Chief Editor's opening report

Tom Issenhuth, Huawei, P802.3cw Chief Editor

IEEE P802.3cw Task Force, as of 18 October 2022 Interim Teleconference Meeting

802.3cw Editorial team

Tom Issenhuth, Huawei

Chief Editor and Editor for Clauses 00, 1, 30, 45, 78, 116, 119, 156, Annex 120A and Annex 156A

Dave Lewis, Lumentum

• Editor for Clause 155

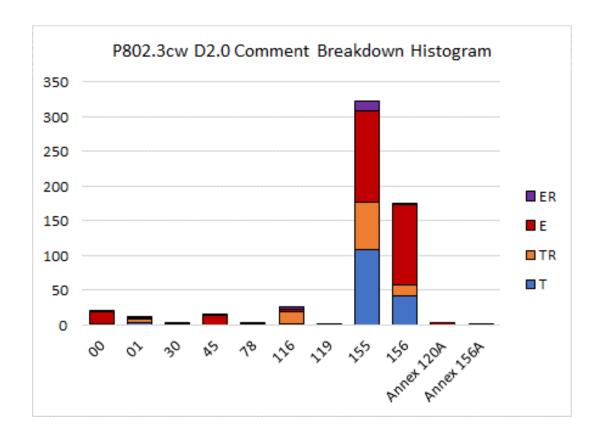
Status

P802.3cw D2.0 Working Group ballot

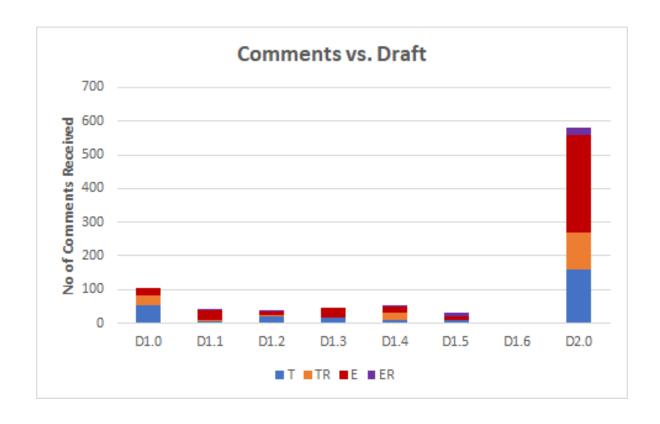
- Opened on July 17, 2022, closed on August 16, 2022
- 31 day comment period
- Thanks to all those that commented

Clause	Т	TR	Е	ER	Total
00	1		19	1	21
1	3	6	1	1	11
30		1	1		2
45			14	2	16
78	1	1			2
116	2	17	3	4	26
119			2		2
155	109	68	131	15	323
156	42	16	115	1	174
Annex 120A			4		4
Annex 156A	1				1
	159	109	290	24	582

Comment Distribution



Comment History



Cross Clause Comments

Topic	Clause	Comment #	Count
"400GBASE-Z", 400GBASE-ZR,	1.4.144b/c,	10, 170, 171, 173, 338, 347, 412,	14
400GBAS-R encoding, and	155.1.5,	413, 414, 417, 418, 419, 423, 526	
description	156.9.1		
PCS / PMA / PMD Descriptions	116.2.3,	5, 6, 7, 176, 177, 178, 200, 420, 421,	10
	116.2.4,	422	
	116.2.5		
Clauses associated with		4, 36, 164, 174, 175, 192, 223	7
400GBASE-ZR PMD	116.1.4, 156.1		
Service interface and faw		10, 35, 37, 60, 61, 92, 93, 94, 95, 96,	57
		98, 99, 100, 108, 109, 126, 130, 131,	
		139, 140, 143, 172, 129, 179, 180,	
		182, 183, 185, 188, 193, 194, 195,	
		202, 218, 233, 234, 237, 238, 259,	
		263, 265, 269, 283, 315, 316, 317,	
		321, 338, 387, 423, 424, 425, 494,	
		498, 558, 581, 582	

Commentors have indicated that supporting presentations will be provided

Clause Comments

Topic	Clause	Comment #	Count	Topic	Clause	Comment #	Count
Abstract	FM	[410, 411]	2	Receiver optical specifications	156	333, 334, 516, 550	4
Abbreviations	1	339, 340, 415, 148, 149	5	Black link optical characteristics		327, 517, 518, 355, 356, 519, 520,	
MAU type	30	24	1		156	521, 522, 523, 524	11
Bit numbering	45	198, 221, 222, 416	4	Test patterns	156	525, 528, 529	3
Delete clause	119	165, 201	2	Transmit spectrum	156	531, 533,	2
156.1.1	156	91, 313, 314, 493	4	Laser frequency noise mask		534, 535, 111, [112, 536], 168, 537,	
Signal detect	156	318, 320, 495, 97, 496, 501	6		156	113	8
Delay constraints	156	497	1	EVM	156	114, 115	2
optical_channel_index	156	319	1	I-Q definitions	156	540, 541, 542, 543	4
156.6	156	506, 507, 323, 328, 502	5	OSNR defintions	156	365, 544, 545, 546, 547	5
Transmitter optical specifications		102, [353, 354, 330], 508, 509, 510,		Definition wording		548, 549, 552, 551, 120, 553, 554,	
	156	104, 105, 106, 331, 332	12		156	555, 556, 557	10
RRC	156	<u>359</u> , 103, 329, 511, 530, 567	5	EVM conformance test setup		562, 559, 336, 569, 570, 564, [121,	
EVM	156	337	1	and calculation		565, 566], 335, 571, 572, 573, 574,	İ
I-Q (max instantaneous)	156	350, 357, 360, 361, 117, 512, 538	7		156	575, 576, 577	18
I-Q (mean)	156	351, 358, 362, 363, 364, 119, 539	7	MDI	156	579	1
I-Q phase error (max)	156	513, 527	2	Black link examples	Annex 156A	367	1

Clause 155 Comments

Topic	Subclause	Comment #	Count
Overview	155.1		
PCS and PMA Overview	155.1.1	169, 181, 186	3
PCS general description	155.1.3	40, 42, 127, 128, 187, 339, 427, 428, 429	9
PCS	155.2		
PCS - functions	155.2.1	16, 20, 28, 29, 43, 44, 46, 48, 190, 224, 430,	17
		431, 433, 434, 437, 438, 439	
PCS Transmit Path	155.2.4	132, 225	2
PCS Transmit - Encode	155.2.4.1	203	1
PCS Transmit - GMP mapper	155.2.4.3	49, 50, 51, 52, 53, 150, 204, 205, 226, 227, 228,	20
		229, 392, 393, 394, 440, 443, 444, 445, 446	
PCS Transmit - AM and pad	155.2.4.4	54, 55, 206	3
PCS Transmit - OH	155.2.4.5	56, 390, 397	3
PCS Transmit - OH - MFAS	155.2.4.5.1	58, 59, 189, 448	4
PCS Transmit - OH - Link Status	155.2.4.5.2	230, 231, 232, 389, 449, 450, 451, 452	8
PCS Transmit - OH - JC bytes	155.2.4.5.3	17, 57, 62, 207, 453	5
PCS Transmit - OH map to ZR frame	155.2.4.5.4	247, 348	2
PCS Transmit - CRC32 and MBAS	155.2.4.6	63, 64, 248, 249, 454, 455	6
PCS Transmit - ZR to SCFEC adaptation	155.2.4.7	251, 252, 253, 254, 388, 400	6
PCS Transmit - pad insertion	155.2.4.8	391	1
PCS Transmit - scrambler	155.2.4.9	31, 65, 66, 383, 399, 458, 459, 460, 461	9
PCS Transmit - conv interleaver	155.2.4.10	67, 68, 208, 256, 462	5
PCS Transmit - Hamming encoder	155.2.4.11	69, 257, 258, 463, 464	5
PCS Transmit - Figure 155-8	155.2.4.12	133	1
PCS Receive - Hamming decoder	155.2.5.1	260, 466, 467	3
PCS Receive - descrambler	155.2.5.3	384	1
PCS Receive - SC-FEC decoder	155.2.5.5	70, 71, 401, 408, 469	5
PCS Receive - CRC32check	155.2.5.6	402, 470	2
PCS Receive - AM & OH detect	155.2.5.7	72, 73, 134, 211, 261, 403, 471	7
PCS Receive - MFAS	155.2.5.7.1	395, 472, 473	3
PCS Receive - Link Status	155.2.5.7.2	74, 212, 474, 475, 476	5
PCS Receive - GMP demapping	155.2.5.8	18, 19	2
PCS Receive - decode	155.2.5.10	477	1

Topic	Subclause	Comment #	Count
PMA	155.3		
PMA Overview	155.3.1	135	1
PMA Overview - scope	155.3.1.1	478, 262	2
PMA Overview - position in sublayers	155.3.1.2	481	1
PMA Overview - summary	155.3.1.3	75, 345	2
PMA service interface	155.3.2	15, 76, 77, 136, 264, 266, 268, 482	8
PMA block diagram Fig 155-10	155.3.2	12, 267, 346, 385, 479, 480	6
PMA functions	155.3.3	213, 235, 483	3
PMA functions - gray mapping and poldist	155.3.3.1	78, 80, 81, 236, 343, 484	6
PMA functions - symbol interleaving	155.3.3.2	215, 216, 239, 240, 241	5
PMA functions - FAW, TS, PS insertion	155.3.3.3	137, 242, 243, 244, 245, 270, 271	7
FAW sequence	155.3.3.3.1	485	1
Pilot sequence	155.3.3.3.3	82, 272, 273, 275, 276, 486, 487	7
16QAM encode	155.3.3.4	83, 138 ,277	3
Receive signal ADCs	155.3.3.5	84, 342, 344	3
Receive signal processing	155.3.3.6	85	1
Pol combine & symbol de-interleave	155.3.3.8	87	1
Detailed functions and state diagrams	155.4		
State diagram - variables	155.4.2.1	13, 88, 141, 142, 280, 281, 284, 285, 286, 287,	16
		288, 289, 290, 291, 349, 405	
State diagram - functions	155.4.2.2	292	1
State diagram - counters	155.4.2.3	293	1
State diagram - description	155.4.2.4	14, 294, 295	3
State diagram - FAW lock	155.4.2.4	89, 217, 296, 297, 298, 299, 300, 301, 303, 304	10
State diagram - AM lock	155.4.2.4	305, 306, 307, 308	4
Management	155.5		
PCS PMA management	155.5.1	310, 311, 488	3
MDIO mapping	155.5.1	33, 144, 145, 146, 147, 312, 406, 407, 409, 489,	11
		490	
PICS	155.7		
PICs	155.7.4.1	347	1

Bucket Comments

C/A	Comment #	Count
FM	[<u>1, 21</u> , 23, 34, 151, 152, 153, 156, 157, 158, 369, 370, 371, 372, 373], 22, 154, 155, 368	19
1		
30	196	1
45	[<u>25</u> , 160], [<u>162, 163</u> , 197, 199, 377, 376], 159, 161, 374, 375	12
116	8	1
119		
155	[9, 26, 38, 39, 125, 378], [27, 41, 184, 379, 380, 381, 426], [45, 47, 432, 435, 436], [30, 382, 386, 441, 442, 447], 246, 396, 250, [398, 456, 457], 255, 32, 465, [11, 468], [209, 210], 214, 79, 274, 191, 86, [278, 279], [282, 404], 302, 309, 491	49
156	[219, 322, 500], [324, 325, 326, 504], [352, 515], [122, 220, 366], 90, 101, 107, 110, 116, 118, 123, 124, 166, 167, 492, 499, 503, 505, 514, 532, 560, 563, 561, 568, 578, 580	34
Annexes 120A, 156A	2, 3	2

Comment Resolution Process

- Resolve comments against Draft 2.0
 - Any presentations associated with comments will be reviewed during comment resolution session.
 - TRs and ERs require signoff as to whether commenter is satisfied
- Regarding final proposed responses
 - If there is no disagreement on the final proposed response the comment will be closed as proposed.
 - If someone other than the commentor disagrees, a straw poll on the area of concern will be taken and the majority position will decide the final response.
 - If the straw poll contains more than 2 choices, the choice with the lowest number of supporters will be removed. This process will continue until there are only 2 choices.

Comment Resolution Process

- The order and time in which the comments are reviewed during a review cycle are subject to change
- Comments bracketed together with [] cover a common topic
- Where a comment number is underlined (e.g., <u>59</u>) it contains the proposed response for the group of comments
- Comments colored blue have associated hyperlinked presentations

Comment Resolution Process

- Baseline Terminology
 - "Open" comments comments that Task Force have not agreed upon a remedy
 - "Closed" comments comments that Task Force have agreed upon a remedy
 - "Final" comments Task Force has approved motion to adopt the responses to the closed comments
- Post updated comment database after each meeting
 - Allow individuals (other than commenter) two business days (AoE) to request on the reflector reconsideration of a "Closed" comment from the prior meeting
 - Individual needs to be present at next meeting to address
 - Normal procedures within the group will apply to determine if comment will be re-opened
- After all comments closed normal procedures to adopt responses and generate next draft will be followed
 - Comments can not be re-opened after meeting where responses are adopted by TF

Note about Comment Resolutions Going Forward

- Consensus building will be key
 - Rule #1 Use the Reflector
 - Rule #2 See Rule #1

- Reference: IEEE SA Balloting and Comment Resolution Process Guidelines (https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/revcom/guidelines.pdf)
 - Multiple reasons possible for rejecting comment given
 - a statement that the CRG could not reach consensus on the changes necessary to address the comment;

Meeting Schedule

- September 12th
 - Presentation
 - Dambrosia_3cw_01_2209.pdf (supporting first 3 sets of comments on slide 6)
- September 13th
- September 29th
 - Presentations
 - Stassar_cw_01_220929.pdf (supporting comments 334, 516 & 550)
 - Maniloff_3cw_01_220929.pdf (supporting comment 367)
- October 18th, 19th and 20th
 - Presentations
 - Dambrosia_3cw_01_221018.pdf (supporting 4th set of comments on slide 6)
 - Maniloff_3cw_01_221018.pdf (supporting comments 353 & 354)
- Any requests to remove comments from the bucket must be received by EOD October 7th AOE

Comment Resolution – September 12

- Resolved the following comments
 - Heard supporting presentation Dambrosia_3cw_01_2209.pdf

Topic	Clause	Comment #	Count
"400GBASE-Z", 400GBASE-ZR,	1.4.144b/c,	10, 170, 171, 173, 338, 347, 412,	14
400GBAS-R encoding, and	155.1.5,	413, 414, 417, 418, 419, 423, 526	
description	156.9.1		
PCS / PMA / PMD Descriptions	116.2.3,	5, 6, 7, 176, 177, 178, 200, 420, 421,	10
	116.2.4,	422	
	116.2.5		
Clauses associated with 400GBASE-		4, 36, 164, 174, 175, 192, 223	7
ZR PMD	116.1.4, 156.1		

Topic	Clause	Comment #	Count
Abstract	FM	[410, 411]	2
Abbreviations	1	339, 340, 415, 148, 149	5
MAU type	30	24	1
Bit numbering	45	198, 221 , 222, 416	4
Delete clause	119	165, 201	2
Signal detect	156	318, 320, 495, 97, 496, 501	6
optical_channel_index	156	319	1
156.6	156	506, 507, 323, 328, 502	5

Comment Resolution – September 13

Resolved the following comments

Topic	Clause	Comment #	Count
Delete clause	119	165, 201	2
Signal detect	156	318, 320, 495, 97, 496, 501	6
optical_channel_index	156	319	1
156.6	156	506, 507, 323, 328, 502	5
Transmitter optical specifications		102, [353, 354, 330], 508, 509, 510,	
	156	104, 105, 106, 331, 332	12
RRC	156	359 , 103 , 329 , 511 , 530 , 567	5
EVM	156	337	1
I-Q (max instantaneous)	156	350, 357, 360, 361, 117, 512, 538	7
I-Q (mean)	156	351, 358, 362, 363, 364, 119, 539	7
I-Q phase error (max)	156	513, 527	2
Receiver optical specifications	156	333 , 334, 516, 550	4
Black link optical characteristics		327, 517, 518, 355, 356, 519, 520 ,	
	156	521, 522, 523, 524	11
Test patterns	156	525, 528 , 529	3
Transmit spectrum	156	531, 533	2
MDI	156	579	1

Comment Resolution – September 29

- Resolved the following comments
 - Heard supporting presentations: stassar_3cw_01_220929.pdf and maniloff_3cw_01_220929.pdf

Topic	Clause	Comment #	Count
156.1.1	156	[91, 493], 313, 314	4
Signal detect	156	318, 320, 495, 97, 496, 501	6
Delay constraints	156	497	1
optical_channel_index	156	319	1
Transmitter optical specifications		102, 508, 509, 510, 104, 105, 106,	
	156	331, 332	9
Receiver optical specifications	156	333, 334, 516, 550	4
Black link optical characteristics		327, 517, 355, 356, 519, 520, 521,	
	156	522, 523, 524	10
Laser frequency noise mask		534, 535, 111, [112, 536], 168, 537,	
	156	113	8
EVM	156	114 , 115	2
I-Q definitions	156	540, 541, 542, 543	4
OSNR defintions	156	365, 544, 545, 546, 547	5
Definition wording		548, [549, 529], 552, 551, 120, 553,	
	156	554, 555, 556, 557	11
EVM conformance test setup		562, 559, 336, 569, 570, 564, [121,	
and calculation		565, 566], 335, 571, 572, 573, 574,	
	156	575, 576, 577	18
Black link examples	Annex 156A	[367, 518]	2

Comment Resolution – October 18-20

- Resolve the comments on slides 19 26.
 - Hear supporting presentations: dambrosia_3cw_01_221018.pdf, maniloff_3cw_01_221018.pdf
 and Deandrea_3cw_01_221018.pdf

Comment resolution status update:

Total comments: 582

Closed comments so far: 122

Bucket comments: 118

Proposed restructuring comments: 297

Additional comments to close: 84

There is some double counting, most likely in the proposed restructuring bucket

Clause 155 TR / T / ER Comments

155.1.1	126	Descriptive text of PCS / PMA
155.1.2	181	
155.1.3	128, 129	
155.1.4	42	PCS Lane Rate
155.1.4.2	185, 187	
155.1.5	427, 130	PCS / PMA Functional Diagram
155.2.1	202, 20, 190, 433, 434, 46, 28, 438, 29, 188, 16, 131, 438	PMA Service Interface, FEC Description, PCS Lanes
155.2.4	132, 225	Frames
155.2.4.1	203	Frames / blocks
155.2.4.3	226, 392, 204, 50, 227, 394, 205, 229, 150, 445, 52	Frames / blocks, PCS Payload, GMP Mapping
155.2.4.4	206	GMP Mapping
155.2.4.5	397	ZR frame
155.2.4.5.1	58, 448	GMP, frame
155.2.4.5.2	390, 230, 450, 61, 232, 389, 449, 452	
155.2.4.5.3	62, 453, 57	
155.2.4.5.4	247	
155.2.4.6	248, 249, 454, 455	400GBASE-ZR Frame
155.2.4.7	251, 253, 254, 388	400GBASE-ZR Frame
155.2.4.8	391	

Clause 155 TR / T / ER Comments

155.2.4.9 65, 460, 461, 459, 458, 31, 66, 399 155.2.4.10 67, 462, 68, 256, 208 155.2.4.11 257, 69, 258, 464 155.2.4.12 259 155.2.5.1 467 155.2.5.5 70, 401, 408 155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.8 18 155.3.1 135 155.3.3.1 75, 479, 480, 345 155.3.3 234, 235 155.3.3.1 78, 484, 80, 342, 81, 238, 239, 240, 215, 216, 236, 237			
155.2.4.11 257, 69, 258, 464 155.2.4.12 259 155.2.5.1 467 155.2.5.5 70, 401, 408 155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.2.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.4.9	65, 460, 461, 459, 458, 31, 66, 399	
155.2.4.12 259 155.2.5.1 467 155.2.5.5 70, 401, 408 155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.4.10	67, 462, 68, 256, 208	
155.2.5.1 467 155.2.5.5 70, 401, 408 155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.2.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.4.11	257, 69, 258, 464	
155.2.5.5 70, 401, 408 155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.4.12	259	
155.2.5.6 470, 402 155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.1	467	
155.2.5.7 403, 211 155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.5	70, 401, 408	
155.2.5.7.1 395 155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.6	470, 402	
155.2.5.7.2 476, 74 155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.7	403, 211	
155.2.5.8 18 155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.7.1	395	
155.2.5.10 477 155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.7.2	476, 74	
155.3.1 135 155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.8	18	
155.3.1.1 478 155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.2.5.10	477	
155.3.1.3 75, 479, 480, 345 155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.3.1	135	
155.3.2 263, 76, 265, 267, 77, 269 155.3.3 234, 235	155.3.1.1	478	
155.3.3 234, 235	155.3.1.3	75, 479, 480, 345	
	155.3.2	263, 76, 265, 267, 77, 269	
155.3.3.1 78, 484, 80, 342, 81, 238, 239, 240, 215, 216, 236, 237	155.3.3	234, 235	
	155.3.3.1	78, 484, 80, 342, 81, 238, 239, 240, 215, 216, 236, 237	
155.3.3.2 238, 239, 240, 215, 216	155.3.3.2	238, 239, 240, 215, 216	
155.3.3.3 241, 242, 243, 244, 245, 270, 271	155.3.3.3	241, 242, 243, 244, 245, 270, 271	
155.3.3.3 82, 272, 273	155.3.3.3.3	82, 272, 273	
155.3.3.4 277, 138	155.3.3.4	277, 138	

Clause 155 TR / T / ER Comments

155.3.3.4.1	83, 139	
155.3.3.5	341, 343, 84	
155.3.3.6	85	
155.3.3.8	87	
155.4.2.1	280, 281, 140, 283, 284, 285, 405, 141, 142, 287, 288, 13, 289, 290, 143, 349, 409	
155.4.2.2	292	
155.4.2.4	286, 14, 295, 296, 217, 297. 298, 299,300, 301 305, 306, 308	
155.5.1	144, 490, 145 , 406, 407, 147, 312, 194	
155.7.4.1	346	

Clause 155 "E" Comments not in Bucket

155.1.2	181	
155.1.4	182, 424, 425	
155.1.5	10, 428, 429, 338	
155.2.1	43, 44, 430, 439, 224, 48	
155.2.4.3	440, 49, 228, 443, 446, 51, 53, 54, 55	
155.2.4.4.1	387	
155.2.4.5	56	
155.2.4.5.1	189	
155.2.4.5.2	231, 60, 451, 61, 246	
155.2.4.5.3	17, 207, 348	
155.2.4.6	63, 64	
155.2.4.7	252, 400	

Clause 155 "E" Comments not in Bucket

155.2.4.10	255	
155.2.4.12	133	
155.2.5.1	260	
155.2.5.3	384	
155.2.5.5	469, 71	
155.2.5.7	134, 73, 261	
155.2.5.7.1	473, 472, 475, 212	
155.2.5.8	19	
155.3.1.1	262	
155.3.1.3	344	
155.3.2	264, 266, 15, 12, 385, 268, 233, 213	
155.3.3.3	137	
155.3.3.3.1	485	
155.3.3.3.3	274, 275, 486, 487, 276, 191	
155.4.2	88	
155.4.2.1	291	
155.4.2.3	293	
155.4.2.4	294, 89, 303, 304, 307	
155.5	488, 310, 311, 489	
155.5.1	33, 491	
100.5.1	33,481	

Clause 155 "E" Comments not in Bucket

155.4.2	88	
155.4.2.1	291	
155.4.2.3	293	
155.4.2.4	294, 89, 303, 304, 307,	
155.5	488, 310, 311, 489,	
155.5.1	33, 491,	

Clause 156 comments

General Description	Comment ID	Related Subclause
Skew Constraints	98, 99, 193, 317, 498	156.3.2
PMD Clause	315, 92, 94, 96, 316, 321, 108, 109, 581, 290, 296,	156

Comment Resolution – October 18-20

Topic	Subclause	Comment #	Count
Overview	155.1		
PCS and PMA Overview	155.1.1	169 , 186	1
PCS general description	155.1.3	40, 42, 127, 187, 339, 427, 428, 429	8
PCS	155.2		
PCS - functions	155.2.1	431, 437	2
PCS Transmit - GMP mapper	155.2.4.3	393, 444	2
PCS Transmit - AM and pad	155.2.4.4	54, 55	2
PCS Transmit - OH	155.2.4.5	390	1
PCS Transmit - OH - MFAS	155.2.4.5.1	59	1
PCS Transmit - scrambler	155.2.4.9	383	1
PCS Transmit - Hamming encoder	155.2.4.11	463	1
PCS Receive - Hamming decoder	155.2.5.1	466	1
PCS Receive - AM & OH detect	155.2.5.7	72, 471	2
PCS Receive - Link Status	155.2.5.7.2	474	1
PMA	155.3		
PMA Overview - position in sublayers	155.3.1.2	481	1
PMA service interface	155.3.2	136, 482	2
PMA block diagram Fig 155-10	155.3.2	346, 479, 480	3
PMA functions	155.3.3	213, 483	2
PMA functions - gray mapping and poldist	155.3.3.1	343	1
PMA functions - symbol interleaving	155.3.3.2	241	1
Receive signal ADCs	155.3.3.5	342, 344	2
State diagram - variables	155.4.2.1	286, 289, 405	3
Management	155.5		
MDIO mapping	155.5.1	146, 409	2
PICS	155.7		
PICs	155.7.4.1	347	1

Topic	Clause	Comment #	Count
Signal detect	156	318, 320, 495, 97, 496, 501	6
Transmitter optical specifications		102, 508, 509, 510, 104, 105, 106,	
	156	331, 332 , [353, 354, 330]	3
EVM	156	114 , 115	1
OSNR defintions	156	365, 544, 545, 546, 547	5
Definition wording		548, [549, 529], 552, 551, 120, 553,	
	156	554, 555, 556, 557	11
EVM conformance test setup		562, 559, 336, 569, 570, 564, [121,	
and calculation		565, 566], 335, 571, 572, 573, 574,	
	156	575, 576, 577	17

Thanks!