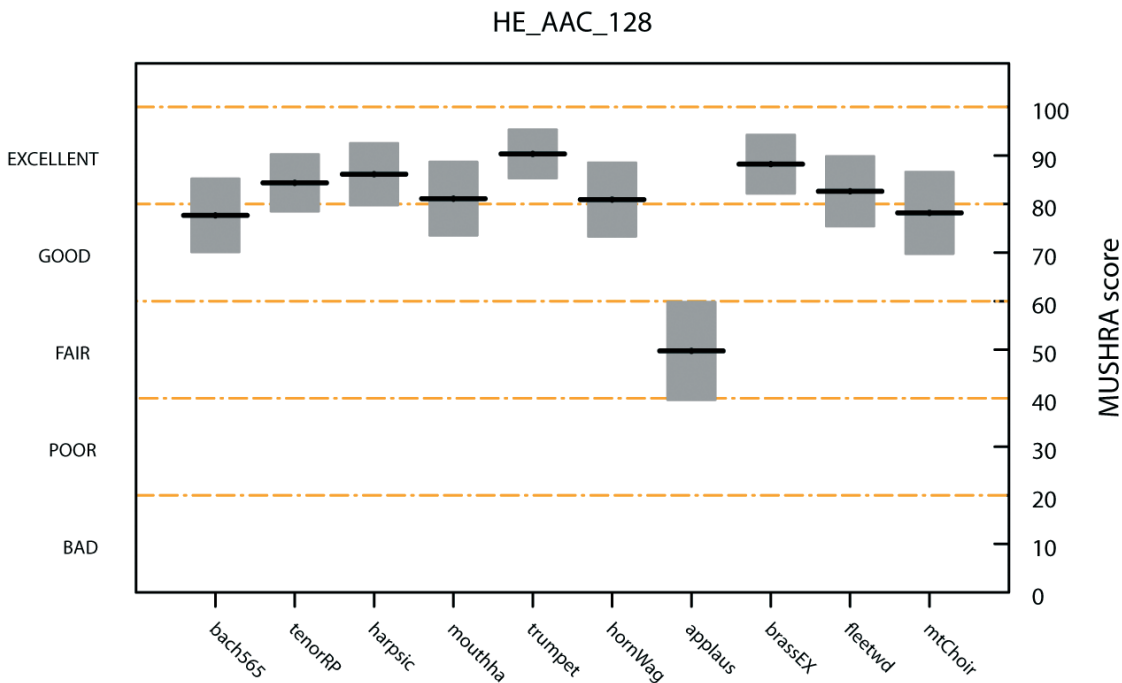


Main conclusions

- DD+ (Dolby Digital Plus) and HE AAC (High Efficiency Advanced Audio Coding) are the best candidates for broadcasting HDTV audio services at satellite, cable, terrestrial and IPTV networks.
- Bitrates of 448 kbit/s (or higher) represent a safe choice for HDTV audio television service, regardless the codecs used.
- If bitrates below 448 kbit/s are used, some compromises may have to be accepted by broadcasters and end users.
- At lower bitrates (below 160 kbit/s) HE AAC performs better than other codecs tested.



Example: High Efficiency (HE) Advanced Audio Coding (AAC) at 128 kbit/s

The EBU thanks the following organisations for participating in the tests:

- Austrian Radio and Television (ORF)
- Bayerischer Rundfunk
- BBC Research
- Institute for Broadcasting (IRT)
- Orange France Telecom
- Polish Television (TVP)
- Radio France
- RAI Research Centre (CRIT)

*A full report of the tests is available on www.ebu.ch
 EBU Tech. doc. 3324 – EBU Subjective Evaluations of Multichannel Audio Codecs,
 Contribution of Project Group DIMAE, September 2007.*