

# USB4 1.0 ENGINEERING CHANGE NOTICE FORM

**Title: Change in CL0s to CL1 Flow**

**Applied to: USB4 Specification Version 1.0**

<b>Brief description of the functional changes:</b>
When a Port is in CL0s TX and it receives a CL1/2_REQ it shall respond according to the rules for a responding Port in the entry flow or with CL_NACK.

<b>Benefits as a result of the changes:</b>
Reducing the exit time from CL0s to CL0 and allow a flow to bring the Link to active state

<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
None

<b>An analysis of the hardware implications:</b>
None

<b>An analysis of the software implications:</b>
None

<b>An analysis of the compliance testing implications:</b>
Need to verify Port can detect and behave accordingly when receiving CL1_ACK, CL0s_ACK and CL_NACK.

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## Actual Change

### (a). Section 4.2.1.6.5, Exit from State, Page 160

#### To Text:

1. Transition to CL0 state.
  - If the USB4 Port operated as a Dual-Lane Link prior to entry to CL0s state, the USB4 Port shall resume operation as a Dual-Lane Link independent of the setting of the TS2 Ordered Sets. A de-skew Ordered Set shall be sent as defined in Section 4.4.4. The scrambler shall load a new seed as defined in Section 4.3.5.
  - If the Router initiated exit from CL0s state due to receiving CL1\_REQ or CL2\_REQ Ordered Sets, then the Router shall not send any Transport Layer Packets before responding to the request Ordered Sets according to the rules in section 4.2.1.6.2 or with CL NACK. The Router shall resume regular CL0 operation once it stops sending the CL NACK Ordered Sets. ~~The Router shall not send any Transport Layer Packets before completing the CLx entry flow~~