

# **RTP Payload for AMR-WB+ audio codec**

`draft-sjoberg-avt-rtp-amrwbplus-01.txt`

Johan Sjöberg, Ericsson

Magnus Westerlund, Ericsson

Ari Lakaniemi, Nokia

# Changes from version 00

- Clarification on AMR-WB support
- Revised number of channels definition
- Offer/answer considerations
- Editorial fixes

# Clarification on AMR-WB support

- AMR-WB is a subset of AMR-WB+
- AMR-WB+ end-point SHOULD also indicate AMR-WB support when possible to facilitate interoperability
  - Not possible in all scenarios, e.g. streaming of pre-stored AMR-WB+ audio

# Revised number of channels definition

- AMR-WB+ extension modes include both mono and stereo modes
  - In-band mode signaling
  - Switching between mono and stereo possible also within a session
- Proposal: specify separate PTs for mono and stereo modes, e.g.

```
m=audio 49120 RTP/AVP 98 99
a=rtpmap:98 AMR-WB+/96000/1
a=rtpmap:99 AMR-WB+/96000/2
a=fmtp:98 interleaving=30
a=fmtp:99 interleaving=30
a=maxptime:100
```

- Note also that 3GPP design constraints require that AMR-WB+ decoder will be able to produce monophonic audio output from incoming stereo data

# Offer/answer considerations

- AMR-WB+ payload format includes optional features (robust sorting, crc, interleaving) possibly not supported by all AMR-WB+ end-points
- If optional features offered, it is RECOMMENDED to offer also basic AMR-WB+ configuration without options to facilitate interoperability

# News from 3GPP TSG SA WG4

- Codec selection tests finalized during Dec 03 – Feb 04
  - AMR-WB+ selection tests
  - PSS/MMS codec selection tests
- 3GPP TSG SA WG4 has decided to recommend AMR-WB+ codec as an optional audio codec for PSS & MMS services
- The final decision on codec selection will be made by 3GPP TSG SA plenary in March 04
- Technical specification will be finalized by May and expected to be approved by June.
- Note also that 3GPP Release 6 schedule has been postponed, the current deadline is the earliest June (September?) 04

# Next steps

- 3GPP TSG SA (WG4) follow-up
  - Finalize the open issues and references in the draft once the 3GPP specifications are available
- Feedback from the AVT group
  - Questions?
  - Comments?
  - Suggestions?
- **A working group item?**