

	8802-3/802.3 REVISION REQUEST 1183	1
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DATE:	19th Sep, 2006	5
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REQUESTED REVISION:		10
STANDARD:	IEEE Std 802.3an-2006	11
CLAUSE NUMBER:	45.2.1.60	12
CLAUSE TITLE:	10GBASE-T pair swap and polarity register	13
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PROPOSED REVISION TEXT:		15
802.3an-2006 page 32		16
802.3an D4.0 page 42 line 25		17
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In table Table 45-49, change the description for bits 1.130.1:0 (MDI/MDI-X connection) from:		20
"1 1 = No crossover		21
1 0 = Pair A/B crossover only		22
0 1 = Pair C/D crossover only		23
0 0 = Pair A/B and pair C/D crossover "		24
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to:		26
"1 1 = No crossover		27
1 0 = Reserved		28
0 1 = Reserved		29
0 0 = Pair A/B and pair C/D crossover "		30
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RATIONALE FOR REVISION:		33
The current table description of 1.130.1:0 does not match the text description (see text below). 45.2.1.60.5 states that bits 1.130.1:0		34
indicate the resolution of the automatic MDI/MDI-X configuration defined		35
in section 55.4.4. 55.4.4 state that automatic MDI/MDI-X configuration		36
shall comply with 40.4.4.1 and 40.4.4.2. However, the only resolution of		37
the auto MDI/MDI-X function specified by 40.4.4.1 and 40.4.4.2 will be		38
either no crossover (1.130.1:0 = 11) or pair A/B and pair C/D crossover		39
(1.130.1:0 = 00). Pair A/B crossover only (1.130.1:0 = 10) and pair A/B		40
crossover only (1.130.1:0 = 01) are not valid resolutions of the		41
automatic MDI/MDI-X configuration specified in 40.4.4.1 and 40.4.4.2.		42
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45.2.1.60.5 MDI/MDI-X connection (1.130.1:0)		46
Bits 1.130.1:0 indicate the resolution of the automatic MDI/MDI-X		47
configuration defined in section 55.4.4. This function is intended to		48
eliminate the need for crossover cables between similar devices. The		49
automatic configuration method used shall comply with 40.4.4.1 and		50
40.4.4.2.		51
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55.4.4 Automatic MDI/MDI-X configuration
Automatic MDI/MDI-X configuration is intended to eliminate the need for
crossover cables between similar devices. Automatic MDI/MDI-X
configuration is required for 10GBASE-T devices and shall comply with
40.4.4.1 and 40.4.4.2.

IMPACT ON EXISTING NETWORKS:

None. This is a clarification of the use of bits 1.130.1:0.

Please attach supporting material, if any
Submit to:- Bob Grow, Chair IEEE 802.3
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----- For official 802.3 use -----
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| For information about this Revision Request see -
http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1183