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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 –
Part 6: Non-linear PCM bitstreams according to the MPEG-2 AAC and MPEG-4 AAC formats

Audionumérique – Interface pour les flux de bits audio à codage MIC non linéaire conformément à l'IEC 60958 –
Partie 6: Flux de bits MIC non linéaire selon les formats MPEG-2 AAC et MPEG-4 AAC

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FOREWORD

This amendment has been prepared by technical area 4: Digital system interfaces and protocols of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this amendment is based on the following documents:

CDV	Report on voting
100/2052/CDV	100/2117/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

• reconfirmed,

• withdrawn,

• replaced by a revised edition, or

• amended.

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INTRODUCTION to Amendment 1

The revision of IEC 61937-6:2006 has become necessary to define new additional data-type-dependent information. This Amendment 1 contains the following significant technical changes with respect to the base publication. The revised items apply to the small parts of IEC 61937-6.

– LC profile with MPEG Surround, LC profile with SBR and MPEG Surround in MPEG-2 AAC are defined data-type-dependent information field in Pc.

– HE-AAC V2 profile itself, and MPEG-4 AAC profile, HE-AAC profile, HE-AAC V2 profile combined with MPEG Surround respectively are defined data-type-dependent information field in Pc.

2   Normative references

Replace, in the list of normative references, the following standards by undated references

ISO/IEC 13818-7, *Information technology – Generic coding of moving pictures and associated audio information – Part 7: Advanced Audio Coding (AAC)*

ISO/IEC 14496-3, *Information technology – Coding of audio-visual objects – Part 3: Audio*

Add, at the end of the existing list of normative references the following new publication:

ISO/IEC 23003-1, *Information technology – MPEG audio technologies – Part 1: MPEG Surround*

3.1 Terms and definitions

Replace the existing terms and definitions 3.1.2, 3.1.3, 3.1.5 and 3.1.6 by the following:

3.1.2
MPEG-2 AAC LC profile
MPEG-2 AAC low complexity profile identified in ISO/IEC 13818-7

3.1.3
MPEG-2 AAC LC profile with SBR
MPEG-2 AAC low complexity profile with spectral band replication identified in ISO/IEC 13818-7

3.1.5
MPEG-4 AAC profile
MPEG-4 AAC profile identified in ISO/IEC 14496-3

3.1.6
MPEG-4 HE-AAC profile
MPEG-4 HE-AAC profile identified in ISO/IEC 14496-3

Add the new terms and definitions 3.1.7 and 3.1.8, as follows:

3.1.7
MPEG-4 HE-AAC V2 profile
MPEG-4 HE-AAC V2 profile identified in ISO/IEC 14496-3

3.1.8
MPEG Surround
technology used for coding of multichannel signals based on a down mixed signal of the original multichannel signal, and associated spatial parameters

Note 1 to entry: MPEG Surround in defined in ISO/IEC 23003-1.

3.2 Abbreviations

Replace the existing wording for abbreviation HE-AAC as follows:

HE-AAC   MPEG-4 High Efficiency AAC

Add the two new abbreviations, as follows:

HE-AAC V2   MPEG-4 High Efficiency AAC Version 2
MPEG   Moving Picture Experts Group

5.2.3   The data MPEG-2 AAC half-rate low sampling frequency

Replace the entire existing Table 7 by the following new Table 7:

**Table 7 – Data-type-dependent information for data-type
MPEG-2 AAC half-rate low sampling frequency**

Bits of Pc LSB..MSB	Value	Contents
8-12	00	No indication
	01	LC profile
	02	Reserved
	03	LC profile with MPEG Surround
	04	LC profile with SBR
	05,06	Reserved
	07	LC profile with SBR and MPEG Surround
	08-31	Reserved

5.2.5 The data MPEG-2 AAC quarter-rate low sampling frequency

Replace the entire existing Table 8 by the following new Table 8:

**Table 8 – Data-type-dependent information for data-type
MPEG-2 AAC quarter-rate low sampling frequency**

Bits of Pc LSB..MSB	Value	Contents
8-12	00	No indication
	01	LC profile
	02	Reserved
	03	LC profile with MPEG Surround
	04	LC profile with SBR
	05,06	Reserved
	07	LC profile with SBR and MPEG Surround
	08-31	Reserved

5.2.7 The data MPEG-4 AAC

Replace the entire existing Table 9 by the following new Table 9:

Table 9 – Data-type-dependent information for data-type MPEG-4 AAC

Bits of Pc LSB..MSB	Value	Contents
8-12	00	No indication
	01	AAC profile, format for transmission is ADTS
	02	Reserved
	03	AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	04	HE-AAC profile, format for transmission is ADTS
	05	Reserved
	06	HE-AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	07-11	Reserved
	12	HE-AAC V2 profile, format for transmission is ADTS.
	13	Reserved
	14	HE-AAC V2 profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile.
	15-31	Reserved

5.2.9 The data MPEG-4 AAC half-rate low sampling frequency

Replace the entire existing Table 10 by the following new Table 10:

Table 10 – Data-type-dependent information for data-type MPEG-4 AAC half-rate low sampling frequency

Bits of Pc LSB..MSB	Value	Contents
8-12	00	No indication
	01	AAC profile, format for transmission is ADTS
	02	Reserved
	03	AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	04	HE-AAC profile, format for transmission is ADTS
	05	Reserved
	06	HE-AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	07-11	Reserved
	12	HE-AAC V2 profile, format for transmission is ADTS
	13	Reserved
	14	HE-AAC V2 profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile.
	15-31	Reserved

5.2.11 The data MPEG-4 AAC quarter-rate low sampling frequency

Replace the entire existing Table 11 by the following new Table 11:

**Table 11 – Data-type-dependent information for data-type
MPEG-4 AAC quarter-rate low sampling frequency**

Bits of Pc LSB..MSB	Value	Contents
8-12	00	No indication
	01	AAC profile, format for transmission is ADTS
	02	Reserved for future profile
	03	AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	04	HE-AAC profile, format for transmission is ADTS
	05	Reserved
	06	HE-AAC profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile
	07-11	Reserved
	12	HE-AAC V2 profile, format for transmission is ADTS.
	13	Reserved
	14	HE-AAC V2 profile with MPEG Surround, format for transmission is ADTS, MPEG Surround data complies to MPEG Surround baseline profile.
	15-31	Reserved

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