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Encoder specification parametric stereo part
(3GPP TS 26.405 version 13.0.0 Release 13)**



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Foreword

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Foreword

The present document describes the detailed mapping of the general audio service employing the aacPlus general audio codec within the 3GPP system.

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 - 1 presented to TSG for information;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the specification;

1 Scope

This Telecommunication Standard (TS) describes the Parametric Stereo encoder part of the Enhanced aacPlus general audio codec [4].

2 Normative references

This TS incorporates by dated and undated reference, provisions from other publications. These normative references are cited in the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this TS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- [1] ISO/IEC 14496-3:2001/AMD1:2003: "Bandwidth Extension".
 - [2] ISO/IEC 14496-3:2001/Amd.1:2003/DCOR1.
 - [3] ISO/IEC 14496-3:2001/ Amd.2:2004: "Parametric Coding for High Quality Audio".
 - [4] 3GPP TS 26.401: "Enhanced aacPlus general audio codec; General Description:."
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3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of this TS, the following definitions apply:

hybrid QMF: a QMF filterbank combined with additional filters to achieve higher frequency resolution for the lower QMF bands

stereo band: a group of consecutive hybrid QMF subbands used for coding one stereo parameter

3.2 Symbols

For the purposes of this TS, the following symbols apply:

$l_k(n)$ Subsample in hybrid QMF matrix: left channel, band k , subsample n .

$r_k(n)$ Subsample in hybrid QMF matrix: right channel, band k , subsample n .

3.3 Abbreviations

For the purposes of this TS, the following abbreviations apply.

| | |
|------------------|--|
| SBR | Spectral Band Replication |
| AAC | Advanced Audio Coding |
| aacPlus | Combination of MPEG-4 AAC and MPEG-4 Bandwidth extension (SBR) |
| Enhanced aacPlus | Combination of MPEG-4 AAC, MPEG-4 Bandwidth extension (SBR) and MPEG-4 Parametric Stereo |
| QMF | Quadrature Mirror Filter |
| MPEG | Moving Picture Expert Group |
| IID | Inter Intensity Difference, (stereo parameter) |
| ICC | Inter Channel Coherence, (stereo parameter) |