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2 | 8802-3/802.3 REVISION REQUEST |
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5 DATE: 10th November, 2015
6 NAME: Valerie Maguire
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10 REQUESTED REVISION:
11 STANDARD: 802.3-2012
12 CLAUSE NUMBER: 1.4
13 CLAUSE TITLE: Definitions
14

15 PROPOSED REVISION TEXT:
16

17 1.4.125 Category 3 balanced cabling: Balanced 100 Ω cables and
18 associated connecting hardware whose transmission characteristics are
19 specified up to 16 MHz (i.e., performance meets the requirements of a
20 Class C link as per ISO/IEC 11801:1995). Commonly used by IEEE 802.3
21 10BASE-T installations. In addition to the requirements outlined in
22 ISO/IEC 11801:1995, IEEE 802.3 Clause 14, Clause 23, and Clause 32
23 specify additional requirements for cabling when used with 10BASE-T,
24 100BASE-T4, and 100BASE-T2~~100BASE-TX, and 1000BASE-T~~.
25

26 1.4.126 Category 4 balanced cabling: Balanced 100 Ω cables and
27 associated connecting hardware whose transmission characteristics are
28 specified up to 20 MHz as per ISO/IEC 11801:1995. In addition to the
29 requirements outlined in ISO/IEC 11801:1995, IEEE 802.3 Clause 14, Clause
30 23, and Clause 32 specify additional requirements for this cabling when
31 used with 10BASE-T, 100BASE-T4, and 100BASE-T2, ~~respectively~~.
32

33 1.4.127 Category 5 balanced cabling: Balanced 100 Ω cables and
34 associated connecting hardware whose transmission characteristics are
35 specified up to 100 MHz (i.e., cabling components meet the performance
36 specified in ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-A-1995). In addition
37 to the requirements outlined in ISO/IEC 11801:1995 and ANSI/EIA/TIA-568-
38 A-1995, IEEE 802.3 Clause 14, Clause 23, Clause 25, and Clause 40 specify
39 additional requirements for this cabling when used with 10BASE-T,
40 100BASE-T4, 100BASE-TX, and 1000BASE-T~~and 100BASE-T~~.
41

42 1.4.128 Category 6 balanced cabling: Balanced 100 Ω cables and
43 associated connecting hardware whose transmission characteristics are
44 specified up to 250 MHz (i.e., cabling components meet the performance
45 specified in ISO/IEC 11801:2002 and ANSI/TIA-568-C.2). In addition to the
46 requirements outlined in ISO/IEC 11801:1995 and ANSI/TIA-568-C.2, IEEE
47 802.3 Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify
48 additional requirements for this cabling when used with 10BASE-T,
49 100BASE-T100BASE-T4, 100BASE-TX, 1000BASE-T, and 10GBASE-T.
50

51 1.4.129 Category 6A balanced cabling: Balanced 100 Ω cables and
52 associated connecting hardware whose transmission characteristics are
53 specified up to 500 MHz (i.e., cabling components meet the performance
54 specified in ISO/IEC 11801:2002 Amendment 2 and ANSI/TIA-568-C.2). In
55 addition to the requirements outlined in ISO/IEC 11801:2002 Amendment 2
56 and ANSI/TIA-568-C.2, IEEE 802.3 Clause 14, Clause 23, Clause 25, Clause

1 40, and Clause 55 specify additional requirements for this cabling when
2 used with 10BASE-T, ~~100BASE-T~~100BASE-T4, 100BASE-TX, 1000BASE-T, and
3 10GBASE-T.
4

5 1.4.130 Category 7 balanced cabling: Balanced 100 Ω cables and
6 associated connecting hardware whose transmission characteristics are
7 specified up to 600 MHz (i.e., cabling components meet the performance
8 specified in ISO/IEC 11801:2002). In addition to the requirements
9 outlined in ISO/IEC 11801:2002, IEEE 802.3 Clause 14, Clause 23, Clause
10 25, Clause 40, and Clause 55 specify additional requirements for this
11 cabling when used with 10BASE-T, ~~100BASE-T~~100BASE-T4, 100BASE-TX,
12 1000BASE-T, and 10GBASE-T.
13

14 1.4.131 Category 7A balanced cabling: Balanced 100 Ω cables and
15 associated connecting hardware whose transmission characteristics are
16 specified up to 1,000 MHz (i.e., cabling components meet the performance
17 specified in ISO/IEC 11801:2002 Amendment 2). In addition to the
18 requirements outlined in ISO/IEC 11801:2002 Amendment 2, IEEE 802.3
19 Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify
20 additional requirements for this cabling when used with 10BASE-T,
21 ~~100BASE-T~~100BASE-T4, 100BASE-TX, 1000BASE-T, and 10GBASE-T.
22

23 RATIONALE FOR REVISION: The 1000BASE-T reference is incorrect for
24 category 3 and missing from the definitions for categories 5, 6, 6A, 7,
25 and 7A. Clauses 23 and 32 address 100BASE-T4 and 100BASE-T2,
26 respectively, not 100BASE-TX. Clause 25 addresses 100BASE-TX, not
27 100BASE-T. The word "respectively" only shows up in the category 4
28 definition.
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30 IMPACT ON EXISTING NETWORKS: None
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33 |Please attach supporting material, if any|
34 |Submit to:- David Law, Chair IEEE 802.3|
35 |and copy:- Adam Healey, Vice-Chair IEEE 802.3|
36 |
37 |At:- E-Mail: stds-802-3-maint-req@ieee.org|
38 |
39 | +----- For official 802.3 use -----+
40 | | REV REQ NUMBER: 1285 |
41 | | DATE RECEIVED: 10-Nov-15 |
42 | | EDITORIAL/TECHNICAL |
43 | | ACCEPTED/DENIED |
44 | | BALLOT REQ'D YES/NO |
45 | | COMMENTS: |
46 +-----+
47 | For information about this Revision Request see -
48 | http://www.ieee802.org/3/maint/requests/revision\_history.html#REQ1285
49 +-----+
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