Title:	LS on Improved end-to-end QoS Enhancements for MTSI
Response to:	
Release:	Release 13
Work Item:	QOSE2EMTSI

Source:	3GPP TSG SA WG4
To:	IETF MMUSIC
Cc:	3GPP TSG CT WG1, 3GPP TSG CT WG3, 3GPP TSG CT WG4

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Attachments: \<none>

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1. Overall Description:

SA4 have been studying the resource allocation at session setup and have found that lack of bandwidth information elements and lack of end-to-end alignment can result in different settings of QoS parameters in 3GPP networks, primarily of the Maximum Bandwidth (MBR) and Guaranteed Bandwidth (GBR) parameters.

For MBR=GBR bearers, the b=AS bandwidth can be used to achieve sufficient alignment between networks. However, for MBR>GBR bearers there is not always sufficient information in the SDP that can reliably be used to determine GBR. For speech one can sometimes use the codec information, for example the AMR and AMR-WB mode-set parameter. For video there is only the maximum bitrate, which is used to configure MBR, but there is no codec information that can be used to configure GBR.

This means that local procedures often need to be used to set GBR, which can result in over-allocation and/or under-allocation in one or several networks.

To ensure targeted service quality, SA4 have considered several possible solutions to add more bandwidth information elements to SDP. An advantage to adding this to SDP is that all networks in the path would have the same information and, if used properly, this information could be achieved to reach end-to-end alignment across networks.

The details on the problem analysis and the potential solutions are documented in a technical report, which can be found in http://www.3gpp.org/ftp/Specs/archive/26_series/26.924/26924-d00.zip.

SA4 are planning to continue with a specification phase based on the most promising potential solutions. The intention is to define a new SDP attribute in 3GPP TS 26.114, which can be used to negotiate additional bandwidth properties. This work will be done in coordination with other relevant 3GPP groups.

SA4 would like IETF MMUSIC to consider this work and to provide feedback on whether MMUSIC would like to be involved in the coordination of the future work.

2. Actions:

To IETF MMUSIC group.

ACTION: TSG-SA4 asks IETF MMUSIC to review TR 26.924 and provide feedback (where needed). TSG-SA4 would also like to know if IETF MMUSIC would like to be included in the coordination of the future work.

3. Date of Next TSG-SA4 Meetings:

TSG-SA4 Meeting #87   25th – 29th January 2016   Sophia Antipolis, France.

TSG-SA4 Meeting #88   18th – 22nd April 2016   TBD, US.