

USB Power Delivery ENGINEERING CHANGE NOTICE

Title: Correct invalid country code string in Country_Info
Applied to: USB Power Delivery Specification Revision 3.1
Version 1.8

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| Brief description of the functional changes proposed: |
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| This ECN corrects the string sent in response to Get_Country_Info with an unrecognized country code. |
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| This ECN also correct the minimum length of response bytes in the “Country Specific Data” field from 0 to non-zero value. |
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| Benefits as a result of the proposed changes: |
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| The null terminated string as mentioned in present specification exceeds the maximum allowed length of 26-bytes in the CIDB data block of Country_Info. So this ECR ensures that the new string will fit within 26-bytes CIDB block. |
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| An assessment of the impact to the existing revision and systems that currently conform to the USB specification: |
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| I don't see a compliance tests that checks the response to Get_Country_Info with an unrecognized Country Code value. It also possible that existing systems have been responding with Not_Supported response to Get_Country_Info with an unrecognized country code. As a result, this issue has not been seen in compliance tests. |
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| An analysis of the hardware implications: |
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| An analysis of the software implications: |
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| The PD controllers will have to be updated to correct the minimum length and contents of CIDB as proposed in this ECR |
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| An analysis of the compliance testing implications: |
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| A compliance test has to be added that validates the DUT response to an invalid Country_Code in Get_Country_Info message. The tester should also check and make sure that the # of bytes in the “Country Specific Data ” field in returned CIDB is non-zero. |
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Actual Change Requested

(a). Section 6.5.12 Country_Info Message, Page 208, Table 6-64

From Text:

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|---|-----------------------|---|
| 4 | Country Specific Data | 0...22 bytes of content defined by the country's authority. |
|---|-----------------------|---|

To Text:

| | | |
|---|-----------------------|---|
| 4 | Country Specific Data | 1 ...22 bytes of content defined by the country's authority. |
|---|-----------------------|---|

(b). Section 6.5.12.2 Country_Info Message, Page 208

From Text:

If the Country Code field in the Get_Country_Info Message is unrecognized the Country Specific Data field Shall return the null terminated ascii text string “**Unsupported Country Code**”.

To Text:

If the Country Code field in the Get_Country_Info Message is unrecognized **then** the Country Specific Data field Shall return the null terminated ascii text string “**Unsupported Code**”.