

TSG-SA4#35 meeting
May 9-13, 2005, San Diego, CA, USA

Tdoc S4 (05)0437

Title: LS response to "S4-050005 on speech Codecs for PoC"

Source: 3GPP TSG SA4
To: 3GPP2 TSG-C
Cc: OMA POC WG, 3GPP TSG SA, 3GPP TSG SA2, 3GPP TSG CT1, 3GPP2 TSG-S

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1. LS Reply

3GPP TSG SA4 (in short: SA4) thanks 3GPP2 TSG-C for their "Response to S4-040857 on speech codecs for PoC", received in Tdoc S4-050005. SA4 has considered the following proposal and action of 3GPP2 TSG-C:

In order to minimize transcoding for PoC services, 3GPP2 proposes that:

- a) 3GPP to consider adoption of EVRC [1, 2] as an optional codec for 3GPP PoC services.*
- b) 3GPP2 to consider adoption of AMR as an optional codec for 3GPP2 PoC services.*

Actions:

- *3GPP to inform 3GPP2 their decision on EVRC as an optional PoC codec in 3GPP.*

SA4 would like to inform 3GPP2 that:

- SA4 has discussed the proposal in light of various PoC use cases considering speech quality, transcoding requirements and terminal implementation costs. It was concluded that:
 - Defining a single codec for all PoC terminals would completely avoid the need for transcoding;
 - Defining multiple optional codec support would reduce the need for transcoding but not remove this need in all use cases;
 - One way to improve quality when doing AMR to/from EVRC transcoding is to use higher speech coding rates. This may require additional considerations for the OMA transcoding function.

SA4 recognizes that the current 3GPP Packet Switch Conversational specification (TS 26.235) does not prevent the use of other media Codecs in addition to the default media Codecs. Actually, PoC terminals use SDP to exchange their media Codecs capabilities and SA4 believes that signaling of EVRC is possible. Therefore it was agreed to bring to the attention of 3GPP2 that **the support of EVRC in 3GPP PoC terminals is possible.**

2. Actions:

None

3. Dates of Next TSG-SA4 Meetings:

SA4#35 5 – 9 September 2005 Paris, France