

# 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

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## 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).