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Titel:

Testing Wideband Terminals

Wideband speech transmission is likely to come up in the near future, leading to an extension of the transmitted frequency range from 300-3400 Hz (narrowband) to 50-7000 Hz or beyond. Wideband-capable phones are under development, the network infrastructure is moving towards the inclusion of wideband speech coders and an interoperation with wideband terminals.
Consequently, there is a high demand for testing in order to ensure high speech quality for these scenarios, both for the network side (choice of speech coders, tandem operation, etc.) and for the terminals. It can be assumed that the acceptance of wideband communication will highly depend on the service quality perceived by the users. There are only very rudimental test specifications for wideband terminals available now. Requirements are often unknown due to a lack of subjective test results. This contribution discusses new procedures and requirements for wideband terminal testing. Subjective test results and new measurement approaches are introduced and discussed in the light of practical examples.

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