

ETSI TS 102 250-3 V1.5.1 (2010-08)

Technical Specification

**Speech and multimedia Transmission Quality (STQ);
QoS aspects for popular services in GSM and 3G networks;
Part 3: Typical procedures for Quality of Service
measurement equipment**

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Speech and multimedia Transmission Quality (STQ).

The present document is part 3 of a multi-part deliverable covering the QoS aspects for popular services in GSM and 3G networks, as identified below:

- Part 1: "Identification of Quality of Service aspects";
- Part 2: "Definition of Quality of Service parameters and their computation";
- Part 3: "Typical procedures for Quality of Service measurement equipment";**
- Part 4: "Requirements for Quality of Service measurement equipment";
- Part 5: "Definition of typical measurement profiles";
- Part 6: "Post processing and statistical methods";
- Part 7: "Network Based Quality of Service measurements".

TS 102 250-1 identifies QoS aspects for popular services in GSM and 3G networks. For each service chosen QoS indicators are listed. They are considered to be suitable for the quantitatively characterization of the dominant technical QoS aspects as experienced from the end-customer perspective.

TS 102 250-2 defines QoS parameters and their computation for popular services in GSM and 3G networks. The technical QoS indicators, listed in part 1, are the basis for the parameter set chosen. The parameter definition is split into two parts: the abstract definition and the generic description of the measurement method with the respective trigger points. Only measurement methods not dependent on any infrastructure provided are described in the present document. The harmonized definitions given in the present document are considered as the prerequisites for comparison of QoS measurements and measurement results.

TS 102 250-3 describes typical procedures used for QoS measurements over GSM, along with settings and parameters for such measurements.

TS 102 250-4 defines the minimum requirements of QoS measurement equipment for GSM and 3G networks in the way that the values and trigger-points needed to compute the QoS parameter as defined in part 2 can be measured following the procedures defined in part 3. Test-equipment fulfilling the specified minimum requirements, will allow to perform the proposed measurements in a reliable and reproducible way.

TS 102 250-5 specifies test profiles which are required to enable benchmarking of different GSM or 3G networks both within and outside national boundaries. It is necessary to have these profiles so that when a specific set of tests are carried out then customers are comparing "like for like" performance.

TS 102 250-6 describes procedures to be used for statistical calculations in the field of QoS measurement of GSM and 3G networks using probing systems.