# USB Type-C ENGINEERING CHANGE NOTICE

## Title: Section 4.4.3 VCONN Clarification
## Applied to: USB Type-C Specification Release 2.1, May 2021

| **Brief description of the functional changes proposed:** |
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| Clarifies the initial VCONN sourcing requirements by removing a conflicting requirement statement from Section 4.4.3 and referring to the Attached.SRC (Section requirements regarding when VCONN should be initially sourced. |

| **Benefits as a result of the proposed changes:** |
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| Improves clarity of the VCONN requirement. |

| **An assessment of the impact to the existing revision and systems that currently conform to the USB specification:** |
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| No impact expected as it is believed that existing solutions already line with Section 4.5.2.2.9.1 independent of the apparently misdirection of Section 4.4.3. Change intends to guard against future misinterpretation. |

| **An analysis of the hardware implications:** |
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| N/A |

| **An analysis of the software implications:** |
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| N/A |

| **An analysis of the compliance testing implications:** |
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| N/A |

# Actual Change Requested

## Changes highlighted in modified text and figures

#### 4.4.3 VCONN

VCONN is provided by the Source to power cables with electronics in the plug. VCONN is provided over the CC pin that is determined not to be connected to the CC wire of the cable.

Initially, VCONN ~~shall be~~is sourced on ~~all~~ Source USB Type-C receptacles ~~that utilize the TX and RX pins during specific connection states as described~~based on the Attached.SRC requirements in Section 4.5.2.2.9.1. Subsequently, if VCONN is not explicitly required by the cable or device as indicated in its eMarker, VCONN may be removed as described in Table 4-4. ~~VCONN may also be sourced by USB Type-C receptacles that do not utilize the TX and RX pins as described in Section 4.5.2.2.~~ *USB PD* VCONN_Swap command also provides the Source a means to request that the attached Sink source VCONN.