Since IETF 79

• Seamless switching
  • Voice/audio
  • Mono/stereo
  • Frame size
• Implementation bug fixes (PLC, DTX, ...)
• Forward Error Correction (FEC)
• Quality improvements
• Lots of security testing (fuzzing, valgrind, static)
• “Freeze” bit-stream*
In More Details

- Post-filter filter taps tuning
- Improved bit allocation tuning
- Transient coding improvements
  - Better detection
  - Low bitrate improvement
- Code/Codebook size reduction
- Better LSF quantizer
Opus Current Status

• Suitable for both voice and music
• Very wide operating range
  • Variable frame size from 2.5 ms to 60 ms
  • Variable bitrate from 6 kb/s to 510 kb/s
  • Narrowband (8 kHz) to fullband (48 kHz) support
  • Mono and stereo support
  • CBR and VBR support
• Competitive with state-of-the-art speech/audio codecs throughout operating range
TODO List

- More implementation torture testing
- Finish stereo support for voice mode
- Bug fixing
- Draft update (algorithm description)