

Options for Simplification of the Opus Codec

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IETF 121

Proposal

- Opus has several features that not everybody uses
- Encoder is already free to omit features/tools
- Proposal: allow decoders to omit/change some tools that do not impact interoperability

Strawman List of Optional Features

- Normative mode transitions using 5-ms CELT frames
 - Transitions can be achieved using PLC
- SILK stereo support (rarely used)
 - Allow decoding only the mid and ignoring side
- CELT folding could be replaced by any other energy-injecting technique (potential quality improvements)

Benefits

- More implementation freedom
- Smaller/simpler code for embedded systems
- Better guidance on “cutting corners”