

USB PD CTS ENGINEERING CHANGE NOTICE FORM

NOTICE: Any Company or Companies submitting a USB Power Delivery ECN proposal must be one of the following: a Promoter or Contributor of the USB 3.0 and 2.0 Specifications who have completed the USB Power Delivery addendum. If a group of Companies is submitting an ECR proposal, each company must be either a Promoter or Contributor of the USB 3.0 and 2.0 Specifications who have completed the USB Power Delivery addendum.

SPECIFICATION REVISIONS AND ADDENDA: At any point in time, there shall only be one current version of the USB PD CTS, termed the production version. At the same time, there may also be proposed revisions to the specification's design which are not yet approved and shall be held confidential as deemed necessary by the USB 3.0 and USB 2.0 Promoters and within the Group of Working Committee(s).

PROCEDURES FOR SUBMITTING PROPOSALS: Both members of the USB Implementers Forum as a whole and members of the USB 3.0 and USB 2.0 Promoters may submit requests to revise the USB PD CTS Specification. Such a request may be rejected or may result in a USB PD Engineering Change Notice (ECN), which is the official way USB specifications may be changed.

FORMAT OF PROPOSAL: The originator of a request to alter the USB PD CTS Specification may do so by posting this to the USB Power Delivery Compliance working group for review. Once the proposal has been reviewed by the working group it will be passed to the USB 3.0 and 2.0 Promoters for approval to publish.

RESUBMISSION AND APPEAL: The originator of a request that was not approved can redraft the original request. Rewritten proposal will be treated as a new proposal and will be evaluated using the procedures described above. The originator of a request that was not approved can also submit an appeal to the USB 3.0 and 2.0 Promoters. The appeal must be made in writing and addressed to the Secretary of the USB Implementers Forum.

ABOUT THE ENGINEERING CHANGE REQUEST FORM:

The Purpose of this Engineering Change Request Form is to expedite the review process of the proposal by providing explanations, background information, and examples of the proposed changes at a high level. This form serves as an executive summary to the actual proposal.

STEPS ON HOW TO SUBMIT A USB PD ENGINEERING CHANGE REQUEST:

1. Please fill out the Engineering Change Request Form on the following pages completely:
 - a. Detail the names and contact details for each of the ECR contributors
 - b. Update the ECR Title
 - c. Give a minimum of 2-3 sentences for each description on the form outlining the background to the ECR
2. For each section/table/figure to be updated:
 - a. Detail the section number, starting page and figure/table number to be updated as appropriate.
 - b. Detail existing text under "From Text"
 - c. Detail changed text under "To Text"
3. Save the file as "USB PD CTS 1.0 R 1" followed by the ECR Title as per step 1.b
4. Post the ECR in the USB PD CTS Documents section under "ECR | New ECRs".
 - a. This ECR will then be reviewed by the Power Delivery Compliance Working Group.
 - b. Revisions to the ECR originating from the review should be submitted as document revision of the original ECR using "Add new document".

USB PD CTS ENGINEERING CHANGE NOTICE FORM

Name: Anand Email: anand@graniteriverlabs.in

Company: Granite River Labs Mailstop: _____

Address: _____

City: _____ State/Province: _____

Country: _____ Zip/Postal Code: _____

Phone: _____ FAX: _____

Name: _____ Email: _____

Company: _____ Mailstop: _____

Address: _____

City: _____ State/Province: _____

Country: _____ Zip/Postal Code: _____

Phone: _____ FAX: _____

Name: _____ Email: _____

Company: _____ Mailstop: _____

Address: _____

City: _____ State/Province: _____

Country: _____ Zip/Postal Code: _____

Phone: _____ FAX: _____

Name: _____ Email: _____

Company: _____ Mailstop: _____

Address: _____

City: _____ State/Province: _____

Country: _____ Zip/Postal Code: _____

Phone: _____ FAX: _____

USB PD CTS ENGINEERING CHANGE NOTICE FORM

Title: TEST.PD.EPR.SRC3.14 EPR mode - EPR_Request with incorrect copy of PDO

Applied to: USB PD3 CTS r1.4 V6_OR

Brief description of the functional changes proposed:
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1. New test case to test the incorrect copy of PDO in EPR_Request

Benefits as a result of the proposed changes:
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1. To make sure that the EPR_SRC_UUT verifying the EPR_Request correctly.

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

none

An analysis of the software implications:
--

None

An analysis of the compliance testing implications:
--

Compliance tester needs to be updated

An analysis of the Vendor Info File (VIF) implications:
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None

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Actual Change Requested

(a). Section x.x.x, Page x, Figure/Table x-x

TEST.PD.EPR.SRC3.14 EPR mode - EPR_Request with incorrect copy of PDO

Description: The Tester as a sink verifies the UUT responds with Reject for EPR_Request with incorrect copy of PDO.

Test Specific Tester Behavior:

Test Conditions:

This test is applicable if the VIF parameter EPR_Supported_As_Src is set to Yes.

	Consumer Only	Provider Only	DRP, C/P, P/C
Rev3ChkdSrc		✓	✓
Rev3UnchkdSrc		✓	✓

Test Procedures:

- There are 2 possible bring-up procedures:
 - The UUT has VIF field PD_Port_Type set to Consumer/Provider, the Tester runs bring-up procedure with the UUT as a Source COMMON.PROC.BU.7.
 - The UUT has VIF field PD_Port_Type set to anything else, the Tester runs bring-up procedure with the UUT as a Source COMMON.PROC.BU.1.
- The check fails if the "EPR mode capable" field is set to 0 in the *Source_Capabilities* Message sent by UUT during the bring up procedure and the test stops here. [TEST.PD.EPR.SRC3.14#1]
- The Tester sends an *EPR_Mode*(Enter) Message with the Action field set to 0x01(Enter) and Data field set to 140 (140W) and enters EPR mode using common procedure COMMON.PROC.PD3.5. [TEST.PD.EPR.SRC3.14#2]
- Tester sends an *EPR_Request* Message with Object Position set to 1, Operating Current and Maximum Operating Current set to 100mA and copy of PDO field set to the second PDO of the latest *EPR_Source_Capabilities* Message.
- The check fails if the UUT does not respond with a *Reject* Message. [TEST.PD.EPR.SRC3.14#3]