USB4 Re-timer 0.96 ENGINEERING CHANGE NOTICE FORM

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

Brief description of the functional changes:

Adds a requirement to forward a Wake indication over the Sideband Channel.

Benefits as a result of the changes:

Allows a Wake to Propagate when Re-timers are present.

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:

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
tForwardWake	The time from detecting a Wake on USB4 event on one Port to forwarding the Wake on USB4 event on the other Port.	--	20	ms