

# USB Power Delivery ENGINEERING CHANGE NOTICE

**Title: Clarification of Status Message SOP'**

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

<b>Brief description of the functional changes proposed:</b>
Clarify that Passive cables are allowed to send a Status Message.

<b>Benefits as a result of the proposed changes:</b>
Allowing Passive cables to report temperature. Note: this is not a requirement.

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

<b>An analysis of the hardware implications:</b>
None unless it is desired to add the Status Message.

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

<b>An analysis of the compliance testing implications:</b>
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Don't need to have this step separate for Passive and Active cables.

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## Actual Change Requested

### (a). Section 6.5.2.2

#### From Text:

A **Status** Message, sent in response to a **Get\_Status** Message to **SOP'** or **SOP''**, enables a Source or Sink to get the present status of the Active Cable's Cable Plug(s). Typically, a **Get\_Status** Message will be used by the USB Host and/or USB Device to manage the Active Cable's Cable Plug(s) temperature. The **Status** Message returns a 2-byte Status Data Block (SDB) whose format **Shall** be as shown in Figure 6-34 and Table 6 44.

#### To Text:

A **Status** Message, sent in response to a **Get\_Status** Message to **SOP'** or **SOP''**, enables a Source or Sink to get the present status of the **Active** Cable's Cable Plug(s). Typically, a **Get\_Status** Message will be used by the USB Host and/or USB Device to manage the **Active** Cable's Cable Plug(s) temperature. The **Status** Message returns a 2-byte Status Data Block (SDB) whose format **Shall** be as shown in Figure 6-34 and Table 6 44.

**Passive cables *Shall Not* indicate Thermal Shutdown.**

### (b). Table 6-51

#### From Text:

Offset (Byte)	Field	Value	Description
0	Internal Temp	Unsigned Int	Active Cable plug's internal temperature in °C. 0 = feature not supported 1 = temperature is less than 2°C. 2...255 = temperature in °C.

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1	Flags	Bit field	<b>Bit Description</b> 0 Thermal Shutdown 1...7 <i>Reserved</i> and <i>Shall</i> be set to zero
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1	Flags	Bit field	<b>Bit Description</b> 0 Thermal Shutdown 1...7 <i>Reserved</i> and <i>Shall</i> be set to zero

## (c). Section 6.5.2.1.1

## From Text:

The Internal Temp field reports the instantaneous temperature of the plug in °C. The internal temperature *Shall* be monotonic. The Active Cable *Shall* report its internal temperature every *tACTempUpdate*.

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The Internal Temp field reports the instantaneous temperature of the plug in °C. The internal temperature *Shall* be monotonic. The **Active** Cable *Shall* report its internal temperature every *tACTempUpdate*.