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Performance characterization
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1 Scope

The present document provides information on the Enhanced Voice Services (EVS) codec Selection, Verification and Characterization Phases which were run using the fixed-point code (3GPP TS 26.442). Experimental test results from the subjective quality testing are reported to illustrate the behaviour of the EVS codec. Additional information is provided on implementation complexity of the EVS codec and objective test results. Also the verification results for the floating-point version of the EVS codec (3GPP TS 26.443) are presented.

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 26.441: "Codec for Enhanced Voice Services (EVS); General overview".
- [3] 3GPP TS 26.442: "Codec for Enhanced Voice Services (EVS); ANSI C code (fixed-point)".
- [4] 3GPP TS 26.443: "Codec for Enhanced Voice Services (EVS); ANSI C code (floating-point)".
- [5] 3GPP TS 26.444: "Codec for Enhanced Voice Services (EVS); Test Sequences".
- [6] 3GPP TS 26.445: "Codec for Enhanced Voice Services (EVS); Detailed algorithmic description".
- [7] 3GPP TS 26.446: "Codec for Enhanced Voice Services (EVS); Adaptive Multi-Rate - Wideband (AMR-WB) backward compatible functions".
- [8] 3GPP TS 26.447: "Codec for Enhanced Voice Services (EVS); Error concealment of lost packets".
- [9] 3GPP TS 26.448: "Codec for Enhanced Voice Services (EVS); Jitter buffer management".
- [10] 3GPP TS 26.449: "Codec for Enhanced Voice Services (EVS); Comfort Noise Generation (CNG) aspects".
- [11] 3GPP TS 26.450: "Codec for Enhanced Voice Services (EVS); Discontinuous Transmission (DTX)".
- [12] 3GPP TS 26.451: "Codec for Enhanced Voice Services (EVS); Voice Activity Detection (VAD)".
- [13] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction".
- [14] 3GPP TS 26.131: "Terminal acoustic characteristics for telephony; Requirements".
- [15] 3GPP SP-100202: "EVS Work Item Description".
- [16] 3GPP TR 22.813: "Study of use cases and requirements for enhanced voice codecs for the Evolved Packet System (EPS)".
- [17] EVS-3 Permanent Document: "EVS Performance Requirements".
- [18] EVS-4 Permanent Document: "EVS Design Constraints".
- [19] EVS-5b Permanent Document: "EVS Selection Rules".