

# IEEE 1904.4 25G/50G SIEPON Task Force

**Opening** report

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IEEE 1904 TF4 (teleconference)

### Activities Since Last Meeting

# No consensus callsComment collection on draft 0.5

#### **Review of Action Items**

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1	Develop and approve project timeline	Project management			Completed	
2	Create draft D0.1 from 1904.1-2017	Project management		YES	Completed	
	package A.					
3	ULID provisioning	LLID provisioning		YES	Completed	Glen Kramer
4	GLID provisioning	LLID provisioning		YES	Assigned	Glen Kramer
5	Multicast ULID provisioning	LLID provisioning		YES	Completed	Glen Kramer
6	Report format and queue length	Granting/Reporting	New behavior: gratuitous reports, dynamic reporting priorities	YES	Assigned	Glen Kramer
7	Multicast operation	New 802.3ca behavior	Based on multicast ULID	YES	Assigned	Glen Kramer
8	Transceiver status monitoring	New 802.3ca behavior	Similar, but should be wavelength-specific	NO	Unassigned	
9	Port selective loopback	New 802.3ca behavior	Maybe different to enable inter-channel loopback	NO	Unassigned	
10	Optical link protection	New 802.3ca behavior	New behavior in multi-channel PON. See slide 22 in	YES	Unassigned	
			tf4_2102_kramer_1.pdf	·		
11	Data encryption	New 802.3ca behavior	1) Zero-overhead encryption as in SIEPON, pkg.A, but envelope-	YES	Unassigned	
			based instead of frame-based.	I		
			2) Add support for 256-bit keys.	I		
			3) Specify encryption using one key per ONU, not per LLID			
12	Power saving	New 802.3ca behavior	Consider additional multi-channel mode	YES	Assigned	Marek Hajduczenia
13	Device and capability discovery	New 802.3ca behavior	New capabilities (fragmentation, multiple channels, etc.)		Assigned	Marek Hajduczenia
14	Low latency x-haul (AKA cooperative	New feature		YES	Assigned	Curtis Knittle
	transport interface, mobile/PON					
	coordination, Cooperative DBA)					
15	LLID and mLLID object types	Management attributes	ONUs are unaware if LLID is unicast or multicast. Combine LLID		Completed	Glen Kramer
			and mLLID into one ObjectType. See tf4_2102_kramer_1.pdf			
16	aLlidReportThresholds	Management attributes	Attribute is not applicable to 25G or 50G-EPON. Remove the		Completed	
			attribute. See tf4_2102_kramer_1.pdf.			
17	aOnuld	Management attributes	Per 802.3ca, the ONU has only one MAC address.		Completed	Glen Kramer
18	aOnuLlidCount	Management attributes	LLID is not equivalent to L-ONU anymore.		Completed	JC Marion

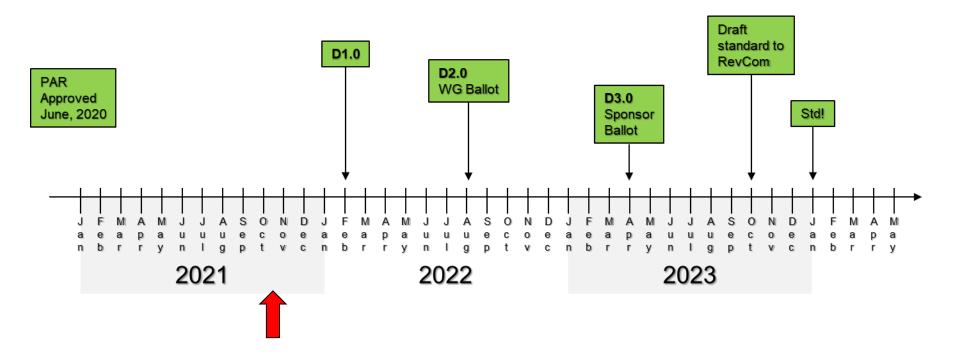
#### **Review of Action Items**

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19	aOnuPonPortCount	Management attributes	Need to clarify if these are physical or logical PON ports	Assigned	Glen Kramer
20	aLlidForwardState	Management attributes	LLIDs don't combine user traffic, MPCP, and OAM anymore.	Assigned	JC Marion
21	aLlidOamFrameRate	Management attributes	OAM rate is per ONU now.	Assigned	JC Marion
22	aOnuUniPortType	Management attributes	This attribute a superset of aOnuUniPortCount (0x00-09). Do we	Completed	Glen Kramer
			keep both?		
23	aLineRateMode	Management attributes	Need to add new downstream and upstream rates.		Ryan Tucker
24	aOnuMulticastLlid	Management attributes	ONU doesn't know whether LLID is multicast or unicast. Just	Completed	Glen Kramer
			needs to report all provisioned LLID values as		
			(Value, Type, Directionality)		
25	aOnuPortConfig	Management attributes	Currently, aONUPortCount tells ONU how many UNI ports to	Completed	Glen Kramer
			enable and how many LLIDs to register.		
			In 802.3ca, LLIDs are directly provisioned by NMS, so no LLID		
			count is needed.		
			The setting and querying of UNI port count can also be done		
			using basic attribute aPhyAdminState (0x07/0x00-25) and basic		
			action acPhyAdminControl (0x09/0x00-05). Do we keep both		
			methods? Should be resolved together with #3 ULID Provisioning		
26	aQueueConfig	Management attributes	Queues need to be associated with either LLID or UNI. Need to	Completed	Glen Kramer
			describe what happens to queues when the LLID is deallocated		
			or UNI is disabled.		
27	Counter of jumbo frames	Management attributes	New attribute(s) are needed	Assigned	Steve Burroughs
28	Counters related to fragments	Management attributes	What to count and how? Proposal is needed	Assigned	Steve Burroughs
29	Counters related to envelopes	Management attributes	New atrtibute(s) are needed	Assigned	Steve Burroughs
30	Counters related to separate channels in	Management attributes	Discuss if we just need new attributes or also object types to	Assigned	Steve Burroughs
	50G-EPON		use channels or context objects for various attributes		
31	Redefine alarm thresholds	Management attributes	Instead of "high" and "low" thresholds, use "set" and "clear"	Assigned	Steve Burroughs
			thresholds and allow the "set" threshold be greater or less than		
			the "clear" threshold. See tf4_2102_kramer_1.pdf		
32	aFecMode	Management attributes	Change is needed to indicate new data rates. Default should be	Completed	Marek Hajduczenia
			set to enabled. Also, FEC should be per ONU, not per LLID.		

#### **Review of Action Items**

33	aOnuPwrSavingCap	Management attributes	Change may be needed to add new power saving modes in a multi-channel 50G-EPON. Should be resolved togetrher with #12 Power Saving	Assigned	Marek Hajduczenia
34	aEeeStatus	Management attributes	What happens when aEeeStatus is set to enabled, but the UNI	Completed	Marek Hajduczenia
5.			does not support the EEE function? Need to support querying the	compreteu	marcitrajudezenia
			ONU capability separately in addition to enabling/disabling the		
			feature.		
35	aPoeStatus	Management attributes	What happens when aPoeStatus is set to enabled, but the UNI	Completed	Marek Hajduczenia
			does not support the PoE function? Need to support querying the		
			ONU capability separately in addition to enabling/disabling the		
			feature.		
36	aMediaType	Management attributes	Not clear what specific difference this attribute makes at the	Completed	Marek Hajduczenia
			ONU. Can it be set in conflict with aPhyType (0x07/0x00-20)?		
			The attribute purpose and function need to be clarified.		
	Allocate new branch codes different from	Management attributes		Completed	Glen Kramer
	1904.1 package A.				
38	Alternative term to replace "SIEPON"	Editorial	Current TF draft uses "SIEPON" in many places. To avoid	Completed	Glen Kramer
			confusion we should agree on a new term to distinguish the		
			25G/50G version of SIEPON from the original SIEPON		
	Support for TR-200 for 25G-EPON needs to	Alignment		Assigned	Kevin Noll
	be confirmed				
	Review and update all relevant references			Completed	Marek Hajduczenia
	in Clause 2 Revise OLT CI Interface definition			Consulated	
		New 902 2cc hehavier		Completed Completed	Glen Kramer
	align the architecture described in Clause 5 with that of 802.3ca	New 802.3ca DenaVIOr		Completed	Glen Kramer
	Attribute to discover whether ONU				
	supports earlier versions of EPON				
	Attribute to discover optical module			Completed	Marek Hajduczenia
	version			compreteu	in a sk hajudezeniu
	updating the attribute: aPhyType			Assigned	Ryan Tucker
	(0x07/0x00-20)			U	,
46	Split the list of normative references into			Assigned	Marek Hajduczenia
	actual normative and bibliography				
47	Carry over software bundle attribute			Assigned	Ryan Tucker
48	Address comment 19 submitted against			Assigned	Marek Hajduczenia
	Draft 0.4 when we get to Draft 2.0				

#### Timeline



#### **Plan for Meeting**

Comment resolution

Other contributions – if any





#### https://grouper.ieee.org/groups/1904/priv ate/4/drafts/D0 5/draft 1904 4 D0 5 cl ean.pdf

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## **Thank You**

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