

USB PD CTS ENGINEERING CHANGE NOTICE FORM

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Title: Rectify a check on common procedure check

Common.Proc.PD.7#1

Applied to: USB PD CTS Specification R1.4 V3

Brief description of the functional changes proposed:
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The ECR is to make changes on check on Common.Proc.PD.7#1. On this procedure check, the tester is evaluating the discover Identity request message received from the UUT. Noticed the check is not meeting the PD2 requirements.
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1: Section 1.a.i.3, on PD2 mode, the tester evaluating if the UUT is Vconn Source and the check fails if UUT not a Vconn Source. This check is conflicting with PD2 Specification as a Source UUT (either the DFP or UFP) can send SOP' messages to Cable while in implicit contract. Ref Figure 2-2 of PD2 Specification. Not necessary to be Vconn Source.
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2: The condition "a" is modified to match other conditions on the check and better readability.

Benefits as a result of the proposed changes:
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To align the test spec with base specification.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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None expected. Clarifies the actual requirement.
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An analysis of the hardware implications:
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NA

An analysis of the software implications:
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NA

An analysis of the compliance testing implications:
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Improved test results for PD compliance. With this clarification, false failures reported will be eliminated.

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

None

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Actual Change Requested

(a). Section COMMON.PROC.PD.7 UUT Sent Discover Identity Request, Page 54

From Text:

1. The Tester receives Discover Identity Request message from the UUT. This message is valid except the following conditions: [COMMON.PROC.PD.7#1]
 - a. If the test is running in PD2 mode
 - i. If the UUT is a UFP, the Tester checks that
 1. The message uses SOP' packet AND
 2. The message is sent after a PR_Swap AMS in which the UUT becomes the new Source and before an explicit contract exists AND
 3. UUT is VCONN source
 - ii. The check fails if the UUT is a Cable Plug

To Text:

1. The Tester receives Discover Identity Request message from the UUT. This message is valid except the following conditions: [COMMON.PROC.PD.7#1]
 - a. If the test is running in PD2 mode
 - i. If the UUT is a UFP, the checks fails if
 1. The message uses SOP' packet AND The message is sent after an explicit contract
 2. The message uses SOP packet
 - ii. The check fails if the UUT is a Cable Plug