Current** at the 1.5 A level, or
- ~~5 V at less than 1.5 A~~ **Less than 7.5 W** *shall* advertise **USB Type-C Current** at the Default USB Power level

within **tVBUSON** of entering the **Attached.SRC** state. For Shared Capacity Ports, a **USB PD** Source capable of supplying ~~5 V at 3 A~~ **15 W** or greater *may* initially offer **USB Type-C Current** at the 1.5 A level and subsequently increase the offer after attach (see Section 4.8.6.2). During USB Suspend a **USB PD** Source *may* set its **Rp** value to default to indicate that the Sink *shall* only draw USB suspend current as defined in Section 4.6.1.1.