

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: DP Resource Allocation

Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:
1. A repeated Allocate DP Resource Operation is successful if a DP resource was previously allocated. 2. Allocated DP Resources are retained through Sleep cycle.

Benefits as a result of the changes:
More robust definition of the feature and enhanced user experience over Sleep cycles.

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:
None

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Actual Change

(a). Table 8-26

Table 8-26. Allocate DP Resource Completion Metadata and Status

Field	Bit(s)	Description
<i>Metadata</i>	31:0	DisplayPort Number This field contains the <i>DisplayPort Number</i> value from the Operation Metadata.
<i>Status</i>	29:24	Status 0h: Resource was allocated 1h: Resource was not allocated 2h – Fh: Reserved <u>If a resource was already allocated to this DP IN Adapter by a previous Allocate DP Resource Operation, then a Router shall respond with Status = 0h.</u>

(b). Table 4-42

Add an entry at the end of the table.

Table 4-42. Router State Retained During Sleep

Field Copied	Configuration Space / Capability	Value
<u>DP Resource Allocation</u>	--	<u>Which DP Resources were allocated to which DP IN Adapters prior to sleep entry.</u>