

USB4 1.0 ENGINEERING CHANGE NOTICE FORM

Title: Adding Disable Time Sync (DTS) Bit to TMU_ADP_CS_6
Applied to: USB4 Specification Version 1.0

Brief description of the functional changes:

Adds a bit that allows the CM to disable Time Sync handshakes on Adapter level
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Benefits as a result of the changes:

New required bit in TMU_ADP_CS_6

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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Adding a bit that disables TMU Handshakes

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). Section 8.2.2.2, Table 8-11 Page 295

From Text:

DW	Register Name	Bit(s)	Field Name and Description	Type	Default Value
6	TMU_ADP_CS_6	15:0	Reserved	RsvdZ	0
		31:16	Vendor Defined	VD	Vendor Defined

To Text:

DW	Register Name	Bit(s)	Field Name and Description	Type	Default Value
6	TMU_ADP_CS_6	0	Reserved	RsvdZ	0
		<u>1</u>	<u>Disable Time Sync (DTS)</u> <u>A Connection Manager uses this bit to disable Time Synchronization Handshake initiation.</u> <u>If set to 1, the Adapter shall not send any Delay Requests or Delay Responses.</u> <u>If set to 0b, the Adapter may send Delay Requests or Delay Responses.</u>	<u>R/W</u>	<u>0</u>
		15:2	Reserved	RsvdZ	0
		31:16	Vendor Defined	VD	Vendor Defined

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(b). Section 8.2.2.2, Figure 8-8 Page 293

From Text:

Figure 8-8. Structure of the TMU Adapter Configuration Capability

31											0			
Reserved					Capability ID			Next Capability Pointer			0			
TxTimeToWire											1			
RxTimeToWire											2			
I D S	I D M	U D M	Reserved								3			
TX TSNOS counter					RX TSNOS counter						4			
TX Packet counter					RX Packet counter						5			
Reserved										D C 2	D C 1	D T S	R s v d	6
Rsvd	Bad Packet Counter				Lost Packet Counter				Lost TSNOS Counter				7	

To Text:

Figure 8-8. Structure of the TMU Adapter Configuration Capability

31																0		
Reserved								Capability ID				Next Capability Pointer				0		
TxTimeToWire																1		
RxTimeToWire																2		
I D S	I D M	U D M	Reserved													3		
TX TSNOS counter								RX TSNOS counter								4		
TX Packet counter								RX Packet counter								5		
Vendor Defined								Reserved								D T S	Rsvd	6
Rsvd		Bad Packet Counter						Lost Packet Counter						Lost TSNOS Counter				7