

ETSI TS 102 250-4 V2.2.1 (2011-04)

Technical Specification

Speech and multimedia Transmission Quality (STQ); QoS aspects for popular services in mobile networks; Part 4: Requirements for Quality of Service measurement equipment

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Reference

RTS/STQ-000176m

Keywords

3G, GSM, network, QoS, service, speech

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Contents

Intellectual Property Rights	6
Foreword.....	6
Introduction	7
1 Scope	8
2 References	8
2.1 Normative references	8
2.2 Informative references.....	9
3 Abbreviations	9
4 Overview	10
4.1 General Aspects.....	10
4.2 Considerations on trigger points.....	11
5 General requirements	11
5.1 General requirement for data logging.....	11
5.2 Overview	12
5.3 Required information for logging.....	12
5.3.1 Information on Measurement Setup.....	12
5.3.1.1 General Information	12
5.3.1.2 Information on User Equipment in use	13
5.3.1.3 Information on Store-And-Forward Setups.....	13
5.3.1.4 Information on Data Test Setups.....	13
5.3.2 Measurement Data	14
5.3.3 Status Information	14
5.3.4 Trigger Points	14
5.3.5 QoS Parameters	14
5.4 Test-UE	14
5.5 Antennas.....	14
5.6 Controller/processor/storage.....	15
5.7 Man Machine Interface (MMI)	15
5.7.1 Local Controlled Systems.....	15
5.7.2 Remote Controlled Systems.....	15
5.8 Time sources	15
5.9 Environmental conditions.....	15
6 Fixed QoS Test-equipment (FQT)	16
6.1 General	16
6.2 Controller	16
6.3 Time-sources	16
6.4 Environmental conditions.....	16
6.5 FQT for Telephony Measurements.....	16
6.5.1 Common Aspects.....	16
6.5.2 Telephony Voice.....	16
6.5.3 Telephony Video	17
6.6 FQT for store-and-forward services	17
6.6.1 Common Aspects.....	17
6.7 FQT for Data Measurements	17
7 Mobile QoS Test-equipment (MQT).....	17
7.1 General	17
7.2 Controller	17
7.3 Geographical positioning	18
7.3.1 Format of geographical co-ordinates	18
7.3.2 Accuracy.....	18
7.4 Time-sources	18

7.5	Environmental conditions.....	18
7.6	MQT for Telephony Measurements	18
7.6.1	Common Aspects.....	18
7.6.2	Telephony Voice.....	19
7.6.3	Telephony Video:	19
7.7	MQT for store-and-forward services.....	19
7.8	MQT for Data Measurements.....	19
7.8.1	Common Aspects.....	19
7.8.2	MQT for FTP.....	19
7.8.3	MQT for E-Mail	19
7.8.4	MQT for HTTP.....	19
7.8.5	MQT for WAP	20
7.8.6	MQT for streaming services	20
8	Mobile based measurement equipment	20

Annex A (informative): QoS parameter export.....21

A.1	Overview	21
A.2	XML Bodies.....	21
A.2.1	<measurement>	21
A.2.2	Configuration	23
A.2.2.1	<fileversion>	23
A.2.2.2	<system>.....	23
A.2.2.3	<source>	23
A.2.2.4	<setting>	24
A.2.2.5	<configuration>	24
A.2.3	Measurement Results	25
A.2.3.1	<sequence>	25
A.2.3.2	<trigger>	25
A.2.3.3	<reftrigger>.....	26
A.2.3.4	<qsi>	26
A.2.3.5	<value>	27
A.2.4	Data Dictionary	28
A.2.4.1	GPS.....	28
A.2.4.2	GSM.....	29
A.2.4.2	UMTS	31
A.2.4.3	Layer 3 Message PDU Types	33
A.2.4.4	HSDPA	35
A.2.4.5	HSUPA	37
A.3	Schema	40
A.4	Example.....	40

Annex B (informative): RF COMBINER.....41

B.1	What is blocking?.....	41
B.2	Which parameters have an impact on the effect of blocking?.....	41
B.3	The Standards	41
B.4	The Situation	42
B.4.1	One test mobile transmits, the other one receives	42
B.4.2	Antennas on the roof of a car	42
B.4.3	Conclusion.....	42
B.5	Possible Solutions	43
B.5.1	Attenuators	43
B.5.2	Recommendations	43
B.5.2.1	Benchmarking tests.....	43
B.5.2.2	Coverage tests.....	43
B.5.3	Other equipment involved.....	43
B.5.3.1	Scanners.....	43

B.5.3.2	GPS receiver 1,2/1,5 GHz.....	43
B.5.3.3	Risk for Scanner and GPS receiver.....	43
B.5.4	Mixed Service GSM/WCDMA	43
Annex C (informative):	Bibliography.....	44
History		45

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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 4 of a multi-part deliverable covering the QoS aspects for popular services in mobile networks, as identified below:

- Part 1: "Assessment of Quality of Service";
- 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".

Part 1 builds an umbrella document for this multi-part deliverable. It summarizes the basics of Quality of Service, always seen from the user's perspective. Differences to Quality of Experience (QoE) are also discussed. In extension to generic definitions, specific definitions for this multi-part deliverable are stated here. Furthermore, it gives guidance to assure that QoS assessments can be conducted in a meaningful way and proposes an according process.

Part 2 defines QoS parameters and their computation for popular services in mobile networks. The parameter definition is split into several parts. It contains an abstract definition which gives a generic description of the parameter, an abstract equation and the corresponding user and technical trigger points. The harmonized definitions given in part 2 are considered as prerequisites for the comparison of QoS measurements and measurement results.

Part 3 describes the measurement procedures needed to perform the measurements of QoS parameters in line with the definitions given in part 2, applying the test profiles defined in part 5.

The present document defines the minimum requirements of QoS measurement equipment for mobile 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 performing the proposed measurements in a reliable and reproducible way.

Part 5 specifies typical measurement profiles which are required to enable benchmarking of different mobile networks both within and outside national boundaries.

Part 6 describes procedures to be used for statistical calculations in the field of QoS measurement of mobile networks using probing systems.

Part 7 describes how Quality of Service measurements should be done inside the network without direct access to the end point terminal.