

UCSI ENGINEERING CHANGE REQUEST FORM

NOTICE: Any Company or Companies submitting a UCSI ECR proposal must be one of the following: a Promoter or Contributor of the UCSI 3.0 Specifications who have completed the UCSI addendum. If a group of Companies is submitting an ECR proposal, each company must be either a Promoter or Contributor of the UCSI 3.0 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 UCSI specification, 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 UCSI 3.0 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 UCSI 3.0 Promoters may submit requests to revise the UCSI Specification. Such a request may be rejected or may result in a UCSI 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 UCSI Specification may do so by posting this to the USB Newark Software UCSI working group for review. Once the proposal has been reviewed by the working group it will be passed to the UCSI 3.0 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 UCSI 3.0 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 "UCSI 3.x R 1" followed by the ECR Title as per step 1)b)
- 4) Post the ECR in the UCSI Documents section under "ECR | New ECRs".
 - a) This ECR will then be reviewed by the USB Newark Software 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".

UCSI ENGINEERING CHANGE REQUEST FORM

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UCSI ENGINEERING CHANGE REQUEST FORM

City: _____ State/Province: _____
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UCSI ENGINEERING CHANGE REQUEST FORM

Title: Extended Operation Mode Clarification

Applied to: UCSI Specification Version 3.0 Revision 1

Brief description of the functional changes proposed:
This ECR updates the Extended Operation Mode of the GET_CONNECTOR_CAPABILITIES command to align with the latest approved ECR for GET_CONNECTOR_STATUS.ConnectorPartnerFlag, using a single bit to represent all USB4 speeds.

Benefits as a result of the proposed changes:
Simplifies LPM/PPM implementation for reporting USB4 capability while meeting OPM requirements.

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
Minimal impact on the current/existing specifications. Bit 0 remains backward compatible with UCSI versions < 3.0, while bits 3 and 4 are deprecated.

An analysis of the hardware implications:
There are no hardware implications.

An analysis of the software implications:
If the connector supports USB4, the PPM/LPM shall set bit 0 to indicate USB4 capability, and the OPM shall determine USB4 capability based on bit0.

An analysis of the compliance testing implications:
There are no compliance testing implications.

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Actual Change Requested

(a). Section 6.5.7, Page 40, Table 6-17:
GET_CONNECTOR_CAPABILITY Command

From Text:

14	<i>Extended Operation Mode</i>	8		
			Bit	Meaning
			0	USB4 Gen 2
			1	EPR Source
			2	EPR Sink
			3	USB4 Gen 3
			4	USB4 Gen 4
			5-7	Reserved

To Text:

14	<i>Extended Operation Mode</i>	8		
			Bit	Meaning
			0	USB4
			1	EPR Source
			2	EPR Sink
			3	Deprecated
			4	Deprecated
			5-7	Reserved