USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Change in Sleep Entry Flow when Port is not Configured

Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:
Adds details about the behavior of a DFP that has an unconfigured Router connected to it.

Benefits as a result of the changes:
Provides a solution to the scenario where a new Router is connected during the Sleep entry flow.

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 behavior when an unconfigured Router is connected to a DFP with Wake on Connect enabled.

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Actual Change

(a). Section 4.5.1, Entry to Sleep, Page 190

From Text:

After a sleep event occurs, the Router shall do the following for each USB4 Port:

- If the *USB4 Port is inter-Domain* bit is 0b, the *USB4 Port is Configured* bit is 0b, and the *Enable Wake on Connect* bit of the USB4 Port is 0b, perform a disconnect by driving its SBTX line low for a minimum of tDisconnectTx.

To Text:

After a sleep event occurs, the Router shall do the following for each USB4 Port:

- If the *USB4 Port is inter-Domain* bit is 0b, and the *USB4 Port is Configured* bit is 0b, ~~and the *Enable Wake on Connect* bit of the USB4 Port is 0b,~~ perform a disconnect by driving its SBTX line low for a minimum of tDisconnectTx. If the *Enable Wake on Connect* bit of the USB4 Port is 1b, the USB4 Port shall drive its SBTX line high after tDisconnectTx.