RTC-Web
Codec and Media Processing

IETF 81

Cary Bran
Cisco Systems

Media Processing

Recommended functionality for RTC-web endpoint devices:

- Automatic gain control
- Echo cancellation, including acoustic echo cancelation
- Auto adjustments based on headset detection
- Packet Loss Concealment

Codec Recommendations

- Voice codec recommendations attempt to ensure interoperability between RTC-Web clients and legacy phone systems.

- Video codec recommendations are another story...

OOPS!

- Current proposal is WRONG in requiring Telephone Events [RFC4734].

- Updated versions will read that DTMF, Telephony Tones and Signals [RFC4733] is REQUIRED.

Audio Codec Recommendations

Required Audio Codecs

- PCMA/PCMU [RFC3551 - Section 4.5.14]
- DTMF[RFC4734]
- Opus[draft-ietf-codec-opus]

Optional Audio Codecs
- G.729
- G.722
- G.722.1
- G.723

- AMR
- AMR-WB
- iLBC
- L16

Video Codec Recommendations

Required Video Codecs

- VP8 [VP8 Data format and decoding guide]

Optional Video Codecs

- H.263
- H.264-AVC
- H.264-SVC