

# UCSI ENGINEERING CHANGE NOTICE FORM

## Title: Adding PD Revision for Partners and Cables Applied to: UCSI Specification Version 2.0 Revision 1

### Brief description of the functional changes:

(1) Update GET\_CONNECTOR\_CAPABILITY data and GET\_CABLE\_PROPERTY data to include PD major revision information for partners and cables, respectively. (2) Add Get\_Revision/Revision to the GET\_PD\_MESSAGE command for requesting minor revisions.

### Benefits as a result of the changes:

This change will allow systems following the UCSI specification to accurately process information about partners and cables returned in GET\_PD\_MESSAGE data.

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

The definitions of GET\_CONNECTOR\_CAPABILITY data, GET\_CABLE\_PROPERTY data and GET\_PD\_MESSAGE command will be updated.

### An analysis of the hardware implications:

N/A

### An analysis of the software implications:

The PD controller will need to store the 2-bit major revision field from the PD message header in GET\_CONNECTOR\_CAPABILITIES data for SOP messages and CABLE\_PROPERTY data for SOP' messages. Additionally, it will need to be able to send the Get\_Revision control message defined in the USB PD Revision 3.1 specification.

### An analysis of the compliance testing implications:

Compliance testing will need to confirm that cable and partner USB PD major revision information is available in GET\_CABLE\_PROPERTY data and GET\_CONNECTOR\_CAPABILITY data. Additionally, compliance testing should check that the Get\_Revision PD control message is correctly sent to partners and cables.

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## Actual Change Requested

### (a). Table 4-17: GET\_CONNECTOR\_CAPABILITY Data

#### From Text:

27 *Reserved*                      5    Set to zero.

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#### To Text:

27 *Partner PD Revision*                      2    Partner's major USB PD Revision from the Specification Revision field of the USB PD Message Header

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29 *Reserved*                                      3    Set to zero.

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### (b). Table 4-40: GET\_CABLE\_PROPERTY Data

#### From Text:

30 *Reserved*                      2    Reserved and shall be set to zero.

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#### To Text:

30 *Cable PD Revision*                      2    Cables's major USB PD Revision from the Specification Revision field of the USB PD Message Header

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### (c). Table 4-51 GET\_PD\_MESSAGE Command

#### From Text:

42 *Response Message Type*                      6

Value	PD Response Message	Corresponding PD Request Message
0	Sink_Capabilities_Extended (Extended Message)	Get_Sink_Cap_Extended
1	Source_Capabilities_Extended (Extended Message)	Get_Source_Cap_Extended
2	Battery_Capabilities (Extended Message)	Get_Battery_Cap
3	Battery_Status (Data Message)	Get_Battery_Status
4	Discover Identity Response – ACK, NAK or BUSY (Structured VDM)	Discover Identity Request
5-63	Reserved	Reserved

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## To Text:

42 *Response* 6  
*Message Type*

<b>Value</b>	<b>PD Response Message</b>	<b>Corresponding PD Request Message</b>
0	Sink_Capabilities_Extended (Extended Message)	Get_Sink_Cap_Extended
1	Source_Capabilities_Extended (Extended Message)	Get_Source_Cap_Extended
2	Battery_Capabilities (Extended Message)	Get_Battery_Cap
3	Battery_Status (Data Message)	Get_Battery_Status
4	Discover Identity Response – ACK, NAK or BUSY (Structured VDM)	Discover Identity Request
5	Revision (Data Message)	Get_Revision
6-63	Reserved	Reserved