

# USB4 Re-timer 0.96 ENGINEERING CHANGE NOTICE FORM

**Title: Sideband Wake Forwarding Requirement**  
**Applied to: USB4 Re-timer Specification Version 0.96**

<b>Brief description of the functional changes:</b>
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Adds a requirement to forward a Wake indication over the Sideband Channel.
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<b>Benefits as a result of the changes:</b>
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Allows a Wake to Propagate when Re-timers are present.
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<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
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None
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<b>An analysis of the hardware implications:</b>
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None
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<b>An analysis of the software implications:</b>
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None
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<b>An analysis of the compliance testing implications:</b>
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Will test wake forwarding as part of Router Assembly compliance.
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## Actual Change

### (a). 4.1.3 Wake on USB4 Forwarding, Page

#### To Text:

When a Re-timer detects a Wake on USB4 event on one Port, it shall forward the Wake on USB4 event to its other Port within tForwardWake time. See the USB4 Specification for the definition of a Wake on USB4 event.

### (b). Table 4-6, Page 62

#### To Text:

Parameter	Description	Min	Max	Units
<u>tForwardWake</u>	<u>The time from detecting a Wake on USB4 event on one Port to forwarding the Wake on USB4 event on the other Port.</u>	<u>--</u>	<u>20</u>	<u>ms</u>