

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Disable tTrainingAbort Timeouts in ENTER_EI_TEST Operation

Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

Adds a requirement to disable the tTrainingAbort Timeouts when receiving an ENTER_EI_TEST Port Operation.

Benefits as a result of the changes:

Allows testing for EI on a specific Lane Adapter.

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:

Compliance testing will add a SET_TX_COMPLIANCE Operation for the other Lane Adapter to make sure the timeouts are disabled.

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Actual Change

(a). Section 8.3.2.1.7, ENTER_EI_TEST (Required), Page 378

From Text:

Operation Completion

A Router that receives a ENTER_EI_TEST Port Operation shall transition the Lane transmitter defined in the Operation into electrical idle state.

The Completion for this Operation does not have Completion Metadata.

The Completion for this Operation does not have Completion Data.

To Text:

Operation Completion

After receiving an ENTER_EI_TEST Port Operation, a USB4 Port shall disable the transition from Training state to CLd state due to timeouts (defined in Section 4.2.1.3.3). When the USB4 Port detects SBRX at logical low for tDisconnectRx, it shall re-enable the transition from Training state to CLd state due to timeouts.

A Router that receives an ENTER_EI_TEST Port Operation shall transition the Lane transmitter defined in the Operation into electrical idle state.

The Completion for this Operation does not have Completion Metadata.

The Completion for this Operation does not have Completion Data.