Enhanced Voice Services

High quality communication codec for VoLTE and Vo5G

Enhanced Voice Services (EVS) is the next-generation 3GPP communications codec designed for Voice over LTE (VoLTE) and 5G voice (Vo5G) services. It enables phone calls with Full-HD voice quality and brings call fidelity to the same level as experienced on digital media today. The technology delivers natural-sounding conversations with unprecedented clarity by combining the coding of speech, music, and mixed content with the full audio spectrum.

Full-HD voice audio quality

EVS delivers unprecedented quality for wideband and super-wideband services. It outperforms today's mobile phone calls.

High efficiency

The codec's improved coding efficiency allows Full-HD Voice audio quality within a wide bit rate range from 9.6 to 128 kbit/s. Bit rates for narrow- and wideband start at 5.9 kbit/s. A result of these low bit rates is increased network capacity.

Reliable service

Mobile network services can be particularly affected by packet loss issues, with an ensuing negative impact on speech intelligibility. EVS is designed to be robust against packet loss and incorporates unique concealment techniques to minimize the impact of packet loss. It also includes a channel-aware mode for especially adverse network conditions. In addition, a jitter buffer management solution further compensates for network delay fluctuations.

Backward-compatible to existing VoLTE services

The EVS interoperability mode allows the codec's seamless integration into deployed AMR-WB services without any further implementations being necessary.

Contact

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