USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: LT_LRoff While Disabled
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:
Changes the behavior of a Port that receives an LT_LRoff Transaction when the Lane 0 Adapter in the Port is Disabled.

Benefits as a result of the changes:
A disabled Port shouldn't respond to any LT_LRoff transactions.

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

An analysis of the hardware implications:
None

An analysis of the software implications:
None

An analysis of the compliance testing implications:
When checking LT_LRoff reception, need to verify that Lane 0 Adapter is not Disabled.

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Actual Change

(a). Section 4.4.5.2.2, LT_LRoff Transaction is Received, Page 267
To Text:

When a Downstream Facing Port receives an LT_LRoff Transaction, the *Lane Disabled* bit in the Lane 0 Adapter Configuration Capability is set to 0b, and the *Enter Sleep* bit in the Router Configuration Space is set to 0b, the Port is disconnected and shall:

- Send an LT_LRoff Transaction.

- Discard any Transport Layer Packets received from the Ingress Port(s) on the Router, The Port discards packets for a Path until the Valid bit in Path Configuration Space transitions from 0b to 1b.

- Transition its Adapters to the CLd state.