

Draft RTP Profile for Speex Audio

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`draft-herlein-speex-rtp-profile-01.txt`

About Speex

Speex is based on the CELP encoding technique with support for either narrowband (nominal 8kHz), wideband (nominal 16kHz) or ultra-wideband (nominal 32kHz), and (non-optimal) rates up to 48 kHz sampling also available.

About Speex (continued)

- Free software/open-source, royalty-free
- Integration of wideband and narrowband in the same bit-stream
- Wide range of bit-rates available
- Dynamic bit-rate switching and variable bit-rate (VBR)
- Voice Activity Detection (VAD, integrated with VBR)
- Variable complexity

Changes between -00 and -01 drafts

- Expanded RTP header section detailing bitfield usage.
- Expanded payload section detailing frame packing and fragmentation handling.
- Expanded example packet section detailing single and multiple Speex frame packing.
- MIME type section expanded to clarify usage scenario of audio/speex.

Feedback and plans for -02 draft

- Submission of IPR statement to IESG Secretary
- Expansion of introduction section
- Clarification of P and M bit usage in RTP header
- Clarification of sample rate change and bit rate coupling
- Clarification of octet alignment in section 3.2
- Expansion of Speex examples section

Feedback and plans for -02 draft (cont.)

- Renaming of IANA Considerations section and addition to Encoding considerations
- a=fmtp and ebw usage clarification
- Expansion of SDP section
- Change reference to ITU document in section 6
- Other comments and feedback?