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 $17 \\ 18$

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Table 79–6—PSE allocated power value field

Bit	Function	Value/meaning
15:0	PSE allocated power value	Power = $0.1 \times$ (decimal value of bits) Watts.Power expressed in units of $0.1 W$.Valid values for these bits are decimal 1 through 255999.

where

Power	is the effective allocated PSE power value
X	is the decimal value of the power value field, bits 15:0

"PSE allocated power value" is the maximum input average power (see 33.3.8.2 and 145.3.8.2) the PSE expects the PD to draw. "PSE allocated power value" is the power at the input to the PD's PI. The PSE uses this value to compute P_{Class} defined in 33.2.7 and 145.2.7.

Not part of the changes: 1. Sections related to DS devices only do not indicate this. Therefore the text incorrectly applies to all devices.

- 2. Some DS cross references are incorrect.
- 3. Values for Type 1,2 and SS devices are not provided.

Insert 79.3.2.6a through 79.3.2.6f after 79.3.2.6 as follows:

79.3.2.6a Dual-signature PD requested power value Mode A and Mode B

 The <u>"Dual-signature PD</u> requested power value <u>Mode A and Mode B"</u> field shall contain the PD's requested power value defined in Table 79–6a.
 21

 For Type 3 and Type 4, the value should be (PD requested power value Mode A + PD requested power value <u>22</u>
 22

 Mode B). For Type 3 and Type 4, the PD requested power field defined in Table 79.3.2.5 is the sum of the <u>23</u>
 23

 PD requested power values defined in Table 79–6a.
 24

Table 79–6a—Dual-signature PD requested power value field for Mode A and Mode B field $_{26}$

Bit	Function	Value/meaning
15:0	Dual-signature_PD requested power value Mode A	Power expressed in units of 0.1 W. Valid values for these bits are decimal 1 through 499.
15:0	Dual-signature PD requested power value Mode B	Power expressed in units of 0.1 W. Valid values for these bits are decimal 1 through 499.

The value for the <u>"Dual-signature PD requested power value</u> Mode A" field <u>shall indicate should be (PD requested power value</u> <u>--the PD requested power value for Mode BA)</u>. 35

The value for the <u>"Dual-signature PD requested power value</u> Mode B<u>"</u> field <u>should shall</u> be <u>the (PD requested power value</u> <u>PD requested power value for Mode A)B</u>. 36

"<u>Dual-signature</u> PD requested power value Mode A" and "<u>Dual-signature</u> PD requested power value Mode B" are the maximum input 38

average power levels (see <u>145.3.8.2</u>) the PD wants to draw for the respective pairset. "<u>Dual-signature PD</u> requested power 39 value Mode A" and "<u>Dual-signature PD</u> requested power value Mode B" are the power values at the input to the PD's PI.<u>Type</u> <u>1</u>, <u>Type 2</u>, and <u>single-signature Type 3</u> and <u>Type 4 PDs</u>, all place 0 in the "<u>Dual-signature PD requested power value Mode A</u>" and "<u>Dual-signature PD requested power value Mode B</u>" fields. 40

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L	Draft Amendment to IEEE Std 802.3-2015 IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force	IEEE <i>Draft</i> P802.3bt/D2.3 12 February 2017	
	79.3.2.6b PSE allocated power value Alternative A and Alternative B		42 43
The	PSE allocated power value Alternative A and Alternative B" field Alternati	ve A and the PSE allocated power	value
	field Alternative A	•	44
	shall contain the PSE's allocated power value for Alternative A and Alternative	B respectively, defined in	45
	Table 79-6b. For Type 3 and Type 4, the PSE allocated power value field defin	ed in Table 79.3.2.5 is the	<u>—46</u>
	sum of the PSE allocated power values defined in Table 79-6b.		47 48
The	value for the "PSE allocated power value Alternative A" field should shall be (indicate the PSE allocated power va	ılue –
	PSE allocated power value for		49
Α	lternative <u>AB</u> . The value for the <u>"PSE allocated power value</u> Alternative B" field sl	ould be (shall indicate the PSE allo	cated
	power value - PSE allocated		50
	power value<u>for</u> Alternative <u>AB</u>.		51 52
	"PSE allocated power value Alternative A" and "PSE allocated power value A	Iternative B" are the maxi-	53
m	$\frac{145.3.8.2}{1}$ the PSE expects the connected dual	<u>1-signature</u> PD to draw on the respe	cuve

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Alterna-

Bit	Function	Value/meaning	
15:0	PSE allocated power value Alternative A	Power expressed in units of 0.1 W. Valid values for these bits are decimal 1 through 499.	
15:0	PSE allocated power value Alternative B	Power expressed in units of 0.1 W. Valid values for these bits are decimal 1 through 499.	
tives. "PSE r levels at the	allocated power value Alternational input to the dual-signature PD	ative A ^{\prime} and "PSE allocated power value Alternative B ^{\prime} are the 's PL The PSE uses this value to compute P _{Class} ap defined in 145.2.7 A l	P.S
ding power to	a Type 1, Type 2, and single-	signature Type 3 and Type 4 PD, place 0 in the 11 "PSE allocated power"	va
native A" and	1 "PSE allocated power value	Alternative B" fields.	
79.3.2.6c	Power status		
The power	status field shall contain the P	SE's hit man of the DSE power pair and DSE or DD power class	
defined in 7	Table 79–6a, and is reported for	the device generating the TLV	
	able 79–6a, and is reported for	The device generating the TLV.	
79.3.2.6c.	1 PSE power pairsx		
The PSE po	ower pairsx field shall contain	an integer value for PSE power pairs defined by 145.2.4. A TLV	
generated b	y a PD shall set the field to 00.		
79.3.2.6c.	2 <u>Dual-signature</u> Power Cla	assx Mode A	
. 4 1	mais DD this field shall be ast	te the memorie d Class of the dual signature DD for Made A during Disusi	
al Lavor Clas	sification as defined in 145.3 6	to the requested Class of the dual-signature PD for Mode A during Physi-	~
this field sh	all be set to the PSEs	. when the power type is r SE and the r SE is connected to a dual-signatur	<u> </u>
gned Class fo	r Alternative A as defined in 1	45.2.7. PSEs connected to a Type 1, Type 2, or single-signature PD-and si	in
signature P	Ds-set this field to value 0.		
70 0 0 0 .			
79.3.2.6C.	3 <u>Dual-signature</u> Power Cla	assx Mode B	
the new or to	mais PD this field shall be set	to the requested Class of the dual signature PD for Mode P during Physic	
aver Classific	pation as defined in 145.3.6 W	to the requested Class of the <u>dual-signature</u> D for Wode D during r hysi-)
field shall b	e set to the PSEs	and the power type is roll and the roll is connected to a data signature re-	-
gned Class fo	r Alternative B as defined in 1	45.2.7. PSEs connected to a <u>Type 1, Type 2, or single-signature PD</u> and si	İ.
signature P	Ds-set this field to value 0.		
70.0.0.0.			
/9.3.2.60.4	4 Power Classx		
When the r	ower type is PD this field she	Il he set to the requested Class of the DD during Drusical Lawer	
Classificati	on as defined in 145.3.6 When	the power type is PSE this field shall be set to the PSEs assigned	
Class as de	fined in 145.2.7. PSEs connect	ed to a dual-signature PD and dual-signature PDs set this field to	
value 15.			
79.3.2.6d	System setup		
The System	setup field shall contain the d	evice bit-map of the Power typex, PD 4PID, and PD Load defined	
in Table 79	-6b and is reported for the dev	ice generating the TLV. The value of the System setup field trans-	
mitted by a	PSE is undefined and shall be	made 0.	
70 0 0 0 1			

79.3.2.6d.1 Power typex

This field shall be set according to Table 79–6b.

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Bit	Function	Value/meaning
15:13	Reserved	Transmit as zero. Ignore on receive.
12:11	PSE power pairsx	$\begin{array}{cccc} \underline{6} & \underline{5} \\ 1 & 1 & = \text{Both Alternatives} \\ 1 & 0 & = \text{Alternative B} \\ 0 & 1 & = \text{Alternative A} \\ 0 & 0 & = \text{Reserved/Ignore} \end{array}$
10	Reserved	Transmit as zero. Ignore on receive.
9:7	Dual-signature Power Classx Mode A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6:4	Dual-signature Power Classx Mode B	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
3:0	Power Classx	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Table 79–6a—Power status field

79.3.2.6d.2 PD 4PID

This field shall be set according to Table 79–6b when the power type is PD. This field shall be set to 0 when the power type is PSE. This field shall be set to '1' when the power type is Type 3 PD or Type 4 PD.

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