

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Link Management Packets Routing Rules
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

Clarifies the Link Management Packet routing rules for Path Credit Sync Packets.
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Benefits as a result of the changes:

Fixes an ambiguity in the specification.
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An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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None

An analysis of the hardware implications:
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None

An analysis of the software implications:
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None

An analysis of the compliance testing implications:
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None

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Actual Change

(a). 5.2.4.2 Link Management Packets

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Link Management Packets use HopIDs 1 through 7 (inclusive). If the *SuppID* bit is set to 1b, Link Management Packets also use HopIDs greater than 7. Only Lane Adapters route Link Management Packets – a Protocol Adapter does not send or receive Link Management Packets.

The following rules determine how a Lane Adapter routes a ~~Transport Layer Packet with HopID 1 through 7~~Link Management Packet:

- A Transport Layer Packet with a HopID value of 1 shall be forwarded to the Transport Layer for credit management processing. It shall not be forwarded to an Egress Adapter.
- A Transport Layer Packet with a HopID value of 2 shall be dropped and no further action shall be taken on its behalf.
- A Transport Layer Packet with a HopID value of 3 shall be forwarded to the TMU. It shall not be forwarded to an Egress Adapter.
- A Transport Layer Packet with a HopID value of 4 through 7 shall be dropped and no further action shall be taken on its behalf.
- A Transport Layer Packet with a HopID value greater than 7 and the *SuppID* bit set to 1b shall be forwarded to the Transport Layer for credit management processing. It shall not be forwarded to an Egress Adapter.