

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: AUX Reserved Field

Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:
A DP OUT Adapter in TBT3 Compatibility mode needs to generate the AUX Response packet with the Reserved byte equal to the Reserved byte from the AUX Request.

Benefits as a result of the changes:
Updates the Spec to match the ecosystem.

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:
Will need to implement to this ECR.

An analysis of the software implications:
None.

An analysis of the compliance testing implications:
None.

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Actual Change

(a). 13.8.1.2 DP OUT Adapter Requirements

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A DP OUT Adapter operating in TBT3-Compatible mode follows the requirements listed in Section 10.4.2.2 except ~~the following: that initiation~~

- Initiation of an AUX Transaction occurs for the following processes:
 - DPRX Capability Discovery – Defined in Section 13.8.3.2.
 - IRQ Handling – Defined in Section 13.8.2.
- A DP OUT Adapter operating in TBT3-Compatible mode shall set the Reserved field in an AUX Response Tunnel Packet to be equal to value it received in the corresponding AUX Request Tunnel Packet.

Note: A DP OUT Adapter operating in TBT3-Compatible mode could receive the Reserved byte at the end of the AUX Tunneled Packet with value other than zero.