

TSG-SA4#27 meeting  
July 7-11, 2003, Munich, Germany

***Tdoc S4 (03)0547***

Agenda Item: 8, 10

**Title:** LS on “**Assessment of the SES codecs ability to reconstruct speech**”  
**Response to:** Reply to the task assigned from SA#20 to SA4  
**Source:** SA4  
**To:** TSG SA#21  
**Cc:** -  
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**Attachments:** none

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### 1. Overall Description:

There are two aspects to be considered when assessing the speech reconstruction capability of the SES (Speech Enabled Services) codecs. *Intelligibility* and *quality* are two separate quantities which can be determined in the different type of listening experiments. The capability to reconstruct intelligible speech is regarded as a basic requirement for any codec to be used in real-world systems. Quality is measured as it influences the pleasantness of user experience.

The following codecs have been submitted as the candidate codecs for SES:

- AMR Codec and AMR WB Codec.
- The ETSI DSR standard ES 202 050 for distributed speech recognition and its extension.

### 2. Conclusions:

Based on the work done in ETSI Aurora [1,2], both the 8 and 16 kHz DSR codec versions are capable of reconstructing intelligible speech. Therefore, there is no need to carry out the intelligibility tests for the SES candidate codecs. Reconstruction quality of the SES codec candidates will be measured for informative purposes only.

### 3. Date of Next SA4 Meeting:

SA4#29                      24th – 28th November 2003 (TBD)

### References:

- [1] S4-030544, “SES DSR intelligibility testing DRT report by Dynastat”  
[2] S4-030545, “Extended advanced DSR front-end reconstruction intelligibility tests by ETSI”