

USB4 2.0 ENGINEERING CHANGE NOTICE FORM

Title: Clarification on Unplug Packet After Gen 4 Recovery Applied to: USB4 Specification Version 2.0

Brief description of the functional changes:

When a Router performs a Gen 4 Recover flow, it is not required to send an Unplug Packet since Router configurations are retained.

Benefits as a result of the changes:

Clarifies requirements for when to send an Unplug Packet.

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:

Need to verify that a Router doesn't send Unplug Packet as part of the Gen 4 Recovery flow.

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Actual Change

(a). Section 4.2.1.3.3 – Exit from State (Training)

To Text:

A Hot Plug Event Packet shall be sent upon transitioning to CL0 state if all the following are true:

- ~~The~~ Adapter is part of a Downstream Facing Port.
- ~~and it~~The Adapter entered Training state from the CLd state.
- The transition is not part of a Gen 4 Recovery flow.

(b). Section 4.2.1.2.1 – Entry to State (CLd)

To Text:

A Lane Adapter shall set the Plugged bit to 0b upon transitioning to the CLd state unless the transition is part of Gen 4 Recovery flow.

(c). Section 4.2.1.2.2 – Behavior in State (CLd)

To Text:

A Lane Adapter that enters this state due to a disconnect shall perform Lane Initialization starting from Phase 1.

A Lane Adapter shall set the *Plugged* bit to 0b in this state if it detects a disconnect.