

# CODEC

IETF 80

Prague, Czech Republic

# Agenda

1. Agenda Bash – 2min [Chairs]
2. Admin - 2min [Chairs]
3. Liaison Update – 5min [Paul Coverdale]
4. IPR Update – 5min [Stephan Wenger]
5. Requirements – 10min [Jean-Marc]
6. Opus Update – 30min [Koen, Jean-Marc]
7. Testing Results - 30min
  1. Jean-Marc (Broadcom results)
  2. Tim Terriberry (HydrogenAudio results)
  3. Jan Skogland (3 Google tests)
  4. Greg Maxwell (Objective results)
  5. Koen Vos (Skype results)
8. Guidelines Discussion – 30min [Chairs]

# Note Well and IPR Policy

- Note Well: everything you say/write here is a Contribution and under BCP 78 and BCP 79
- BCP 79: Whenever you make a Contribution you **MUST** *timely disclose* patents you are reasonable and personally aware of (w/ patent #)
- Timeliness: one month is timely, three months may not be timely, post facto is not timely (note: BCP 79 does not define timelines)
- IETF and WG do not take position on scope or validity of patent claims, nor commercial terms under which patent claims may be available.
- Individuals working in the IETF may do so, but must never infer that their position be a WG/IETF position.

# Thank you Michael!

- Michael Knappe stepping down as codec co-chair

# draft-ietf-codec-requirements

- 3-week WGLC issued Jan 23, 2011
- Subsequent debate about RFC2119 requirements language
  - IETF has no clear guidance for requirements document – WG choice
  - Current document does not use RFC2119 language, OK based on list discussion
- Recent comments from Christian Hoene

# Hoene-1

- Add PTT as a requirement
  - Mentioned in a tracker comment but no input from group in list discussion
  - Requirement is met by Opus
- Proposal:
  - Accept change

# Hoene-2

- Proposed change in set of reference codecs we should beat
  - Narrowband:
    - Add: AMR
    - Remove: Speex, iLBD
    - Keep: GSM-FR
  - Wideband
    - Add: AMR-WB
    - Remove: G.722, Speex (WB)
    - Keep: G.722.1
  - SWB:
    - Add: AAC-LD
    - Remove: Speex (UWB)
    - Keep: G.722.1C
  - Add Fullband:
    - MP3 LAME, G.719
- Editor proposal: Do not accept change. Been no discussion.

# Hoene-3

- Section 4.4 lists computational requirements for the codec, including the ability to determine voice signal energy cheaply for mixers
- Christian's comment: is this is a measureable set of requirements
- Editors proposal:
  - These are reasonable requirements
  - It is not necessary that every requirement be measureable by quantitative analysis – qualitative analysis is OK, as it is here for some of this (e.g., determining voice signaling energy)
  - Recommendation: reject change



# Hoene-4

- Add requirement for decoder side PLC
  - And require that implementors cannot remove PLC from their implementations
- Editor commentary:
  - Agree it is a reasonable requirement that the reference implementation include a PLC
  - Disagree that, if PLC is not a MTI part of the decoder, that the spec require PLC to be present
  - Disagree that a requirements document for the codec is the right place for implementor guidelines
- Proposal:
  - Accept requirement for PLC in reference implementation
  - Reject requirement that PLC of some sort must be present

# Hoene-5

- Proposal to add requirement for “audio forensics” – ability of encoder to turn off DTX in emergency situations
- Editor proposal:
  - Accept requirement

# Guidelines and Testing

- Chairs View:
  - We need to agree on a set of test results we will provide to IESG to help them make a decision
  - If no one is willing to do the testing we cannot provide it
  - We will – right now – document a list of the tests we will do, who will do it, by when, in a slide, and that will constitute the test plan we will execute

# Test Plan

Test	Who	When