Cl **FM** *SC* **FM** *P* **1** *L* **29** # 490

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

This list is not in amendment order. It also lists five previous amendments yet P802.3cx is identified as Amendment 5.

SuggestedRemedy

If new amendment numbers are assigned for the gaggle of amendments currently assumed to be hitting RevCom in September, obviously use that order. If amendment numbers remain unchanged from the last amendment number assignment, delete P802.3de from this list, and sort in amendment number order.

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **11** *L* **17** # 491

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

The changes to the end of this paragraph are inconsistent with the current front matter as found in P802.3/D3.2.

SuggestedRemedy

Update for consistency with P802.3/D3.2.

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **12** *L* **39** # 492

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

The section description is not consistent with the current front matter as found in P802.3/D3.2.

SuggestedRemedy

Update for consistency with P802.3/D3.2.

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **12** *L* **52** # 493

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

The description of 802.3cs does not agree with the text in P802.3cs/D3.2.

SuggestedRemedy

Update for consistency with P802.3cs/D3.2.

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **13** *L* **8** # 494

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

According to my records, P802.3db was designated Amendment 3 and P802.3ck was designated Amendment 4 by Mr. Law on 25 January 2023.

SuggestedRemedy

Interchange IEEE Std 802.3db and IEEE Std 802.3ck descriptions and numbers.

Proposed Response *Response Status* **O**

Cl **3** *SC* **3.13.1.14** *P* **23** *L* **53** # 477

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

The limiting condition (based on DDMP capabilities of the PCS and DTE XS) on the configuration of the aTimeSyncSelectionDdmp management object needs to be added.

SuggestedRemedy

Change:

"The registers 3.1813.13 and 5.1813.13 are expected to be set to the same value.;"

to

"The registers 3.1813.13 and 5.1813.13 are expected to be set to the same value and can onlly be set to a value that corresponds to the capabilities of the PCS and DTE XS instances (see 45.2.3.69a.1 and 45.2.5.31.1).;"

Proposed Response *Response Status* **O**

Cl **30** *SC* **30.13.1.13** *P* **23** *L* **22** # 476

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

The special condition (per 45.2.3.67.1) when all DDMP capability registers 3.1800.12, 3.1800.13, 5.1800.12, and/or 5.1800.13 are zeros has to be included in the description of the aTimeSyncCapabilityDdmp management object.

SuggestedRemedy

Change
"The value of ‘sfd’ indicates that the registers 3.1800.13 and 5.1800.13 (see 45.2.3.67 and 45.2.5.28) are both set to 1."

to

"The value of ‘sfd’ indicates that the registers 3.1800.13 and 5.1800.13 (see 45.2.3.67 and 45.2.5.28) are both set to 1 or that all registers 3.1800.12, 3.1800.13, 5.1800.12, and 5.1800.13 are set to 0."

Proposed Response *Response Status* **O**

Cl **30** *SC* **30.13.1.16** *P* **25** *L* **27** # 489

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

In the right-most column of Table 30-6, there should not be "X" for the new optional (i.e., non-mandatory for TImeSync) features.

SuggestedRemedy

Remove the "X" for all the management objects below aTimeSyncDelayNsRXmin

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2** *P* **26** *L* **4** # 539

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Base text error.

SuggestedRemedy

P802.3/D3.2 has title "MDIO Interface registers".

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.175** *P* **26** *L* **32** # 554

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

This draft uses "path data delay" 550 times and "data path delay" 23 times

SuggestedRemedy

I wonder if some or all of the few "data path delay" should be otherwise.

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.175** *P* **26** *L* **32** # 475

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

"data path delay" should be "path data delay"

Total of 13 instances of "data path delay" in the draft. All should be changed except (perhaps) the two instances related to the name of the PDDPD primitive.

SuggestedRemedy

Change all instances (except possibly the two related to the name of the PDDPD primitive) from:
"data path delay"
to
"path data delay"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.176** *P* **27** *L* **28** # 540

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

P802.3/D3.0 comment resolution (#i-42) became more precise than was the initial proposed response, which may have been the basis for correcting P802.3de: Approved response: "Editors to change the capitalization of register as follows:
Replace "Register" with "register" throughout the draft where "Register" is not at the start of a sentence, is not part of a phrase that is a proper noun (e.g., a parameter name), and is not preceded by "(" as part of a Clause 22 or Clause 45 heading. All with editorial license."
"Register 1.1" is wrong. (Individual comments entered for other occurances.)

SuggestedRemedy

"register 1.1"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.176** *P* **27** *L* **32** # 541
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 1.1803…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.176** *P* **27** *L* **42** # 542
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 1.1810…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.177** *P* **28** *L* **38** # 543
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 1.1"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.177** *P* **28** *L* **42** # 544
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 1.1805…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.177** *P* **28** *L* **43** # 545
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 1.1811…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.177** *P* **28** *L* **51** # 546
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 1.1807…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.1.177** *P* **28** *L* **52** # 495
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 1.1812…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.21** *P* **30** *L* **49** # 496
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 2.1..."
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.21** *P* **30** *L* **52** # 497
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"registers 2.1891…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.21** *P* **31** *L* **1** # 498
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 2.1809…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.21** *P* **31** *L* **8** # 499
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(registers 2.1803…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.21** *P* **31** *L* **10** # 500
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 1810…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.22** *P* **31** *L* **1** # 501
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 2.1..."
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.22** *P* **32** *L* **4** # 502
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"registers 2.1805…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.22** *P* **32** *L* **6** # 503
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 2.1811…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.22** *P* **32** *L* **13** # 504
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"registers 2.1805…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.2.22** *P* **32** *L* **15** # 505

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 2.1812…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.3.67.1** *P* **34** *L* **33** # 478

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

The data delay measurement point affects the calculation of both the transmit and receive path data delays.
The statements in 45.2.3.67.1 and 45.2.3.67.2 only mention the PCS transmit path data delay.
The statements in 45.2.5.28.1 and 45.2.5.28.2 only mention the DTE XS transmit path data delay.

SuggestedRemedy

Change the four instances of "PCS transmit path data delay" in 45.2.3.67.1 and 45.2.3.67.2 to "PCS path data delays".

Change the four instances of "DTE XS transmit path data delay" in 45.2.5.28.1 and 45.2.5.28.2 to "DTE XS path data delays".

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.3.67.2** *P* **34** *L* **48** # 480

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

Register bit 3.1800.12 should be referenced here instead of 3.1800.13.

SuggestedRemedy

Change

"When read as a zero, bit 3.1800.13 indicates that the PCS..."

to

"When read as a zero, bit 3.1800.12 indicates that the PCS ..."

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.3.67.3** *P* **35** *L* **3** # 563

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

indicates that the PCS supports the measurement of multiple PCS lane transmit and receive path data delays using the method described in 90.7 and 90A.4.

SuggestedRemedy

indicates that the PCS is able to report transmit and receive path data delays for multiple PCS lanes using the method described in 90.7 and 90A.4.
Similarly in other places

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.3.67.4** *P* **35** *L* **11** # 555

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

indicates that the PCS supports the calculation of the TX_NUM_BIT_CHANGE and RX_NUM_BIT_CHANGE values

SuggestedRemedy

indicates that the PCS is able to report PDDPD as TX_NUM_BIT_CHANGE and RX_NUM_BIT_CHANGE values
Check the document for calculation vs. reporting.

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.67.4** P **35** L **12** # 556

Dawe, Piers Nvidia

Comment Type **T** *Comment Status* **X**

This bit reports two abilities together: reporting PDDPD, and doing it over xMII using NUM_BIT_CHANGE signals.

SuggestedRemedy

Should there be separate registers for each ability?

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.68** P **36** L **11** # 506

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 3.1…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.68** P **36** L **14** # 507

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 3.1801…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.68** P **36** L **16** # 508

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 3.1809…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.68** P **36** L **23** # 509

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"registers 3.1803…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.68** P **36** L **25** # 510

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 3.1810…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.69** P **37** L **13** # 511

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 3.1…"

Proposed Response *Response Status* **O**

Cl **45** SC **45.2.3.69** P **37** L **16** # 512

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"registers 2.1807…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.3.69** *P* **37** *L* **27** # 513

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 3.1812…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.29** *P* **39** *L* **47** # 514

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 4.1…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.29** *P* **39** *L* **51** # 515

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 4.1801…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.29** *P* **39** *L* **52** # 516

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 4.1809…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.29** *P* **40** *L* **6** # 517

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 4.1803…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.30** *P* **40** *L* **48** # 518

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 4.0…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.30** *P* **40** *L* **52** # 519

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 4.1805…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.30** *P* **40** *L* **53** # 520

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 4.1811…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.30** *P* **41** *L* **7** # 521

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"registers 4.1807…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.4.30** *P* **41** *L* **9** # 522

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 4.1812…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.28.2** *P* **43** *L* **36** # 479

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

Register bit 5.1800.12 should be referenced here instead of 5.1800.13.

SuggestedRemedy

Change

"When read as a zero, bit 5.1800.13 indicates that the DTE XS..."

to

"When read as a zero, bit 5.1800.12 indicates that the DTE XS ..."

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.28.3** *P* **43** *L* **46** # 481

Tse, Richard Microchip Technology

Comment Type **E** *Comment Status* **X**

"PCS" should be replaced by "DTE XS" in 45.2.5.28.3, 45.2.5.28.4, and 45.2.5.31.

SuggestedRemedy

Replace six instances of "PCS" with "DTE XS" in 45.2.5.28.3, 45.2.5.28.4, and 45.2.5.31.

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **37** # 523

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 5.0…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **41** # 524

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 5.1801…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **42** # 525

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 5.1809…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **42** # 482

Tse, Richard Microchip Technology

Comment Type **E** *Comment Status* **X**

"PHY XS" should be replaced by "DTE XS" in 45.2.5.29

SuggestedRemedy

Replace two instance of "PHY XS" with "DTE XS" in 45.2.5.29

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **50** # 526

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 5,1803…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.29** *P* **44** *L* **51** # 527

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 5.1810…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.30** *P* **45** *L* **41** # 528

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"register 5.1…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.30** *P* **45** *L* **44** # 529

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"registers 5.1805…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.30** *P* **45** *L* **46** # 530

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 5.1811…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.30** *P* **45** *L* **53** # 531

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(registers 5.1807…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.5.30** *P* **46** *L* **1** # 532

Grow, Robert RMG Consulting

Comment Type **E** *Comment Status* **X**

Incorrect capitalization of "Register"

SuggestedRemedy

"(register 5.1812…"

Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.15** *P* **48** *L* **37** # 533
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 6.1809…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.15** *P* **48** *L* **44** # 534
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(registers 6.1803…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.15** *P* **48** *L* **46** # 535
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 6.1810…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.16** *P* **49** *L* **36** # 536
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"register 6.0…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.16** *P* **49** *L* **39** # 537
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"registers 6.1805…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.16** *P* **49** *L* **41** # 538
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(register 6.1811…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.16** *P* **49** *L* **48** # 547
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(registers 6.1807…"
Proposed Response *Response Status* **O**

Cl **45** *SC* **45.2.6.16** *P* **49** *L* **50** # 548
Grow, Robert RMG Consulting
Comment Type **E** *Comment Status* **X**
Incorrect capitalization of "Register"
SuggestedRemedy
"(registers 6.1812…"
Proposed Response *Response Status* **O**

Cl **90** *SC* **90.5.3** *P* **60** *L* **11** # 483

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

"number of bits" needs further clarification

SuggestedRemedy

Change

"The value reports number of bits of dynamic transmit path data delay that are experienced by the data transferred from the gRS to the PHY…"

to

"The value reports number of xMII bit times of dynamic transmit path data delay that are experienced by the data transferred from the gRS to the PHY ..."

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.5.4** *P* **60** *L* **38** # 484

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

"number of bits" needs further clarification

"gRS to the PHY" should be "PHY to the gRS"

SuggestedRemedy

Change

"The value reports number of bits of dynamic receive path data delay that are experienced by the data transferred from the gRS to the PHY…"

to

"The value reports number of xMII bit times of dynamic receive path data delay that are experienced by the data transferred from the PHY to the gRS ..."

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **4** # 557

Dawe, Piers Nvidia

Comment Type **TR** *Comment Status* **X**

This proposes to change the base text to: "The TimeSync capability requires measurement of data delay in the transmit and receive paths, as shown in Figure 90–5. The data delay measurement point shall be either the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.69a)". The figure is unchanged from the base standard, and shows an arrow between two points, the bottom of the gRS and the boundary between MDI and medium. This is confusing.

SuggestedRemedy

If you must describe a marker in a signal that moves as a "point", add text to distinguish this from the real points in static space, which are also relevant to this clause.
It would be better to change "data delay measurement point" to "data delay reference marker" or "data delay marker" or "data delay reference", throughout.

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **6** # 558

Dawe, Piers Nvidia

Comment Type **TR** *Comment Status* **X**

This proposes to change the base text to: "The data delay measurement point shall be either the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.69a)".
I checked clauses 3 and 4: the SFD field is 1 octet long (Clause 3) or 8 MAC bits long (Clause 4), and the SFD field and the Destination Address field which follows it are "fields". I checked a couple of RS clauses - they don't have "symbol"s. But see the definitions 1.4.545 symbol, 1.4.546 symbol period, 1.4.547 symbol rate (SR), and 1.4.548 symbol time (ST). So a symbol is a unit interval on the line, which doesn't relate simply to MAC octets at the gRS because of line coding overhead, multilevel coding, FEC, and alignment markers. Also, there are 10-bit symbols in Reed-Solomon FEC clauses.
To the same text: the regular clauses are responsible for specifying; Clause 45 MDIO is only an optional way of implementing it.
I see that 1.5 says "SFD start-of-frame delimiter" and "3.2.2 Start Frame Delimiter (SFD) field The SFD field is..."

SuggestedRemedy

I believe what is meant is "octet" as used in Clause 3 and 90A.3 or "8
Change this to:

"the beginning of the Start Frame Delimiter field (SFD) or the beginning of the first field after the SFD (see Figure 3-1) An implementation may be capable of one or both methods; this may be advertised and configured with MDIO registers (the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.67 and 45.2.3.69a)"

Replace "symbol" with "field" throughout the document. It seems it is used as "the first symbol after the SFD" so we don't need to discuss the duration of this field, only when it starts.

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **15** # 559

Dawe, Piers Nvidia

Comment Type **T** *Comment Status* **X**

Confusion between points and events.
Also, the delay exists whether measured or not.

SuggestedRemedy

Change
The transmit path data delay is measured from the data delay measurement point at the xMII input to the data delay measurement point at the MDI output. The receive path data delay is measured from the data delay measurement point at the MDI input to the data delay measurement point at the xMII output.
to
The transmit path data delay is defined from the time the data delay measurement point passes the xMII input to the time {it | the data delay measurement point} passes the MDI output. The receive path data delay is measured from the time the data delay measurement point passes the MDI input to the time it passes the xMII output.

Check the document for other occurrences of "data delay measurement point" when an event is meant, such as at line 38 (suggestion in another comment).

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **18** # 566

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

"For a PHY that includes an FEC and/or multiple PCS lane distribution functions": hard to parse, could mean multiple PCSs or multiple functions. We don't have PCS lane distribution without multiple PCS lanes. How many functions: just one, or one per Tx, Rx?

SuggestedRemedy

Change to
For a PHY that includes an FEC and/or a PCS lane distribution function
Similarly, change
For PHYs with both FEC and multiple PCS lane distribution, the start of the FEC block is guaranteed to coincide with the start of a multiple PCS lane distribution sequence.
to
For PHYs with both FEC and PCS lane distribution, the start of the FEC block is guaranteed to coincide with the start of a PCS lane distribution sequence.

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **21** # 567

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

"FEC block": I know what you mean, but in 802.3 it's "FEC codeword" because 64B/66B got "block" first

SuggestedRemedy

Change "block" to "codeword", three times

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **63** *L* **29** # 560

Dawe, Piers Nvidia

Comment Type **T** *Comment Status* **X**

the transmit path data delay measurement starting point (the data delay measurement point at the xMII input)
...
the receive path data delay measurement ending point (the data delay measurement point at the xMII output)

SuggestedRemedy

the transmit path data delay measurement starting event (when the data delay measurement point passes the xMII input)
...
the receive path data delay measurement ending event (when the data delay measurement point passes the xMII output)

Proposed Response *Response Status* **O**

Cl **90** *SC* **90.7** *P* **64** *L* **42** # 485

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

The Tx and Rx path data delays are no longer reported by a simple quartet of values. The existence of nanosecond and optional sub-nanosecond resolution managed objects should be mentioned.

SuggestedRemedy

Change

"The obtained data delay measurement shall be reported in the form of a quartet of values; the maximum transmit data delay, the minimum transmit data delay, the maximum receive data delay, and the minimum receive data delay, as defined for the oTimeSync managed object class (30.13.1)."

to

"The obtained data delay measurement shall be reported in the form of a quartet of values; the maximum transmit data delay, the minimum transmit data delay, the maximum receive data delay, and the minimum receive data delay, each of which can be derived from corresponding managed objects with nanosecond resolution and, optionally, also with sub-nanosecond resolution, as defined for the oTimeSync managed object class (30.13.1)."

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.2** *P* **68** *L* **31** # 565

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

"and multi-physical coding sublayer (PCS) lane distribution/merging": we have removed most of the multi-physics from the draft, we aren't discussing multiple PCSs in this sentence, and we don't have lane distribution/merging without multiple lanes. Capitals.

SuggestedRemedy

Simplify to "and Physical Coding Sublayer (PCS) lane distribution/merging", or elaborate to "and distribution/merging of multiple Physical Coding Sublayer (PCS) lane "

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.3** *P* **68** *L* **51** # 562

Dawe, Piers Nvidia

Comment Type **T** *Comment Status* **X**

"For implementations that do not use the NUM_BIT_CHANGE ability and Multilane ability registers (see Table 45-293)": I suspect the criterion is not whether the implementation uses MDIO to report these abilities, but whether it is using the abilities themselves. Rogue capital.

SuggestedRemedy

Change to "If the NUM_BIT_CHANGE ability and multilane ability are not in use (see 90.7, 90.5.3, 90.5.4, Table 45-293, and Table 45-295a)"

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.3** *P* **69** *L* **8** # 561

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

Gratuitous capitals in table

SuggestedRemedy

Ethernet rate
Magnitude of potential timestamp accuracy impairments per transmit or receive port (ns)
Mismatched data delay measurement point
Idle insertion / removal
Alignment marker/ codeword marker insertion / removal
PCS lane distribution / merging

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.3** *P* **69** *L* **44** # 549

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

Implementations that support sub-nanosecond accuracy path delay measurement capabilities

SuggestedRemedy

Implementations with sub-nanosecond resolution path data delay reporting abilities

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.3** *P* **69** *L* **46** # 550

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

only suffer? rather than pay a penalty or be disqualified?

SuggestedRemedy

Change "only suffer a timestamp accuracy impairment of one octet time" to "suffer a timestamp accuracy impairment of only one octet time

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.4** *P* **70** *L* **4** # 553

Dawe, Piers Nvidia

Comment Type **TR** *Comment Status* **X**

This is the first mention of "intrinsic delay variation" and I don't see an explanation of what "intrinsic" means.

SuggestedRemedy

Explain or delete. It appears that anything "intrinsic" is a delay variation or a varying delay, so delete may work.

Proposed Response *Response Status* **O**

Cl **90A** *SC* **90A.5.1** *P* **70** *L* **52** # 564

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

"the PDDPD parameter, which mirrors the corresponding value of TX_NUM_BIT_CHANGE": but it's the other way round; the TX_NUM_BIT_CHANGE signals convey the parameter PDDPD, as 90.4.3.1.1 says.

SuggestedRemedy

Change to "the PDDPD parameter, which is conveyed by TX_NUM_BIT_CHANGE". Similarly in 90A.5.2.

Proposed Response *Response Status* **O**

Cl **90A** SC **90A.5.1** P **70** L **53** # 486

Tse, Richard Microchip Technology

Comment Type **T** *Comment Status* **X**

PDDPD is a primitive, not a parameter

Make the same change to both 90A.5.1 and 90A.5.2

SuggestedRemedy

change the following in both 90A.5.1. and 90A.5.2:

"...in which the PDDPD parameter..."

to

"...in which the PDDPD primitive..."

Proposed Response *Response Status* **O**

Cl **90A** SC **90A.6** P **72** L **12** # 487

Tse, Richard Microchip Technology

Comment Type **E** *Comment Status* **X**

"Skew" in the heading of 90A.6 should not have a capitalized "S"

SuggestedRemedy

Change
"Considerations for transmit Skew"
to
"Considerations for transmit skew"

Proposed Response *Response Status* **O**

Cl **90A** SC **90A.7** P **74** L **3** # 551

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

"Arial font is preferred.
Preferred font size is 9 points (can be 8 or 10 points if needed)."
This is 6 and 7 point, Calibri. There is plenty of space.

SuggestedRemedy

Change to 9 point Arial (in black)

Proposed Response *Response Status* **O**

Cl **90A** SC **90A.7** P **74** L **26** # 552

Dawe, Piers Nvidia

Comment Type **E** *Comment Status* **X**

Not house style

SuggestedRemedy

Figures 90A-3 to 5 would be better using black text, Arial. "PHY Delay" should be "PHY delay", or possibly "PHY path data delay". If there is room to change dly to delay, that would be good too.

Proposed Response *Response Status* **O**

Cl **999** SC **999** P **16** L **4** # 488

Tse, Richard Microchip Technology

Comment Type **E** *Comment Status* **X**

Subclause 90A.1 doesn't appear in the table of contents

SuggestedRemedy

Update table of contents so subclause 90A.1 is included

Proposed Response *Response Status* **O**