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|                 8802-3/802.3 REVISION REQUEST 1202                   |      2
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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:   14.3.1.2.5                                               13
   CLAUSE TITLE:       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 of the                19
transmitter, Ecm, measured as shown in Figure 14-14, shall                  20
be less than 50 mV peak.                                                    21
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Change to:                                                                  23
The magnitude of the total common-mode output voltage of the                24
transmitter, Ecm, measured as shown in Figure 14-14, shall                  25
be less than 50 mV peak.  The frequency of the measurement                   26
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: 1202                      |            |      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#REQ1202 |     10
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