INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2005-2008

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Question:	17/12	Geneva, 18-27 January 2005

Ref. : TD 32rev1 (GEN/12)

Source:	ITU-T Study Group 12 (Geneva, January 18-27, 2005)
Title:	Response to 3GPP Reply on Mapping between ITU-T and 3GPP QoS Classes and Traffic Descriptors

LIAISON STATEMENT

To:	**3GPP TSG SA2, Copy to: ETSI TISPAN WG5, 3GPP TSG SA**
Approval:	**Agreed to at the SG 12 meeting**
For:	**Information/Action/Comment**
Deadline:	**23 February 2005**

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Please don't change the structure of this table, just insert the necessary information.

As the originator of this series of QoS Class Mapping liaisons in February 2004, Q17/12 was very interested to read 3GPP SA2's response to TISPAN WG5, and thanks WG5 and its chairman for persistence and attention to this matter.

Q17/12 also notes the beginning of SA2 study on end-to-end QoS, and suggests that the draft of TR 23.802 "Architectural enhancements for end-to-end QoS" both reference and incorporate the aspects of ITU-T Recommendation Y.1541, in-force since 2002.

Q17/12 would like to highlight the following points, regarding SA2's liaison reply:

The information on delay variation provided by SA2 is very interesting, and somewhat unusual:

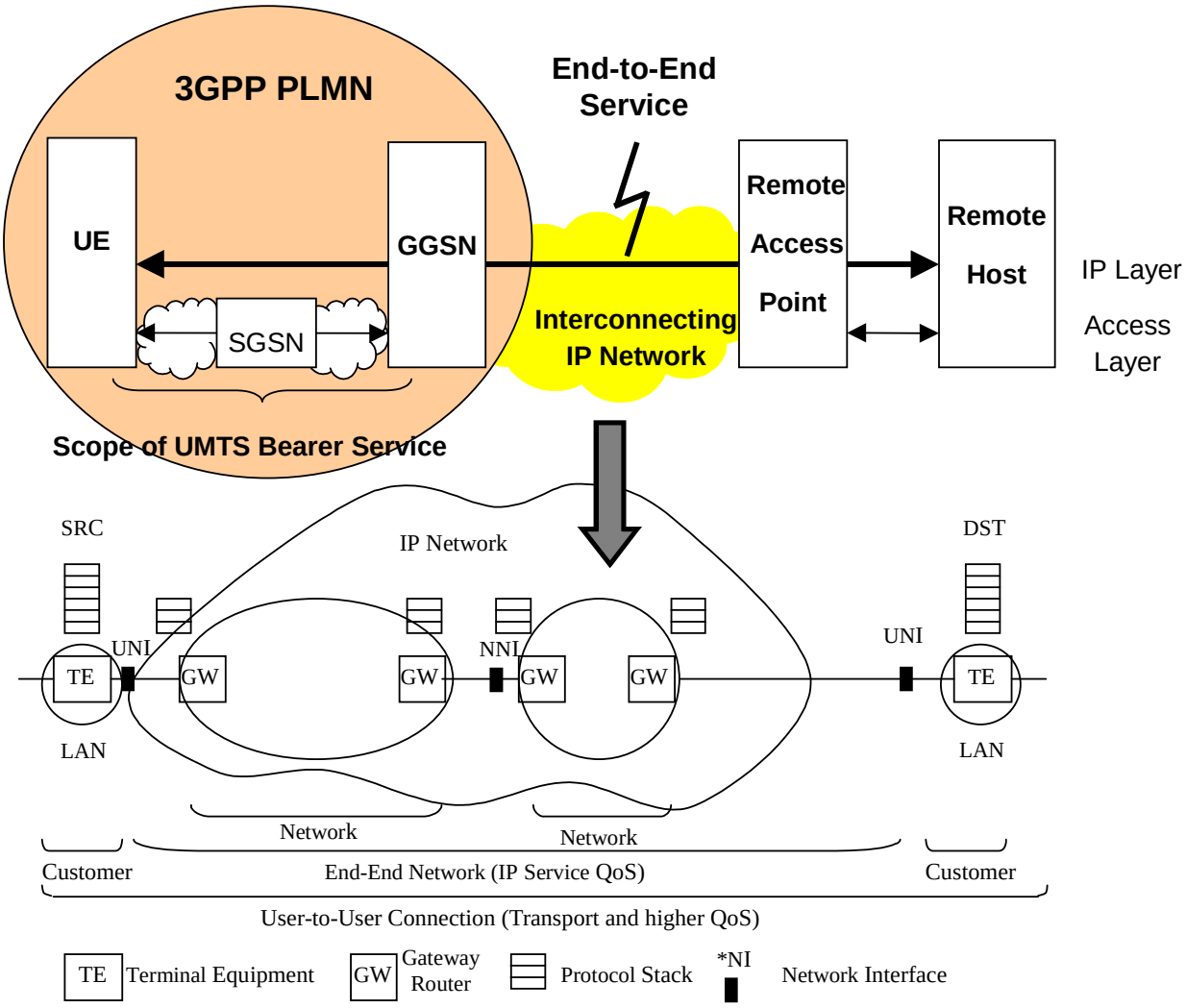
"Especially in a loaded network, it is expected that the mean delay and the maximum delay would converge (e.g., if earliest deadline first scheduling is employed)."

With the mean and maximum delay nearly equal, it appears that this scheduling algorithm smoothes the variation to a great degree. We ask that you share further information with Q17/12 as it becomes available (e.g., on the behaviour of other scheduling algorithms). In the absence of constraints on delay variation for the UMTS Network Section, there will be little choice but to map

3GPP/UMTS Services to Y.1541 Network QoS Classes with Unspecified delay variation, if Y.1541 classes are to be supported end-to-end.

We fully understand the differences between the scope of TS 23.107 and Y.1541. Figure 1 below should help SA2 participants to see how the UMTS Bearer Services correspond to the UNI to UNI Network Performance Objectives specified in Y.1541.

Figure 1 – Correspondence between UE and GGSN of UMTS and TE, UNI, and NNI of ITU-T.



Note that the 3GPP PLMN corresponds to the Customer TE and one of the Networks in the User to User Connection (adapted from Figure 1/Y.1541).

We ask that SA2 keep us informed of their progress.