Cl **80** *SC* **80.1.2** *P* **79** *L* **19** # 44

Kolesar, Paul CommScope

Comment Type **ER** *Comment Status* **R**

The stated reach of "up to at least 100 m" fails to acknowledge the 150 m capability of this PHY on OM4 cabling. Although considered officially an "engineered solution" due to a reduction in allowed connection insertion loss from 1.5 dB to 1.0 dB, this type of special restriction did not impose limiting the stated reach of 40GBASE-ER4 or 100GBASE-ER4 which are rated to 30 km without special engineering, but are stated in this table to support 40 km.

SuggestedRemedy

There are two choices to removing the inequitable handling of stated reaches in this table. The first is preferred.
1. Change 100 m to 150 m on line 19.
2. Change 40 km to 30 km on lines 27 and 53.

Response *Response Status* **U**

REJECT.

This topic was discussed in the P802.3ba project after the change was made to increase the reach of 40GBASE-SR4 over OM4 to 150 m. The consensus decision made at that time was to keep the reach in the description of 40GBASE-SR4 at 100 m. Making a change in the description of 40GBASE-SR4 or 100GBASE-ER4 now when there has been no change in the specifications would cause confusion and be counter to the consensus decision of the Task Force and Working Group when the standard was approved.

See also comment #45.

Cl **80** *SC* **80.1.2** *P* **79** *L* **45** # 45

Kolesar, Paul CommScope

Comment Type **ER** *Comment Status* **R**

The stated reach of "up to at least 100 m" fails to acknowledge the 150 m capability of 100GBASE-SR10 on OM4 cabling. Although considered officially an "engineered solution" due to a reduction in allowed connection insertion loss from 1.5 dB to 1.0 dB, this type of special restriction did not impose limiting the stated reach of 40GBASE-ER4 or 100GBASE-ER4 which are rated to 30 km without special engineering, but are stated in this table to support 40 km.

SuggestedRemedy

There are two choices to removing the inequitable handling of stated reaches in this table. The first is preferred.
1. Change 100 m to 150 m on line 45.
2. Change 40 km to 30 km on lines 27 and 53.

Response *Response Status* **U**

REJECT.

This topic was discussed in the P802.3ba project after the change was made to increase the reach of 100GBASE-SR10 over OM4 to 150 m. The consensus decision made at that time was to keep the reach in the description of 100GBASE-SR10 at 100 m. Making a change in the description of 100GBASE-SR10 or 100GBASE-ER4 now when there has been no change in the specifications would cause confusion and be counter to the consensus decision of the Task Force and Working Group when the standard was approved.

See also comment #44.

Cl **00** *SC* *P* **391** *L* **7** # 53

Grow, Robert
RMG Consulting

Comment Type **TR** *Comment Status* **A**

The standard needs to include reference to Company ID (CID) with many references to OUI updated to be OUI or CID. This does not apply to the deprecated OUI-22 uses; or variable names, MIB objects, etc., but may be required in the explanatory text to those and other similar items. Implementation of these changes may avoid RAC comments during Sponsor ballot.

SuggestedRemedy

The following are identified changes to Sections 1 through 4. Recommended changes to other Sections may follow in this ballot, before the BRC meeting, or in recirculation ballots.

1.4 – Replace definition with: Organizationally Unique Identifier (OUI): A 24-bit unique number that defines a manufacturer or other organization. (OUI and CID are non-overlapping and therefore mutually unique.)

1.4 – Insert definition: Company ID (CID): A 24-bit unique number that defines a manufacturer or other organization. (OUI and CID are non-overlapping and therefore mutually unique.)

1.5 – Insert acronym: CID Company ID
[There already is an expansion for CID, Consecutive Identical Digit, this would be the second but context should be sufficient to distinguish.]

28C.6 – Replace most occurrences of OUI with OUI or CID. First paragraph, all but line 16. Second paragraph, change “OUI value” to “OUI/CID value”, change “OUI” in Figure 28C-1 to OUI/CID”

28C.13, l.6 – Replace OUI with OUI or CID twice.

Table 31A-8 – Line 50 and 53, replace OUI with OUI or CID

31C.2 – List item d) Change to read: … Extension Opcode and the Organizationally Unique Identifier (OUI) or Company ID (CID) … Footnote 23, replace “OUIs” with “OUIs and CIDs”, UPDATE REFERENCE TO CURRENT Std 802.

45 PICS. MM25, MM42, WM22, WM40, RM22, RM28, AM36, PM21, PM25, DM20, DM24, VS5, VS7, VSB5, VSB7 — Replace OUI with 22-bits of OUI

Response *Response Status* **U**

ACCEPT IN PRINCIPLE.

Insert definition for Company Identifier (CID) and modify the definition for Organizationally Unique Identifier (OUI) in 1.4.305. The IEEE P802.3 (IEEE 802.3bx) Task Force chair will coordinate with the RAC chair to compose appropriate definitions.

In 1.5, change the expansion of CID to be "Company Identifier (in Clause 50, Consecutive Identical Digit)".

28C.6 – Replace occurrences of "OUI" with "OUI or CID" with the exception of the phrase "OUI Tagged Message". In the second paragraph, change “OUI value” to “OUI/CID value”. In Figure 28C-1, change “OUI” to OUI/CID”.

28C.13, line 6 – Replace "OUI" with "OUI or CID" twice.

Table 31A-8, lines 50 and 53 - Replace "OUI" with "OUI or CID".

31C.2 – List item d) Change to read: "…Extension Opcode and the Organizationally Unique Identifier (OUI) or Company Idenitfier (CID)…". Footnote 23, replace “OUIs” with “OUIs and CIDs”. Update reference to current IEEE Std 802.

45 PICS MM25, MM42, WM22, WM40, RM22, RM28, AM36, PM21, PM25, DM20, DM24, VS5, VS7, VSB5, VSB7 - Replace "OUI" with "22 bits of OUI".

57.4.1 - Change the last paragraph on page 70 to the following.
"The bit/octet ordering of any Organizationally Unique Identifier (OUI) or Company Identifier (CID) field within an OAMPDU is identical to the bit/octet ordering of the OUI portion of the DA/SA. Additional detail defining the format of OUIs and CIDs can be found in IEEE Std 802-2014."

Figure 57-10 - Replace "OUI" with "OUI/CID".

57.4.3.6 - Replace "Organizationally Unique Identifier (OUI)" with "Organizationally Unique Identifier (OUI) or Company Identifier (CID)". Replace "OUI value" with "OUI or CID value". In Figure 57-15, replace "OUI" with "OUI/CID".

57.5.2.1 item h) - Change to "OUI/CID. This three-octet field contains the 24-bit Organizationally Unique Identifier or Company Identifier and shall be as shown in Table 57–10." In Table 57-10, replace "OUI" with "OUI/CID", replace "Organizationally Unique Identifier" with "Organizationally Unique Identifier or Company Identifier", and in footnote a) replace "OUIs" with "OUIs or CIDs" in two instances.

57.5.2.3 item c) - Change to "Organizationally Unique Identifier or Company ID. This three-octet field shall contain the 24-bit Organizationally Unique Identifier (OUI) or Company ID (CID).

57 PICS LIT1, LIT10, OIT1, OIT2 - Replace "OUI" with "OUI/CID".

73.11.4.9 - Replace instances of "OUI" in the Value/Comment column with "OUI or CID"

57B.1.1, item j) - Change item j) to the following.
"Organizationally Unique Identifier (OUI) or Company Identifier (CID). The OUI/CID field contains the OUI or CID to identify the Organization Specific Data. The bit/octet ordering of the OUI/CID field within an OSSPDU is identical to the bit/octet ordering of the OUI portion of the DA/SA."

57B.1.1, item k) - Replace "OUI" with "OUI/CID".

73A.2 - Replace occurrences of "OUI" with "OUI or CID" with the exception of the phrase "OUI Tagged Message". In the second paragraph, change “OUI value” to “OUI/CID value”. In Figure 73A-1, change “OUI” to OUI/CID”

73A.3 - Replace "OUI" with "device identifier".

Cl **22** *SC* **22.2.4.4** *P* **74** *L* **26** # 56

Grow, Robert RMG Consulting

Comment Type **TR** *Comment Status* **A**

Looks like there is p802.3z text that we missed updating with p802.3ae. I don’t think we have any clause 22 management for speeds higher than 1000Mb/s. The text “all PHYs capable of operation at speeds above 100 Mb/s” is not correct.

SuggestedRemedy

Change read “all PHYs capable of operation at 1000 Mb/s.” Though also consider what is being done for 1000BASE-T1 and GEPOF, as the word “all” may not be appropriate to include based on the current 1000BASE-T1 draft.

Response *Response Status* **U**

ACCEPT IN PRINCIPLE.

Change the first sentence of the first paragraph to the following.
"The Extended Status register is implemented for 1000BASE-T PHYs and all PHYs using the 1000BASE-X signaling specifications."

Future amendments defining 1000BASE-T1 and GEPOF may modify this subclause if necessary.