

# USB TYPE-C AUTHENTICATION ENGINEERING CHANGE NOTICE FORM

**Title: Define USB Device Behavior for Default State and Invalid *wLength***

**Applied to: USB Type-C Authentication Specification  
Revision 1.0**

<b>Brief description of the functional changes:</b>
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Specifies that USB device responds with Request Error when gets Auth request in Default state. Also, adds that invalid <i>wLength</i> is a Request Error.
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<b>Benefits as a result of the proposed changes:</b>
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Disallows undesirable/unsecure behavior when device is in Default state or gets request with invalid <i>wLength</i>
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<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
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Minimal
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<b>An analysis of the hardware implications:</b>
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<b>An analysis of the software implications:</b>
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<b>An analysis of the compliance testing implications:</b>
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Will require additional compliance testing.
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## Actual Change

### (a). Section 7.2.1

#### From Text:

The behavior of a USB Device is not specified if *wLength*, *wIndex*, or *wValue* for a particular Response type do not match the values set forth in this section. Otherwise, the following behavior is expected for the given USB Device state:

Default	Not specified.
Address	Request is valid and Device shall respond.
Configured	Request is invalid and Device shall respond with a Request Error.

#### To Text:

A USB Device shall respond with a Request Error if *wLength* for a particular Response type does not match the values set forth in this section. The behavior of a USB Device is not specified if *wIndex* or *wValue* for a particular Response type do not match the values set forth in this section. Otherwise, the following behavior is expected for the given USB Device state:

Default	Request is invalid and Device shall respond with a Request Error.
Address	Request is valid and Device shall respond.
Configured	Request is invalid and Device shall respond with a Request Error.

### (b). Section 7.2.2

#### From Text:

The behavior of a USB Device is not specified if *wLength*, *wIndex*, or *wValue* for a particular Response type do not match the values set forth in this section. Otherwise, the following behavior is expected for the given USB Device state:

Default	Not specified.
Address	Request is valid and Device shall respond.
Configured	Request is invalid and Device shall respond with a Request Error.

#### To Text:

A USB Device shall respond with a Request Error if *wLength* for a particular Response type does not match the values set forth in this section. The behavior of a USB Device is not specified if *wIndex* or

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*wValue* for a particular Response type do not match the values set forth in this section. Otherwise, the following behavior is expected for the given USB Device state:

Default	Request is invalid and Device shall respond with a Request Error.
Address	Request is valid and Device shall respond.
Configured	Request is invalid and Device shall respond with a Request Error.