

USB Type-C ENGINEERING CHANGE NOTICE

Title: Clarify Assured/Shared Capacity Definitions

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

Brief description of the functional changes proposed:
ECR proposes minor editorial adjustments to Assured and Shared Capacity definitions to minimize usage of USB PD terminology for enabling newer USB PD features, e.g., DPS.

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

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

An analysis of the hardware implications:
No intended implications.

An analysis of the software implications:
No intended implications.

An analysis of the compliance testing implications:
No intended implications.

USB Type-C ENGINEERING CHANGE NOTICE

Actual Change Requested

(a). Section 1.5

To Text:

[Update as indicated with change notations.]

1.5 Terms and Abbreviations

Term	Description
Assured Capacity Port	A charger port that, in terms of USB PD, is either a Guaranteed Capability or Managed Capability port that is always capable of delivering its Port Maximum PDP.
Assured Capacity Port	A charger port that has a dedicated allocation of power, i.e., the port isn't part of a Shared Capacity group of ports.
Shared Capacity Port	A charger port that, in terms of USB PD, is a Managed Capability port that is not always capable of delivering its Port Maximum PDP due to it being part of a group of ports that share a common source that is less than the sum of the individual port's Port Maximum PDPs.
Shared Capacity Port	A charger port where its allocation of power may be constrained due to it being part of a group of ports that share a common power source that is less than the sum of the individual port's power ratings.

(b). 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, capable of supplying:

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

within **tVbusON** of entering the **Attached.SRC** state. For ~~Multi-Port~~ Shared Capacity ~~Chargers Ports~~, a **USB PD** Source capable of supplying 5 V at 3 A 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.