	INTERNATIONAL TELECOMMUNICATION UNION		N	COM 16 – LS 133 – E		
	TELE	COMMUNICATION	N			
	STANDARDIZATION SECTOR STUDY PERIOD 2013-2016			English only		
				Original: English		
Question(s):	3/16,	5/16			Seoul, 3 - 7 November 2014	
LIAISON STATEMENT						
Source:	Q3/1	Q3/16				
Title:	LS of	LS on TLS and DTLS terminology [to 3GPPA SA3, IETF WG TLS, 3GPP CT4]				
LIAISON STATEMENT						
For action to:		3GPP SA3, IETF WG TLS				
For comment to:		-				
For information to:		3GPP CT4				
Approval:		Rapporteur Group meeting of Q3/16 & Q5 /16 (Seoul, Rep. of Korea, 7 November 2014)				
Deadline:		1 February 2015				
Contact:		stian Groves		Tel:	+61 3 9391 3457	
	Aust	ralia		Email:	christian.groves@nteczone.com	

ITU-T Q3/16 works on support for the TLS and DTLS protocols in decomposed gateways using ITU-T H.248 as gateway control protocol. Initial support of these protocols is available, see published Recommendations ITU-T H.248.90 (10/2014) for TLS and ITU-T H.248.93 (10/2014) for DTLS. Initial support means that the (D)TLS protocols were modelled by so-called H.248 bearer connections (termed as "TLS bearer session" / "DTLS bearer session" in the Recommendations). These are abstractions, not necessarily equivalent to real (D)TLS sessions or (D)TLS connections, but sufficient for basic support by H.248 gateways.

However, additional support in the area of security and multiplexed protocol stacks ("WebRTC") imply a more precise model of TLS and DTLS protocol objects.

ITU-T Q3/16 would appreciate if you could provide clarifications particularly with respect to:

- 1. the distinction between *(D)TLS session* and *(D)TLS connection* (which implies a definition for each term, beyond the available descriptions / glossary from RFC side)
- 2. the *DTLS association* concept, e.g., is it equivalent to a DTLS session or DTLS connection or something in addition?
- 3. the *TLS renegotiation* procedure: what is the definition and at which level (TLS session or TLS connection level) does this procedure occur?
- 4. the TLS resumption procedure: what is the definition and relation to TLS renegotiation?

The location of TLS or DTLS endpoints in terminal and gateway equipment is slightly different due to the decomposition approach of H.248 gateways and their internal, hierarchical model of H.248 terminations and H.248 stream endpoints. Support of (D)TLS procedures (beyond the pure establishment and release) demand for the unambiguous detection of events (such as the

Attention: Some or all of the material attached to this liaison statement may be subject to ITU copyright. In such a case this will be indicated in the individual document.

Such a copyright does not prevent the use of the material for its intended purpose, but it prevents the reproduction of all or part of it in a publication without the authorization of ITU.

differentiation between TLS renegotiation and TLS resumption from TLS establishment). As part of the support of (D)TLS endpoints, the H.248 media gateways are able to determine the TLS profile and protocol capabilities via so called auditing capabilities procedures. However it is unclear which protocol capabilities are related to a (D)TLS session and (D)TLS connection and thus the MGC and MG may have different interpretations. The results of auditing TLS protocol capabilities and parameter values should be based on a common object model between the H.248 media gateway and its controller.

ITU-T Q3/16 is appreciative for your cooperation.