**3GPP TSG SA WG4#128 Tdoc S4-24xxxx**

Jeju, Korea, 20 – 24 May, 2024

3GPP TSG SA Plenary #104 Tdoc SP-24xxxx

Shanghai, China, 18 – 21 June 2024

**Title: Presentation of Specification/Report to TSG:
TR26.997, Version 1.1.0**

**Source: S4**

**Document for: Information**

**Abstract of document:**

The codec for Immersive Voice and Audio Services (IVAS) is part of a framework comprising besides encoder and decoder, renderer associated with the support of stereo and immersive audio formats.

The IVAS codec is an extension of the 3GPP Enhanced Voice Services (EVS) codec; it provides full and bit exact EVS codec functionality for mono speech/audio signal input.

On top of that the IVAS codec is optimized for encoding and decoding of stereo and immersive audio formats, Immersive audio formats comprise multi-channel audio (5.1, 5.1.2, 5.1.4, 7.1, 7.1.4 setups), scene-based audio (Ambisonics up to order 3), metadata-assisted spatial audio (MASA), and object-based audio (Independent Stream with Metadata (ISM) up to 4 ISMs). In addition, the following combined immersive audio formats are supported: object-based audio with scene-based audio (OSBA, up to 4 ISMs with Ambisonics) and object-based audio with metadata-assisted spatial audio (OMASA, up to 4 ISMs with MASA). Rendering between many of the formats is supported, including binaural rendering for headphone reproduction with head-tracking and rendering to various loudspeaker configurations.

In addition, an IVAS specific split rendering solution has been selected in the ISAR work item and integrated into IVAS.

The present technical report TR 26.997 (IVAS codec performance characterization) contains:

- Subjective and objective test results for the IVAS codec and the IVAS specific split rendering feature, incl.

- IVAS selection test results

- IVAS specific split rendering selection test results

- Additional information for characterization of the IVAS codec

**Changes since last presentation to SA Meeting:**

First presentation to SA plenary.

**Outstanding Issues:**

None.

**Contentious Issues:**

None.

Change history of this document:

1999-11-17: original issue

2007-09-06: removal of references to Working Groups; bring names of TSGs up to date; correction of typo

2015-01-06: adds tdoc header & removes redundant information below