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| Title: ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | | TSAG-TD358 |
| TSAG |
| **Original: English** |
| **Question(s):** | | N/A | | | Geneva, 22-26 January 2024 |
| **TD (Ref.:** [SG12-LS40](http://handle.itu.int/11.1002/ls/sp17-sg12-oLS-00040.docx)**)** | | | | | |
| **Source:** | | ITU-T Study Group 12 | | | |
| **Title:** | | LS/i on deletion of P.862.[x] Recommendations [from ITU-T SG12] | | | |
| **LIAISON STATEMENT** | | | | | |
| **For action to:** | | | ITU-T SG2, SG3, SG5, SG9, SG11, SG13, SG15, SG16, SG17, SG20, TSAG | | |
| **For information to:** | | | - | | |
| **Approval:** | | | ITU-T Study Group 12 meeting (Mexico City, 28 September 2023) | | |
| **Deadline:** | | | - | | |
| **Contact:** | | | Tania Villa  SG12 Chair  IFT, Mexico | E-mail: [tania.villa@ift.org.mx](mailto:tania.villa@ift.org.mx) | |
| **Contact:** | | | Jens Berger  Rapporteur, Q9/12  Rohde & Schwarz, Switzerland | E-mail: [jens.berger@rohde-schwarz.com](mailto:jens.berger@rohde-schwarz.com) | |

A new liaison statement has been received from SG12.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp17-sg12-oLS-00040.docx>.

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|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | | **SG12-LS40** |
| **STUDY GROUP 12** |
| **Original: English** |
| **Question(s):** | | 9/12 | | | Mexico City, 19-28 September 2023 |
| **Ref.:** [**SG12-TD475**](https://www.itu.int/md/T22-SG12-230919-TD-GEN-0475/en) | | | | | |
| **Source:** | | ITU-T Study Group 12 | | | |
| **Title:** | | LS on deletion of P.862.[x] Recommendations | | | |
| **LIAISON STATEMENT** | | | | | |
| **For action to:** | | | All ITU-T Study Groups | | |
| **For information to:** | | |  | | |
| **Approval:** | | | ITU-T Study Group 12 meeting (Mexico City, 28 September 2023) | | |
| **Deadline:** | | | - | | |
| **Contact:** | | | Tania Villa  SG12 Chair  IFT, Mexico | E-mail: [tania.villa@ift.org.mx](mailto:tania.villa@ift.org.mx) | |
| **Contact:** | | | Jens Berger  Rapporteur, Q9/12  Rohde & Schwarz, Switzerland | E-mail: [jens.berger@rohde-schwarz.com](mailto:jens.berger@rohde-schwarz.com) | |

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| **Abstract:** | This Liaison Statement informs all ITU-T Study Groups of SG12’s proposed deletion of the ITU-T P.862.[x] ‘PESQ’ series of Recommendations and encourages all Study Groups to take appropriate action, as needed. |

ITU-T Study Group 12 (SG12) wishes to inform you that we have recently discussed the deletion of the ITU-T P.862.[x] Perceptual evaluation of speech quality (PESQ) series of Recommendations related to speech quality prediction, in line with WTSA Resolution 1 §9.8.2.

The PESQ speech quality prediction algorithm (approved in 2001) was developed to predict listening quality in pure narrowband speech transmission scenarios. It is thus unable to provide accurate and reliable results in the case of advanced time warping and packet-loss replacement technologies as well as dynamic gain adaptions which are typical in today’s VoIP and VoLTE connections.

To address these limitations and extend to more recent technologies, Recommendation ITU-T P.863 *“Perceptual objective listening quality prediction”* (initially approved in 2011, latest edition in 2018) was developed which covers both narrowband and fullband modes.

The narrowband mode in ITU-T P.863 maintains backward compatibility with P.862 allowing a seamless transition from P.862 to P.863, while the fullband mode has become the standard for quality measurements in current telephony networks.

Consequently, the PESQ-related Recommendations are no longer pertinent in today's telecommunication landscape.

Given this rationale, SG12 has agreed to advise the TSB Director to initiate the deletion of the P.862.[x] series of Recommendations which are under the purview of SG12:

* ITU-T 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*”
* ITU-T P.862.1 “*Mapping function for transforming P.862 raw result scores to MOS-LQO*”
* ITU-T P.862.2 “*Wideband extension to Recommendation P.862 for the assessment of wideband telephone networks and speech codecs*”
* ITU-T P.862.3 “*Application guide for objective quality measurement based on Recommendations P.862, P.862.1 and P.862.2*”

Based on a preliminary list of PESQ-related Recommendations prepared by TSB (see Annex A), we note that there are Recommendations under the purview of other Study Groups that reference the P.862.[x] series and encourage all Study Groups to, likewise, take appropriate action.

**Annex A**

**Preliminary list of Recommendations referencing the P.862.[x] series**

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| **Recommendation** | **Responsible SG** |
| [G.161](https://www.itu.int/rec/T-REC-G.161) (2012), Interaction aspects of signal processing network equipment | SG16 |
| [G.161.1](https://www.itu.int/rec/T-REC-G.161.1) (2014), Do-no-harm testing | SG16 |
| [G.799.1](https://www.itu.int/rec/T-REC-G.799.1)/[Y.1451.1](https://www.itu.int/rec/T-REC-Y.1451.1) (2016), Functionality and interface specifications for GSTN transport network equipment for interconnecting GSTN and IP networks | SG16 |
| [G.799.3](https://www.itu.int/rec/T-REC-G.799.3) (2011), Signal processing functionality and performance of an IP-to-IP voice gateway optimised for the transport of voice and voiceband data | SG16 |
| [J.161](https://www.itu.int/rec/T-REC-J.161) (2007), Audio and video codec requirements and usage for the provision of bidirectional audio services over cable television networks using cable modems | SG9 |
| [J.361](https://www.itu.int/rec/T-REC-J.361) (2006), IPCablecom2 codec and media | SG9 |
| [Q.3911](https://www.itu.int/rec/T-REC-Q.3911) (2010), Parameters for monitoring voice services in NGN | SG11 |
| [Q.3912](https://www.itu.int/rec/T-REC-Q.3912) (2012), Set of parameters for monitoring next generation network streaming services | SG11 |
| [Q.3932.1](https://www.itu.int/rec/T-REC-Q.3932.1) (2015), IMS/NGN performance benchmark – Part 1: Core concept | SG11 |
| [Q.3932.2](https://www.itu.int/rec/T-REC-Q.3932.2) (2015), IMS/NGN performance benchmark – Part 2: Subsystem configurations and benchmarks | SG11 |

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