

TECHNICAL REPORT

AMENDMENT 2

Code of practice for hearing-loop systems (HLS)

(standards.iteh.ai)

IEC TR 63079:2017/AMD2:2020

<https://standards.iteh.ai/catalog/standards/sist/2001deb2-4b36-4688-bb7e-45cb99c23fe4/iec-tr-63079-2017-amd2-2020>



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67 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

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Warning! Make sure that you obtained this publication from an authorized distributor.

Add, after the existing Annex J, added by Amendment 1, the following new annex:

Annex K (informative)

Control of time-differences between information presented to a recipient via two transmission channels or media

K.1 General

Related information presented to a recipient via two channels with timing differences can be difficult or impossible to interpret. With smaller time differences, interpretation can be possible but stressful.

Examples of sources of time differences include:

- processing time in digital communication systems and video equipment;
- digital signal processing in hearing-loop amplifiers;
- propagation of sound from a source at a distance.

Because such situations can arise in very different ways, and involve different communication technologies, some of which are not yet exploited, it is appropriate to give recommendations regarding timing differences, without a very long and complicated discussion of how they can arise and how to change them.

K.2 Audible speech signals

It is recommended that the time difference between audible speech signals of similar sound level should, if possible, be 30 ms or less, with a limit of acceptability of 40 ms.

NOTE Music can also be affected, but the acceptable time difference varies with the type of music, and data on this are not readily accessible.

K.3 Audible speech signal and video display of the talker

In order to achieve acceptable lip-synch, the timing difference should be less than 50 ms, especially if the video signal lags the audible signal. This value is deduced from EBU Recommendation R37-2007.

K.4 Priority

In most cases, if both of the recommendations stated in Clauses K.2 and K.3 cannot be met simultaneously, priority should be given to speech signals.

Bibliography

Add the following new reference:

EBU Recommendation R37-2007, *The relative timing of the sound and vision components of a television signal*, European Broadcasting Union Geneva, 2007

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