

USB Power Delivery ENGINEERING CHANGE NOTICE

Title: Increase tSenderResponse

**Applied to: USB Power Delivery Specification Revision 3.1
Version 1.5**

Brief description of the functional changes proposed:
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Increase the tSenderResponse to a range of min 27ms, max 33ms.
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Benefits as a result of the proposed changes:
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Removes a potential cause of device incompatibility.
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An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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Removes a potential cause of device incompatibility.
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An analysis of the hardware implications:
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An analysis of the software implications:
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An analysis of the compliance testing implications:
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Increasing the tSenderResponseTimer to 27ms to 33ms will not affect existing products as they will not require the new timing, and will not affect current designs not yet released as product for the same reason. If all new designs make use of the new timing, then there will be no issues in the future. Any design that uses an actual tSenderResponse of between 26 and 30ms will not require modification.

In compliance, only designs with tSenderResponse between 24 and 27ms would need a waiver if they do not expect to request full length unchunked extended messages. There should be no reason not to grant such a waiver. The waiver would be a signal to the vendor to increase the timer for future designs.

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Actual Change Requested

(a). Section 6.6.22, Page 230, Table 6-68

From Text:

<i>tSenderResponse</i>	26	29	32	ms	Section 6.6.2
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To Text:

<i>tSenderResponse</i>	27	30	33	ms	Section 6.6.2
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