USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: DP DSC Features Dependency
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

A DP Adapter that supports DSC must support FEC. A DP OUT Adapter must support SDP Split. A DP IN Adapter must support SDP Split unless it is integrated with a DPTX which doesn't support this feature.

Benefits as a result of the changes:

Align to the rules of DP 1.4a Spec and avoid potential interoperability issues.

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:

Add this check to DP CTS

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Actual Change

(a). Table 8-15

Table 8-15. DP IN Adapter Configuration Capability Fields

DW	Register Name	Bit(s)	Field Name and Description	Type	Default Value
4	DP_LOCAL_CAP	25	**FEC Not Supported** 0: Supported 1: Not supported A DP Adapter shall set this bit to 0b if it sets *DSC Not Supported* bit to 0b	RO	Vendor Defined
		26	**Secondary Split Capability** 0: Not Supported 1: Supported A DP IN Adapter shall set this bit to 1b unless it is integrated with a DPTX which doesn't support SDP Split.	RO	Vendor Defined
		29	**DSC Not Supported** 0: Supported 1: Not supported	RO	Vendor Defined

(b). Table 8-16

Table 8-16. DP OUT Adapter Configuration Capability Fields

DW	Register Name	Bit(s)	Field Name and Description	Type	Default Value
4	DP_LOCAL_CAP	25	**FEC Not Supported** 0: Supported 1: Not supported A DP Adapter shall set this bit to 0b if it sets *DSC Not Supported* bit to 0b	RO	Vendor Defined
		26	**Secondary Split Capability** 0: Not Supported 1: Supported A DP OUT Adapter shall set this bit to 1b	RO	~~Vendor Defined~~ 1
		29	**DSC Not Supported** 0: Supported 1: Not supported	RO	Vendor Defined