

USB PD CTS ENGINEERING CHANGE NOTICE FORM

Title: Common Check 4 Timing

Applied to: USB PD CTS Specification Version 1.0 Revision 1

Brief description of the functional changes proposed:
The parameter tSenderResponse max timer is used in COMMON.CHECK.PD.4 instead of tReceiverResponse max

Benefits as a result of the proposed changes:
Actually testing the protocol timing

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:

An analysis of the hardware implications:

An analysis of the software implications:

An analysis of the compliance testing implications:

An analysis of the Vendor Info File (VIF) implications:

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Actual Change Requested

Changes in red

To Text:

COMMON.CHECK.PD.4 Check Atomic Message Sequence Response

Description: The Tester performs additional protocol checks on response messages as part of the Atomic Message Sequence (AMS).

Check Applicability: All PD response messages when an AMS has started

The Tester performs the following check when an AMS has started:

1. As part of an AMS, the check fails if the UUT does not **respond to a message** (sent by the Tester) within ~~tSenderResponse~~ ~~tReceiverResponse~~ max or ~~tVDMSenderResponse~~ ~~tVDMReceiverResponse~~ max from the last bit of the EOP of the GoodCRC message sent [COMMON.CHECK.PD.4#1]. The following are the exceptions:
 - a. PS_RDY message as part of Power Negotiation AMS
 - b. PS_RDY message as part of Power Role Swap AMS
 - c. PS_RDY message as part of VCONN Swap AMS
 - d. Security_Response message as part of Security AMS
 - e. Enter Mode command request as part Enter Mode AMS
 - f. Exit Mode command request as part Exit Mode AMS
 - g. **Not Supported message as part of chunked request**