

# USB Power Delivery ENGINEERING CHANGE NOTICE

**Title: Remove requirement for Passive Cables to support Enter\_USB**

**Applied to: USB Power Delivery Specification Revision 3.0  
Version 2.0**

<b>Brief description of the functional changes proposed:</b>
Clarification that passive cables do not support the Enter_USB command.

<b>Benefits as a result of the proposed changes:</b>
Brings the PD spec requirements in alignment with recent ECN to the USB Type-C specification.

<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
None. There are no existing systems.

<b>An analysis of the hardware implications:</b>
Removes requirement to add an unneeded feature to simple eMarkers.

<b>An analysis of the software implications:</b>
None.

<b>An analysis of the compliance testing implications:</b>
None.

# USB Power Delivery ENGINEERING CHANGE NOTICE

## Actual Change Requested

### (a). Section 6.4.8, Page 167

#### From Text:

The *Enter\_USB* Message **Shall** be sent by the DFP to its UFP Port Partner and to the Cable Plug(s), when in an Explicit Contract, to enter a specified USB Mode of operation. The recipient of the Message **Shall** respond by sending either an *Accept* Message in response to a **Valid** request or a *Reject* Message in response to an **Invalid** request.

#### To Text:

The *Enter\_USB* Message **Shall** be sent by the DFP to its UFP Port Partner and to the Cable Plug(s) of an **Active Cable**, when in an Explicit Contract, to enter a specified USB Mode of operation. The recipient of the Message **Shall** respond by sending either an *Accept* Message in response to a **Valid** request or a *Reject* Message in response to an **Invalid** request.

### (b). Section 6.12.2, Page 237, Table 6-70

#### From Text:

Table 6-70 Applicability of Data Messages

Message Type	Source	Sink	Dual-Role Power	Cable Plug SOP'	Cable Plug SOP''	VPD <sup>6</sup>
<b>Transmitted Message</b>						
<i>Source_Capabilities</i>	N	NA	N	NA	NA	NA
<i>Request</i>	NA	N		NA	NA	NA
<i>Get_Country_Info</i>	CN <sup>5</sup> /O	CN <sup>5</sup> /O		NA	NA	NA
<i>BIST</i>	N <sup>1</sup>	N <sup>1</sup>		NA	NA	NA
<i>Sink_Capabilities</i>	NA	N	N	NA	NA	NA
<i>Battery_Status</i>	CN <sup>2</sup>	CN <sup>2</sup>		NA	NA	NA
<i>Alert</i>	R	R		NA	NA	NA
<i>Enter_USB</i>	CN <sup>7</sup> /O	CN <sup>7</sup> /O		NA	NA	NA
<b>Received Message</b>						
<i>Source_Capabilities</i>	NS	N	N	I	I	I
<i>Request</i>	N	NS		I	I	I
<i>Get_Country_Info</i>	CN <sup>5</sup> /NS	CN <sup>5</sup> /NS		I	I	I
<i>BIST</i>	N <sup>1</sup>	N <sup>1</sup>		N <sup>1</sup>	N <sup>1</sup>	N <sup>1</sup>
<i>Sink_Capabilities</i>	CN <sup>4</sup>	NS	CN <sup>4</sup>	I	I	I
<i>Battery_Status</i>	CN <sup>3</sup> /NS	CN <sup>3</sup> /NS		I	I	I
<i>Alert</i>	R/NS	R/NS		I	I	I
<i>Enter_USB</i>	CN <sup>7</sup> /O	CN <sup>7</sup> /O		CN <sup>7</sup> /O	I	I

# USB Power Delivery ENGINEERING CHANGE NOTICE

Message Type	Source	Sink	Dual-Role Power	Cable Plug SOP'	Cable Plug SOP''	VPD <sup>6</sup>
<p>Note 1: For details of which BIST Modes and Messages <b>Shall</b> be supported see Section 5.9 and Section 6.4.3.</p> <p>Note 2: <b>Shall</b> be supported by products that contain batteries.</p> <p>Note 3: <b>Shall</b> be supported by products that support the <i>Get_Battery_Status</i> Message.</p> <p>Note 4: <b>Shall</b> be supported by products that support the <i>Get_Sink_Cap</i> Message.</p> <p>Note 5: <b>Shall</b> be supported when required by a country authority.</p> <p>Note 6: VPD includes CT-VPDs when not Connected to a Charger. PD communication with a CT-VPD <b>Shall</b> only take place when not Connected to a Charger.</p> <p>Note 7: <b>Shall</b> be supported by products that support <i>[USB4]</i>.</p>						

## To Text:

Table 6-70 Applicability of Data Messages

Message Type	Source	Sink	Dual-Role Power	Cable Plug SOP'	Cable Plug SOP''	VPD <sup>6</sup>
<b>Transmitted Message</b>						
<i>Source_Capabilities</i>	N	NA	N	NA	NA	NA
<i>Request</i>	NA	N		NA	NA	NA
<i>Get_Country_Info</i>	CN <sup>5</sup> /O	CN <sup>5</sup> /O		NA	NA	NA
<i>BIST</i>	N <sup>1</sup>	N <sup>1</sup>		NA	NA	NA
<i>Sink_Capabilities</i>	NA	N	N	NA	NA	NA
<i>Battery_Status</i>	CN <sup>2</sup>	CN <sup>2</sup>		NA	NA	NA
<i>Alert</i>	R	R		NA	NA	NA
<i>Enter_USB</i>	CN <sup>7</sup> /O	CN <sup>7</sup> /O		NA	NA	NA
<b>Received Message</b>						
<i>Source_Capabilities</i>	NS	N	N	I	I	I
<i>Request</i>	N	NS		I	I	I
<i>Get_Country_Info</i>	CN <sup>5</sup> /NS	CN <sup>5</sup> /NS		I	I	I
<i>BIST</i>	N <sup>1</sup>	N <sup>1</sup>		N <sup>1</sup>	N <sup>1</sup>	N <sup>1</sup>
<i>Sink_Capabilities</i>	CN <sup>4</sup>	NS	CN <sup>4</sup>	I	I	I
<i>Battery_Status</i>	CN <sup>3</sup> /NS	CN <sup>3</sup> /NS		I	I	I
<i>Alert</i>	R/NS	R/NS		I	I	I
<i>Enter_USB</i>	CN <sup>7</sup> /O	CN <sup>7</sup> /O		CN <sup>8</sup> /I <del>Q</del>	CN <sup>8</sup> /I	I
<p>Note 1: For details of which BIST Modes and Messages <b>Shall</b> be supported see Section 5.9 and Section 6.4.3.</p> <p>Note 2: <b>Shall</b> be supported by products that contain batteries.</p> <p>Note 3: <b>Shall</b> be supported by products that support the <i>Get_Battery_Status</i> Message.</p> <p>Note 4: <b>Shall</b> be supported by products that support the <i>Get_Sink_Cap</i> Message.</p> <p>Note 5: <b>Shall</b> be supported when required by a country authority.</p> <p>Note 6: VPD includes CT-VPDs when not Connected to a Charger. PD communication with a CT-VPD <b>Shall</b> only take place when not Connected to a Charger.</p> <p>Note 7: <b>Shall</b> be supported by products that support <i>[USB4]</i>.</p> <p>Note 8: <b>Shall</b> be supported by Active Cables that support <i>[USB4]</i>.</p>						