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|                  8802-3/802.3 REVISION REQUEST 1203                  |      2
+----------------------================================================+      3
                                                                              4
DATE:                   7th Jan, 2009                                         5
NAME:                   Fred Schindler                                        6
COMPANY/AFFILIATION: Cisco Systems, Cisco Systems                             7
E-MAIL:                 frs@cisco.com                                         8
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REQUESTED REVISION:                                                          11
   STANDARD:            IEEE Std 802.3-2008                                  12
   CLAUSE NUMBER:    40.8.3.3                                                13
   CLAUSE TITLE:      MDI common-mode output voltage                         14
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PROPOSED REVISION TEXT:                                                      17
Existing Text:                                                               18
The magnitude of the total common-mode output voltage, Ecm_out, on any      19
transmit circuit, when measured as shown in Figure 40-32, shall be less     20
than 50 mV peak-to-peak when transmitting data.                             21
                                                                             22
Change to:                                                                   23
The magnitude of the total common-mode output voltage, Ecm_out, on any      24
transmit circuit, when measured as shown in Figure 40-32, shall be less     25
than 50 mV peak-to-peak when transmitting data.  The frequency of the       26
measurement shall be from 1 MHz to 100 MHz.                                 27
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RATIONALE FOR REVISION:                                                     30
The IEEE 802.3-2008 specification is not consistent with                    31
its common mode noise measurement requirements. Clause 33                   32
specifies a range of 1 MHz to 100 MHz for a power souring                   33
equipment intended to provide 10BASE-T, 100BASE-TX, or 1000BASE-T           34
interoperability.  Other clauses have no concept of a measurement           35
bandwidth. Reducing the measurement bandwidth of common mode                36
measurements will not reduce the compliance of legacy systems.              37
Requiring a PSE to meet unnecessary common mode noise requirements          38
below 1 MHz places an unnecessary cost burden on the system.                39
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IMPACT ON EXISTING NETWORKS:                                                42
None.                                                                       43
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| Please attach supporting material, if any                            |     48
| Submit to:- David Law, Chair IEEE 802.3                              |     49
|            E-Mail: David_Law@ieee.org                                |     50
|                                                                      |     51
| and copy:- Wael William Diab, Vice-Chair IEEE 802.3                  |     52
|            E-Mail: wdiab@broadcom.com                                |     53
|                                                                      |     54
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|              +------- For official 802.3 use -----------+        |          1
|              | REV REQ NUMBER: 1203                      |        |          2
|              | DATE RECEIVED: 7th Jan, 2009              |        |          3
|              | EDITORIAL/TECHNICAL                       |        |          4
|              | ACCEPTED/DENIED                           |        |          5
|              | BALLOT REQ'D YES/NO                       |        |          6
|              | COMMENTS: XX-Xxx-XX Ver: D1.0 Status: R   |        |          7
+-------------+--------------------------------------------+--------------+    8
| For information about this Revision Request see -                     |      9
|http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1203 |     10
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