# USB4 1.0 ENGINEERING CHANGE NOTICE FORM

## Title: Change C3S Bit Polarity
## Applied to: USB4 Specification Version 1.0

| Brief description of the functional changes: |
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| Changes the polarity of the Connection Manager TBT3 Support bit. |

| Benefits as a result of the changes: |
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| Current Connection Managers don't set this bit, even though TBT3-compatibilty is supported. Changing the polarity will help support the current eco-system. |

| An assessment of the impact to the existing revision and systems that currently conform to the USB specification: |
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| None |

| An analysis of the hardware implications: |
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| None |

| An analysis of the software implications: |
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| None |

| An analysis of the compliance testing implications: |
|---|
| None |

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## Actual Change

### (a). Table 8-3, Router Configuration Space Basic Attributes, Page 278

#### From Text:

| 5 | ROUTER_CS_5 | 23 | **CM TBT3 Support (C3S)**<br><br>This bit identifies if a USB4 Connection Manager is TBT3-Compatible:<br><br>    0b – Not TBT3-Compatible<br><br>    1b – TBT3-Compatible<br><br>A TBT3 Connection Manager does not write to this bit.<br><br>A Router shall ignore this bit if the *Configuration Valid* bit is set to 0b. | R/W | 0b |

#### To Text:

| 5 | ROUTER_CS_5 | 23 | **CM TBT3 Not Supported (C3NS)**<br><br>This bit identifies if a USB4 Connection Manager is TBT3-Compatible:<br><br>    10b – Not TBT3-Compatible<br><br>    01b – TBT3-Compatible<br><br>A TBT3 Connection Manager does not write to this bit.<br><br>A Router shall ignore this bit if the *Configuration Valid* bit is set to 0b.<br><br>This field does not apply to Host Routers. | R/W | 0b |