Technical Specification Group Services and System Aspects **TSGS#13(01)0406**
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LIAISON STATEMENT

Document Title:	**Convergence of QoS approaches in 3GPP and TIPHON**

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Approval / Status:	WG5 approved
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For:

Action:	X
Information:	X

1. Action/Decision Requested

We appreciate the time taken from your busy schedule in Antwerp to hold the joint meeting between the 3GPP QoS Group and the TIPHON QoS Group (WG5). This enabled us to gain a much better understanding of the status of the QoS work in 3GPP, your priorities and outstanding issues.

Having now had a chance to consider and discuss how your approach to end to end QoS alligns with the work within TIPHON we propose below a number of areas where co-operation between the two groups would, we feel, be mutually advantageous.

We understand that this co-operation would be in terms of the work of your next release and should not impact the present release work program.

2. References

TS 101329 - part 3 – End to end Qos Control & Signalling

TS 101329 - part 2 – End to end Speech QoS Classification

DTS 5010 (draft part 4 of TS 101329) – QoS Managamant (no draft yet available)

DTS 5015 (draft part 8 of TS 101329) - Definition of Multimedia Quality of Service Classes

DTS 5016 (draft part 9 of TS 101329) – Call Completion Performance Classification (no draft yet available)

3. Proposed areas for Co-operation

3.1. UMTS independent QoS signalling and Interworking with External Networks

The TIPHON end-to-end QoS model uses application level QoS signalling as an over-arching control mechanism binding together the QoS mechanisms in different network domains. This approach also allows terminal characteristics to be factored into the QoS model as well as permitting heterogenious QoS mechanisms to be used within the different network domains. The approach, however, requires extensions to call/session and bearer control protocols such as SIP/SDP and H.225/H.245. We understand the necessary extensions are already being worked on in ITU SG16 as part of Annex N of H.323, however the required functionality is still missing from SIP/SDP. We would welcome a joint approach with 3GPP in defining the required extra functionality required to be added to SIP/SDP for QoS support.

3.2. End-to-End QoS Scenarios for Multimedia

New TIPHON WI 5015 (Part 8 of TS 101329) is looking at end to end multimedia QoS service classification. The proposed TIPHON approach is based on the four high level QoS classes as specified in 3GPP 23.107 with further sub-division by application and media type. We plan to do this work jointly with ITU SG12 and 16, also to involve SGs 11 and 13. We would welcome collaboration with 3GPP in defining these requirements and service classes.

3.3. Delay Values for IP Telephony

We have just finished a review of the maximum permitted end-to-end delay values in TIPHON systems. The new values are in the latest edition of TS 101329 part 2. We would welcome comments/inputs on these from 3GPP.

3.4 QoS Management

TIPHON WI 5010 is looking at performance management issues in TIPHON systems. So far we have made slow progress in this area. Again a joint approach to this with 3GPP would be welcomed.

3.5 QoS for Signalling Bearer

A new TIPHON WI 5016 (Part 9 of TS 101329) was approved at the last meeting to look at Call Completion Performance Classification. This will include QoS definition of requirements for signalling messages. A joint approach in this area is also a possibility. We also note ITU SG 11, 13 and 16 interest and activity in this area.

4. Priorities

The proposed joint approach to identifying requirements for SIP/SDP extensions is seen as the most immediate area for collaboration.

5. Next Steps

If you would like to pursue collaboration further in any of these areas we would suggest a joint meeting at your earliest convenience. The area of SIP/SDP co-operation probably requires fairly quick action in order to influence events in the IETF in a timely way.