

USB Power Delivery ENGINEERING CHANGE NOTICE

Title: GotoMin Applicability

Applied to: USB Power Delivery Specification Revision 3.0

Version 2.0

Brief description of the functional changes proposed:
This ECN does not have any functional change. It changes the applicability of the GotoMin message to align the USB PD spec with Multi-Port Charger rules in the USB Type-C specification.

Benefits as a result of the proposed changes:
Clarify requirements.

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:
None

An analysis of the software implications:
None

An analysis of the compliance testing implications:
May require updating existing tests in the PD CTS. May require adding a new parameter to the VIF regarding whether GotoMin is supported.

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Actual Change Requested

(a). Table 6-69

From Text:

Message Type	Source	Sink	Dual-Role Power	Dual-Role Data	Cable Plug	VPD
Transmitted Message						
GotoMin	CN ¹ / O	NA			NA	NA
Received Message						
GotoMin	NS	R ³			I	I
Note 1: <i>Should</i> be supported by a Hub with multiple Downstream Ports. <i>Should</i> be supported by a Host with multiple Downstream Ports.						
Note 3: <i>Should</i> be supported by Sinks which use PD power for charging.						

To Text:

Message Type	Source	Sink	Dual-Role Power	Dual-Role Data	Cable Plug	VPD
Transmitted Message						
GotoMin	CN ¹ / O	NA			NA	NA
Received Message						
GotoMin	NS	R ³			I	I
Note 1: Shall <i>Should</i> be supported by a <u>PDUSB</u> Hub with multiple Downstream Ports. <i>Should</i> be supported by a Host with multiple Downstream Ports.						
Note 3: <i>Should</i> be supported by Sinks which use PD power for charging.						

(b). Table 1-1

From Text:

PDUSB Hub	A port expander USB Device with a UFP and one or more DFPs which is PD Capable on at least one of its Ports. A PDUSB Hub is only addressed by SOP Packets.
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To Text:

PDUSB Hub	A port expander USB Device with a UFP and one or more DFPs which is PD Capable on at least one of its Ports. A PDUSB Hub is only addressed by SOP Packets. <u>A self-powered PDUSB Hub is treated as a USB Type-C Multi-Port Charger.</u>
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