

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Router Detection Change
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

Device Router only sets SBTX after detecting SBRX on its Upstream Facing Port

Benefits as a result of the changes:

No "Host Present" indication when there is no Host Router

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:
--

Need to add a condition for Router Detection
--

An analysis of the software implications:
--

None

An analysis of the compliance testing implications:
--

Need to add test for SBRX high on DFPs and making sure Routers doesn't set SBTX on other Ports
--

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Actual Change Requested

(a). Section 4.1.2.2

From Text:

When a Device Router detects a logic high on SBRX of any USB4 Port for tConnectRx time, it shall drive SBTX to logic high on all of its USB4 Ports.

To Text:

When a Device Router detects a logic high on SBRX of ~~any USB4~~ its Upstream Facing Port for tConnectRx time, it shall drive SBTX to logic high on all of its USB4 Ports.

(b). Section 6.3.2

From Text:

A Router enters this state from the Uninitialized Unplugged state when it detects a Router on any USB4 Port (see Section 4.1.2.2).

To Text:

A Router enters this state from the Uninitialized Unplugged state when it detects a Router on ~~any USB4~~ its Upstream Facing Port (see Section 4.1.2.2).