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RTP Payload formats

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Open Source Multimedia

XIPH.org

"ΞIΨ"
Xiph.org.

Open Source and Open Formats
free and freely implementable
Xiph.org Multimedia

Ogg container - RFCs 3533, 3534

Vorbis - general music/audio

Speex - voice

FLAC - lossless audio

Theora - general video (based on VP3)
Speex...

Is straightforward

review
draft-ietf-avt-rtp-speex-00
Vorbis / Theora

Configuration headers

ID | Comm. | tables | Data | D | D | D | D | ... 

ID + tables must be received before decoding can begin!
Vorbis/Theora

How to send?
- Inline
- Out-of-band

How to match?
- Payload header id field
Vorbis / Theora

Payload header

- Setup id
- Reserved setup
- Frag type
- # pkts

Data packed XOR fragmented
Decoder Setup Transmission

Setup id $\leftrightarrow$ 10+ tables packets

Marked through URI in SDP:
- RTSP or HTTP url for retrieval
- RTSP for all-headers multicast SDP
- Static mapping for broadcast

Also include a long hash for caching.
Drafts

http://svn.xiph.org/trunk/vorbis/doc/
draft-kerr-avt-vorbis-rtp-05.txt

http://svn.xiph.org/trunk/theora/doc/
draft-barba-to-avt-rtp-theora-00.txt
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