

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

P.862

Corrigendum 1
(10/2007)

SERIES P: TELEPHONE TRANSMISSION QUALITY,
TELEPHONE INSTALLATIONS, LOCAL LINE
NETWORKS

Methods for objective and subjective assessment of
quality

Perceptual evaluation of speech quality (PESQ):
An objective method for end-to-end speech quality
assessment of narrow-band telephone networks
and speech codecs

Corrigendum 1

ITU-T Recommendation P.862 (2001) – Corrigendum 1

ITU-T P-SERIES RECOMMENDATIONS

TELEPHONE TRANSMISSION QUALITY, TELEPHONE INSTALLATIONS, LOCAL LINE NETWORKS

Vocabulary and effects of transmission parameters on customer opinion of transmission quality	Series	P.10
Subscribers' lines and sets	Series	P.30
		P.300
Transmission standards	Series	P.40
Objective measuring apparatus	Series	P.50
		P.500
Objective electro-acoustical measurements	Series	P.60
Measurements related to speech loudness	Series	P.70
Methods for objective and subjective assessment of quality	Series	P.80
		P.800
Audiovisual quality in multimedia services	Series	P.900
Transmission performance and QoS aspects of IP end-points	Series	P.1000

For further details, please refer to the list of ITU-T Recommendations.

ITU-T Recommendation P.862

Perceptual evaluation of speech quality (PESQ): An objective method for end-to-end speech quality assessment of narrow-band telephone networks and speech codecs

Corrigendum 1

Source

Corrigendum 1 to ITU-T Recommendation P.862 (2001) was agreed on 11 October 2007 by ITU-T Study Group 12 (2005-2008).

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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Table 2 should be replaced by:

**Table 2 – PESQ is known to provide inaccurate predictions when used
in conjunction with these variables, or is otherwise not intended
to be used with these variables**

Test factors
Listening levels (See Note 1.)
Loudness loss
Effect of delay in conversational tests
Talker echo
Sidetone
Coding technologies
Replacement of continuous sections of speech making up more than 25% of active speech by silence (extreme temporal clipping)
EVRC family codecs (See Note 2.)
Applications
In-service non-intrusive measurement devices
Two-way communications performance
NOTE 1 – PESQ assumes a standard listening level of 79 dB SPL and compensates for non-optimum signal levels in the input files. The subjective effect of deviation from optimum listening level is therefore not taken into account.
NOTE 2 – P.862 systematically under-predicts the quality of the EVRC family codecs. The comparison of different conditions (e.g., bit rates, error patterns) using EVRC is possible by P.862.1/.2 due to the correct relative ranking of the quality scores within those conditions. For more information see clause 13 of [ITU-T P.862.3].

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks, open system communications and security
Series Y	Global information infrastructure, Internet protocol aspects and next-generation networks
Series Z	Languages and general software aspects for telecommunication systems