



INTERNATIONAL STANDARD ISO/IEC 14496-3:1999/Amd.1:2000
TECHNICAL CORRIGENDUM 1

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Information technology — Coding of audio-visual objects —

Part 3: Audio

AMENDMENT 1: Audio extensions

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Codage des objets audiovisuels —

Partie 3: Codage audio

AMENDEMENT 1: Extensions audio

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to International Standard ISO/IEC 14496-3:1999/Amd.1:2000 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

ISO/IEC 14496-3:1999/Amd.1:2000/Cor.1:2001(E)

Throughout the text of ISO/IEC 14496-3:1999/Amd.1:2000, replace all occurrences of “AL PDU” with “SL packet” and all occurrences of “alPduPayload” with “slPacketPayload”.

In clause “Introduction”, add

”

“MPEG-4 has no standard for transport. In all of the MPEG-4 tools for audio and visual coding, the coding standard ends at the point of constructing a sequence of access units that contain the compressed data. The MPEG-4 Systems (ISO/IEC 14496-1:2001) specification describes how to convert the individually coded objects into a bitstream that contains a number of multiplexed sub-streams.

There is no standard mechanism for transport of this stream over a channel; this is because the broad range of applications that can make use of MPEG-4 technology have delivery requirements that are too wide to easily characterize with a single solution. Rather, what is standardized is an interface (the Delivery Multimedia Interface Format, or DMIF, specified in ISO/IEC 14496-6:1999) that describes the capabilities of a transport layer and the communication between transport, multiplex, and demultiplex functions in encoders and decoders. The use of DMIF and the MPEG-4 Systems bitstream specification allows transmission functions that are much more sophisticated than are possible with previous MPEG standards.

However, LATM and LOAS have been defined to provide a Low overhead Audio multiplex and transport mechanism for natural audio applications, which do not require sophisticated object-based coding or other functions provided by MPEG-4 Systems.

The following table gives an overview about the multiplex, storage and transmission formats for MPEG-4 Audio currently available within the MPEG-4 framework:

	Format	Functionality defined in:	Functionality redefined in:	Description
Multiplex	FlexMux	ISO/IEC 14496-1:2001 (MPEG-4 Systems) (Normative)		Flexible multiplex scheme
	LATM	ISO/IEC 14496-3/Amd 1:2000 (MPEG-4 Audio V2) (Normative)		Low Overhead Audio Transport Multiplex
Storage	ADIF	ISO/IEC 13818-7:1997 (MPEG-2 Audio) (Normative)	ISO/IEC 14496-3:1999 (MPEG-4 Audio V1) (Informative)	(MPEG-2 AAC) Audio Data Interchange Format, AAC only
	MP4FF	ISO/IEC 14496-1/Amd. 1:2000 (MPEG-4 Systems V2) (Normative)		MPEG-4 File format
Transmission	ADTS	ISO/IEC 13818-7:1997 (MPEG-2 Audio) (Normative, Exemplarily)	ISO/IEC 14496-3:1999 (MPEG-4 Audio V1) (Informative)	Audio Data Transport Stream, AAC only
	LOAS	ISO/IEC 14496-3/Amd. 1:2000 (MPEG-4 Audio V2) (Normative, Exemplarily)		Low Overhead Audio Stream, based on LATM, three versions are available: AudioSyncStream() EPAudioSyncStream() AudioPointerStream()

”

Note: This text is intended to replace the first bullet in subclause 1.1.2 (New concepts in MPEG-4 Audio) as stated in MPEG-4 Audio (ISO/IEC 14496-3:1999).

Replace the first row of Table 3 – Complexity of Audio Object Types in subclause 5.2.2 with

"

Object Type	Parameters	PCU (MOPS per channel)	RCU (kWords per channel)	Remarks
-------------	------------	------------------------	--------------------------	---------

"

In subclause 5.2.3, replace within table footnotes *1 below Table 4 (Levels for the High Quality Audio Profile), Table 5 (Levels for the Low Delay Audio Profile), Table 6 (Levels for the Natural Audio Profile) and Table 7 (Levels for the Mobile Audio Internetworking Profile)

"

..., which has the longest frame length, in each profile & level.

"

with

"

..., which has the longest maximum frame length, in each profile & level. For audio object types supporting variable frame lengths and arbitrary bitrates (i.e. any AAC audio object type) this does just extend the required decoder input buffer but does not affect the amount of redundancy actually applied.

"

In Table 8 (Syntax of AudioSpecificInfo()) in subclause 6.2.1, replace

"

<pre> epConfig; if (epConfig == 2) ErrorProtectionSpecificConfig(); </pre>	2	bslbf
---	---	-------

"

with

"

<pre> epConfig; if (epConfig == 2 epConfig == 3) { ErrorProtectionSpecificConfig(); } if (epConfig == 3) { directMapping; if (! directMapping) { /* tbd */ } } </pre>	2	uimsbf
<pre> </pre>	1	bslbf

"

In subclause 6.3.5, replace

"

This variable signals what kind of error robust configuration is used, i. e. how instances of error sensitivity categories are obtained on decoder site.

Table 10: epConfig

epConfig	Description
0	All instances of all sensitivity categories belonging to one frame are stored within one access unit.
1	Each instance of each sensitivity category belonging to one frame is stored separately within a single access unit, i.e. there are as many elementary streams existent as instances defined within a frame.
2	The error protection decoder has to be applied. Its input is an error protected access unit and its output are several error protection class instances. Each instance of each sensitivity category belonging to one frame corresponds to one of these error protection class instances.
3	Reserved

"
with
"

This data element signals what kind of error robust configuration is used.

Table 10: epConfig

epConfig	Description
0	All instances of all error sensitivity categories belonging to one frame are stored within one access unit. There exists one elementary stream per scalability layer, or just one elementary stream in case of non-scalable configurations.
1	Each instance of each sensitivity category belonging to one frame is stored separately within a single access unit, i.e. there exist as many elementary streams as instances defined within a frame.
2	The error protection decoder has to be applied. Its input are error protected access units. There exists one elementary stream per scalability layer, or just one elementary stream in case of non-scalable configurations. The output of the EP decoder is a set of several error protection classes. The concatenation of EP classes at the error protection decoder output is equivalent to epConfig=0 data.
3	The error protection decoder has to be applied. Its input are error protected access units. There exists one elementary stream per scalability layer, or just one elementary stream in case of non-scalable configurations. The output of the EP decoder is a set of several error protection classes. The concatenation of EP classes at the error protection decoder output is equivalent to epConfig=0 data. The mapping between EP classes and ESC instances is signaled by the data element directMapping.

"

After subclause 6.3.5, add

6.3.6 direct mapping

This data element identifies the mapping between error protection classes and error sensitivity category instances.

directMapping

directMapping	Description
0	Reserved
1	Each error protection class is treated as an instance of an error sensitivity category (one to one mapping), so that the error protection decoder output is equivalent to epConfig=1 data.

"

To the end of subclause 6.5.1, add

"

The mechanism defined in this subclause should not be used for transmission of TTSI object (12), Main Synthetic object (13), Wavetable Synthesis object (14), General MIDI object (15) and Algorithmic Synthesis and Audio FX object (16). For these object types, other multiplex and transport mechanisms might be used, e.g. those defined in MPEG-4 Systems.

"

To the description of *audioMuxElementStartPointer* in subclause 6.5.2.2, add

"

The maximum possible value of this field is reserved to signal that there is no start of an access unit in this sync frame.

"

Replace Table 17 (Syntax of *AudioMuxElement()*) in subclause 6.5.3.1 (Syntax) with

"

Syntax	No. of bits	Mnemonic
<pre> AudioMuxElement(muxConfigPresent) { if(muxConfigPresent) { useSameStreamMux; if (!useSameStreamMux) StreamMuxConfig(); } if (audioMuxVersion == 0) { for(i=0; i<=numSubFrames; i++) { PayloadLengthInfo(); PayloadMux(); } if(otherDataPresent) { for(i=0; i<otherDataLenBits; i++) { otherDataBit; } } } else { /* tbd */ } } </pre>	1	bslbf
	1	bslbf

"

<pre> } crcCheckPresent; if(crcCheckPresent) crcChecksum; } else { /* tbd */ } } </pre>	<p>1</p> <p>8</p>	<p>uimsbf</p> <p>uimsbf</p>
---	-------------------	-----------------------------

..

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Replace Table 19 (Syntax of PayloadLengthInfo()) in subclause 6.5.3.1 (Syntax) with

"

Syntax	No. of bits	Mnemonic
<pre> PayloadLengthInfo() { if(allStreamsSameTimeFraming) { for (prog = 0; prog <= numProgram; prog++) { for (lay = 0; lay <= numLayer; lay++) { if(frameLengthType[streamID[prog]][lay] == 0) { do { /* always one complete access unit */ tmp; MuxSlotLengthBytes[streamID[prog]][lay] += tmp; } while(tmp==255); } else { if (frameLengthType[streamID[prog]][lay] == 5 frameLengthType[streamID[prog]][lay] == 7 frameLengthType[streamID[prog]][lay] == 3) { MuxSlotLengthCoded[streamID[prog]][lay]; } } } } } } else { numChunk; for (chunkCnt=0; chunkCnt <= numChunk; chunkCnt++) { streamIdx; prog = progCIdx[chunkCnt] = progSIdx[streamIdx]; lay = layCIdx[chunkCnt] = laySIdx [streamIdx]; if(frameLengthType[streamID[prog]][lay] == 0) { do { /* not necessarily a complete access unit */ tmp; MuxSlotLengthBytes[streamID[prog]][lay] += tmp; } while (tmp == 255); AuEndFlag[streamID[prog]][lay]; } else { if (frameLengthType[streamID[prog]][lay] == 5 frameLengthType[streamID[prog]][lay] == 7 frameLengthType[streamID[prog]][lay] == 3) { MuxSlotLengthCoded[streamID[prog]][lay]; } } } } } </pre>	<p>8</p> <p>2</p> <p>4</p> <p>4</p> <p>8</p> <p>1</p> <p>2</p>	<p>uimsbf</p> <p>uimsbf</p> <p>uimsbf</p> <p>uimsbf</p> <p>bslbf</p> <p>uimsbf</p>

"

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Replace Table 20 (Syntax of PayloadMux()) in subclause 6.5.3.1 (Syntax) with

Syntax	No. of bits	Mnemonic
<pre> PayloadMux() { if(allStreamsSameTimeFraming) { for (prog = 0; prog <= numProgram; prog++) { for (lay = 0; lay <= numLayer; lay++) { payload [streamID[prog]][lay]; } } } else { for (chunkCnt=0; chunkCnt <= numChunk; chunkCnt++) { prog = progCIndx[chunkCnt]; lay = layCIndx [chunkCnt]; payload [streamID[prog]][lay]; } } } </pre>		

"

In subclause 6.5.3.2 (Semantics), add

"

audioMuxVersion: A data element to signal the bitstream syntax version. possible values: 0 (default), 1 (reserved for future extensions).

"

In subclause 6.5.3.2 (Semantics), replace

"

Note 1: There might be more than one instance of error sensitivity category 1 and 2 depending on the value of the variable **numSubFrames** defined in **StreamMuxConfig()**. Figure 3 shows an example for the order of the instances assuming numSubFrames is two (2).

"

with

"

Note 1: There might be more than one instance of error sensitivity category 1 and 2 depending on the value of the variable **numSubFrames** defined in **StreamMuxConfig()**. Figure 3 shows an example for the order of the instances assuming numSubFrames is one (1).

"

In subclause 6.5.3.2 (Semantics), replace

"

numSubFrames A field indicating how many PayloadMux() frames are multiplexed. If more than one PayloadMux() frame are multiplexed, all PayloadMux() share a common StreamMuxConfig(). The minimum value is

1.

numProgram A field indicating how many programs are multiplexed. The minimum value is 1.

numLayer A field indicating how many scalable layers are multiplexed. The minimum value is 1.

"

with
"

numSubFrames A field indicating how many PayloadMux() frames are multiplexed (numSubFrames+1). If more than one PayloadMux() frame are multiplexed, all PayloadMux() share a common StreamMuxConfig(). The minimum value is 0 indicating 1 subframe.

numProgram A field indicating how many programs are multiplexed (numProgram+1). The minimum value is 0 indicating 1 program.

numLayer A field indicating how many scalable layers are multiplexed (numLayer+1). The minimum value is 0 indicating 1 layer.

".

In subclause 6.5.3.2 (Semantics), replace

"

numChunk A field indicating the number of payload chunks. Each chunk may belong to an access unit with a different time base; only used if allStreamsSameTimeFraming is set to zero. The minimum value is 1.

"

with

"

numChunk A field indicating the number of payload chunks (numChunk+1). Each chunk may belong to an access unit with a different time base; only used if allStreamsSameTimeFraming is set to zero. The minimum value is 0 indicating 1 chunk.

".

In subclause 6.5.3.2 (Semantics), replace

"

otherDataLenBits A field indicating the length of the other data.

"

with

"

otherDataLenBits A helper variable indicating the length in bits of the other data.

otherDataLenEsc A field indicating whether there is more than one otherDataLenTmp data element following.

otherDataLenTmp A field used to calculate otherDataLenBits.

".

In subclause 6.5.3.2, replace

"

blockDelay A field indicating the time base of the payload with frameLengthType of 0. The time base is specified by a two-layer scheme. blockDelay provides a coarse time base in multiples of $tb1 = \text{frame_length_samples} / \text{sampling_rate}$. If enhanced time resolution is desired, fractionalDelay may specify an additional fractional value.

fractionalDelayPresent A flag indicating the presence of fractionalDelay in the current payload.

fractionalDelayPresent	Description
0	fractionalDelay is not present.
1	fractionalDelay is present.

fractionalDelay A field indicating the enhanced time resolution for the time base of the payload with `frameLengthType` of 0.

"

with

"

bufferFullness state of the bit reservoir. It is transmitted as the number of available bits in the bit reservoir divided by the number of audio channels divided by 32 and truncated to an integer value (mean number of 32 bit words per channel remaining in the encoder buffer after encoding the first audio frame in the `AudioMuxElement()`). A value of hexadecimal FF signals that the bitstream is a variable rate bitstream. In this case, `bufferFullness` is not applicable.

coreFrameOffset identifies the first CELP frame of the current super-frame. It is defined only in case of scalable configurations with CELP core and AAC enhancement layer(s) and transmitted with the first AAC enhancement layer. The value 0 identifies the first CELP frame following `StreamMuxConfig()` as the first CELP frame of the current super-frame. A value > 0 signals the number of CELP frames that the first CELP frame of the current super-frame is transmitted earlier in the bitstream.

Usage of LATM in case of scalable configurations with CELP core and AAC enhancement layer(s):

- Instances of the `AudioMuxElement()` are transmitted in equidistant manner.
- The represented timeframe of one `AudioMuxElement()` is similar to a multiple of a super-frame timeframe.
- The relative number of bits for a certain layer within any `AudioMuxElement()` compared to the total number of bits within this `AudioMuxElement()` is equal to the relative bitrate of that layer compared to the bitrate of all layers.
- In case of `coreFrameOffset=0` and `bufferFullness=0`, all core coder frames and all AAC frames of a certain super-frame are stored within the same instance of `AudioMuxElement()`.
- In case of `coreFrameOffset>0`, several or all core coder frames are stored within previous instances of `AudioMuxElement()`.
- Any core layer related configuration information refers to the core frames transmitted within the current instance of the `AudioMuxElement()`, independent of the value of `coreFrameOffset`.
- A specified `bufferFullness` is related to the first AAC frame of the first super-frame stored within the current `AudioMuxElement()`.
- The value of `bufferFullness` can be used to determine the location of the first bit of the first AAC frame of the current layer of the first super-frame stored within the current `AudioMuxElement()` by means of a backpointer:

$$\text{backPointer} = -\text{meanFrameLength} + \text{bufferFullness} + \text{currentFrameLength}$$
 The backpointer value specifies the location as a negative offset from the current `AudioMuxElement()`, i. e. it points backwards to the beginning of an AAC frame located in already received data. Any data not belonging to the payload of the current AAC layer is not taken into account. If `bufferFullness==0`, then the AAC frame starts after the current `AudioMuxElement()`.

"

In subclause 7.3.1, replace

"

Parametric Base Layer -- Configuration

For the parametric coder in unscalable mode or for the base layer in HILN scalable mode the following `ParametricSpecificConfig()` is required:

```
ParametricSpecificConfig() {
    PARAconfig();
}
```

Parametric HILN Enhancement / Extension Layer -- Configuration

To use HILN as core in an "T/F scalable with core" mode, in addition to the HILN base layer an HILN enhancement layer is required. In HILN bitrate scalable operation, in addition to the HILN base layer one or more HILN extension layers are permitted. Both the enhancement layer and the extension layer have the following ParametricSpecificConfig():

```
ParametricSpecificConfig() {
    HILNenexConfig();
}
```

"
with
"

Parametric Base Layer -- Configuration

The parametric coder in unscalable mode or the base layer in HILN scalable mode uses a ParametricSpecificConfig() with isBaseLayer==1.

Parametric HILN Enhancement / Extension Layer -- Configuration

To use HILN as core in a "T/F scalable with core" mode, in addition to the HILN base layer an HILN enhancement layer is required. In HILN bitrate scalable operation, in addition to the HILN base layer one or more HILN extension layers are permitted. Both the enhancement and extension layer use a ParametricSpecificConfig() with isBaseLayer==0.

```
ParametricSpecificConfig() {
    isBaseLayer; 1 bit uimsbf
    if ( isBaseLayer ) {
        PARAconfig();
    }
    else {
        HILNenexConfig();
    }
}
```

",
and at the end of subclause 7.3.1, add
"

isBaseLayer A one-bit identifier representing whether the corresponding layer is the base layer (1) or an enhancement or extension layer (0).

"

In subclause 7.3.2.3, replace
"

Table 72: LARH3 code (harmLAR[7..25])

"
with
"

Table 72: LARH3 code (harmLAR[7..24])

",

and replace

"

Table 74: LARN2 code (noiseLAR[2..25])

"

with

"

Table 74: LARN2 code (noiseLAR[2..24])

".

In Table 25 and in 7.4.1.1, replace " extensionFlag " with " PARAextensionFlag ".

In subclause in 7.5.1.4.3, add

"

If the speed is controlled by the time scaling factor in the **speed** field of the AudioSource BIFS node, the speed change factor is:

speedFactor = 1 / speed;

If the pitch is controlled by the **pitch** field of the AudioSource BIFS node, the pitch change factor is:

pitchFactor = pitch;

"

after

"

If playback at the original speed and pitch is desired, the corresponding control factors are set to their default values:

speedFactor = 1.0;

pitchFactor = 1.0;

".

Replace Table 80 in subclause 8.2.1 with

"

Table 80: Syntax of GASpecificConfig()

Syntax	No. of bits	Mnemonic
GASpecificConfig (samplingFrequencyIndex, channelConfiguration, audioObjectType)		
{		
frameLengthFlag;	1	bslbf
dependsOnCoreCoder;	1	bslbf
if (dependsOnCoreCoder) {		
coreCoderDelay;	14	uimsbf
}		
extensionFlag;	1	bslbf
if (! channelConfiguration) {		
program_config_element ();		
}		
if ((audioObjectType == 6) (audioObjectType == 20)) {		
layerNr;	3	uimsbf
}		
if (extensionFlag) {		
if (audioObjectType == 22) {		
numOfSubFrame;	5	bslbf
layer_length;	11	bslbf
}		
if (audioObjectType == 17 audioObjectType == 18 audioObjectType == 19 audioObjectType == 20 audioObjectType == 21 audioObjectType == 23) {		
aacSectionDataResilienceFlag;	1	bslbf
aacScalefactorDataResilienceFlag;	1	bslbf
aacSpectralDataResilienceFlag;	1	bslbf
}		
extensionFlag3;	1	bslbf
if (extensionFlag3) {		
/* tbd in version 3 */		
}		
}		
}		

"

Important notice: This correction also affects ISO/IEC 14496-3:1999.

To subclause 8.2.2 (Semantics), add

"

layerNr. A 3-bit field indicating the AAC layer number in a scalable configuration. The first AAC layer is signaled by a value of 0.

To subclause 8.2.2 (Semantics), add

"

ExtensionFlag3: Shall be '0'.

"

In subclause 8.5.3.1.2, replace

"

If the `aacSectionDataResilienceFlag` is set, `sect_len` is not transmitted but is set to one per default in case the codebook for a section is 11 or in the range of 16 and 31.

"

with

"

If the `aacSectionDataResilienceFlag` is set, `sect_len_incr` is not transmitted but is set to one per default in case the codebook for a section is 11 or in the range of 16 and 31.

".

In subclause 8.5.3.2.2, replace

"

sf_concealment is a data field that signals whether the scalefactors of the last frame are similar to the current ones or not. The length of this data field is 1 bit.

"

with

"

sf_concealment: is a data field that indicates the similarity between scale factors of the last frame and those of the current one. It shall be set to '0', if the scale factors of the last frame are dissimilar to those of the current frame. It shall set to '1', if they are similar.

Note: This data field is not required to decode error-free payload, but might be used to apply appropriate concealment strategies in case of corrupted scale factor data. No similarity criterion is specified since concealment is out of the scope of this standard.

".

In subclause 8.5.3.3.1, replace

"

For explanation of the pre-sorting steps the term "unit" is introduced. A unit covers four spectral lines, i. e. two two-dimensional codewords or one four-dimensional codeword.

"

with

"

For explanation of the pre-sorting steps the term "unit" is introduced. A unit covers four spectral lines, i. e. two two-dimensional codewords or one four-dimensional codeword. In case of two two-dimensional codewords their natural order is kept, i. e. the higher frequency codeword follows the lower frequency codeword.

".

In subclause 8.5.3.3.1, replace the definition

"

`codebookPriority[32] = {x,0,0,1,1,2,2,3,3,4,4,21,x,x,x,x,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20}`

"

with

"
codebookPriority[32] = {x,21,21,20,20,19,19,18,18,17,17,0,x,x,x,x,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1}
".

In subclause 9.1, delete

"
The stream type ERROR_PROTECTION_STREAM is defined. This stream consists of error protection frames.
".

And in subclause 9.2.2, replace

"
This part defines the syntax of the stream type ERROR_PROTECTION_STREAM which consists of error protection frames. Note that this stream is common for all algorithms. In case this stream is transported by 14496-1 Systems, one rs_ep_frame() is mapped to one access unit.
".

with
"
This part defines the syntax of the error protected audio bitstream payload. This kind of syntax can be selected by setting epConfig = 2. It is common for all audio object types. If MPEG-4 Systems is used, one rs_ep_frame() is directly mapped to one access unit.
".

In the Table 163: Syntax of ErrorProtectionSpecificConfig() in subclause 9.2.1, replace

"

class_rate[i][j]	5	uimsbf
-------------------------	----------	---------------

"

with

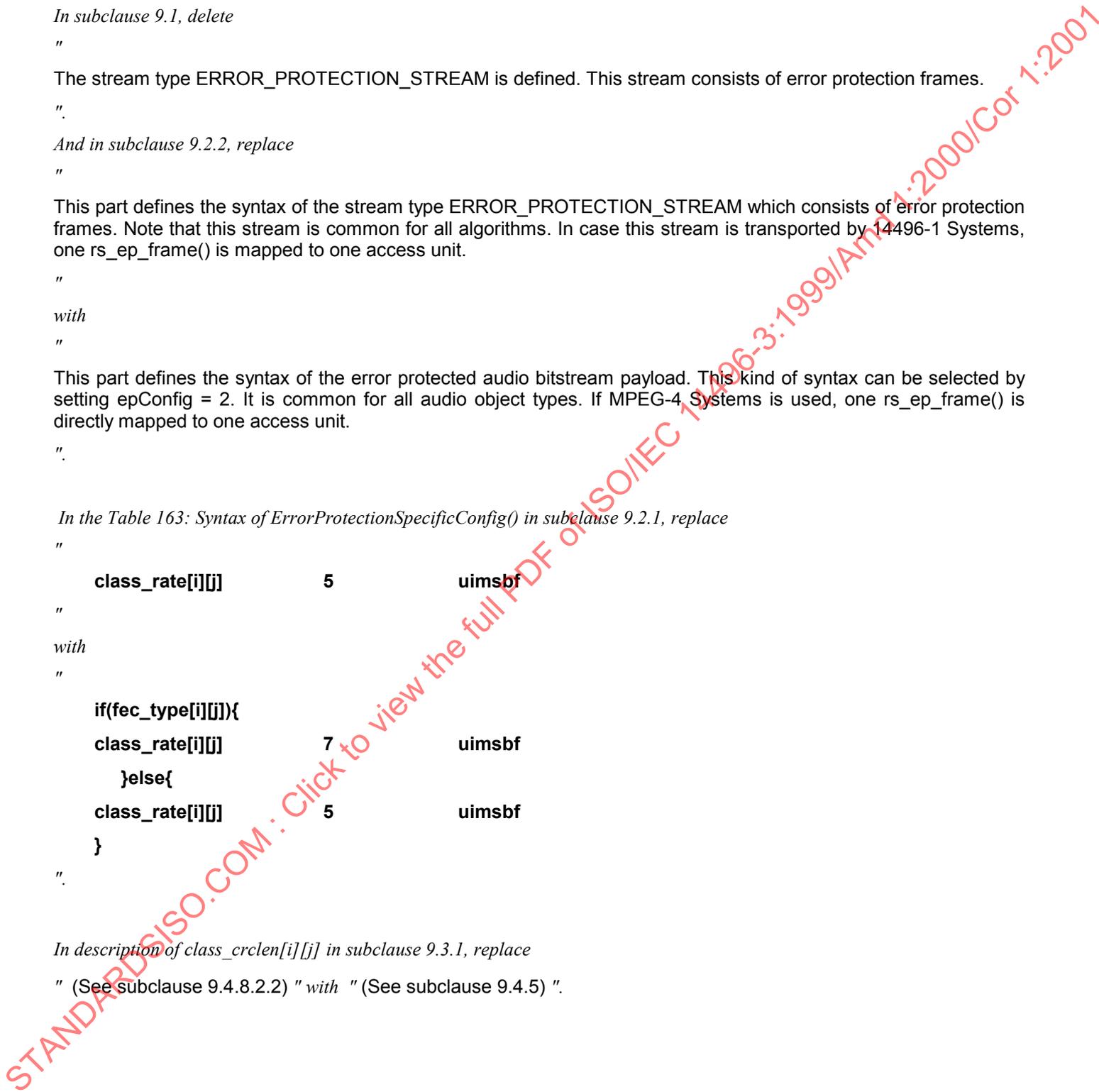
"

if(fec_type[i][j]){		
class_rate[i][j]	7	uimsbf
 }else{		
class_rate[i][j]	5	uimsbf
 }		

"

In description of class_crclen[i][j] in subclause 9.3.1, replace

" (See subclause 9.4.8.2.2) " *with* " (See subclause 9.4.5) " .



In subclause 10.3.1.1, replace

"

Table 196: Syntax of ErHVXCfixframe ()

Syntax	No. of bits	Mnemonic
<pre> ErHVXCfixframe(rate) { if(rate == 2000){ 2k_ESC0(); if(VUV!=0){ 2kV_ESC1(); 2kV_ESC2(); 2kV_ESC3(); 2kV_ESC4(); } else{ 2kUV_ESC1(); 2kUV_ESC2(); 2kUV_ESC3(); } } else if (rate >= 3700){ 4k_ESC0(); if(VUV!=0){ 4kV_ESC1(rate); 4kV_ESC2(rate); 4kV_ESC3(); 4kV_ESC4(); } else{ 4kUV_ESC1(rate); 4kUV_ESC2(rate); } } } </pre>		

"

with

"

Table 196: Syntax of ErHVXCfixframe()

Syntax	No. of bits	Mnemonic
ErHVXCfixframe(rate) { if (rate == 2000) { 2k_ESC0(); 2k_ESC1(); 2k_ESC2(); 2k_ESC3(); } else if (rate >= 3700) { 4k_ESC0(rate); 4k_ESC1(rate); 4k_ESC2(); 4k_ESC3(); 4k_ESC4(rate); } }		

"

In subclauses 10.3.1.1.1-10.3.1.1.3, replace

"

Table 197: Syntax of 2k_ESC0()

Syntax	No. of bits	Mnemonic
2k_ESC0() { VUV, 1-0; }	2	uimsbf

Table 198: Syntax of 2kV_ESC1()

Syntax	No. of bits	Mnemonic
2kV_ESC1() { LSP4, 0; SE_gain, 4-0; LSP1, 4-0; Pitch, 6-1; LSP2, 6; }	1 5 5 6 1	uimsbf uimsbf uimsbf uimsbf uimsbf

Table 199: Syntax of 2kV_ESC2()

Syntax	No. of bits	Mnemonic
2kV_ESC2() { LSP3, 4; LSP2, 5; }	1 1	uimsbf uimsbf

Table 200: Syntax of 2kV_ESC3()

Syntax	No. of bits	Mnemonic
2kV_ESC3() { SE_shape1, 3-0; SE_shape2, 3-0; }	4 4	uimsbf uimsbf

Table 201: Syntax of 2kV_ESC4()

Syntax	No. of bits	Mnemonic
2kV_ESC4() { LSP2, 4-0; LSP3, 3-0; Pitch, 0; }	5 4 1	uimsbf uimsbf uimsbf

Table 202: Syntax of 2kUV_ESC1()

Syntax	No. of bits	Mnemonic
2kUV_ESC1() { LSP4, 0; VX_gain1[0], 3-0; VX_gain1[1], 3-0; LSP1, 4-0; LSP2, 6-3; }	1 4 4 5 4	uimsbf uimsbf uimsbf uimsbf uimsbf

Table 203: Syntax of 2kUV_ESC2()

Syntax	No. of bits	Mnemonic
2kUV_ESC2() { LSP3, 4-3; }	2	uimsbf

Table 204: Syntax of 2kUV_ESC3()

Syntax	No. of bits	Mnemonic
2kUV_ESC3() { LSP2, 2-0; LSP3, 2-0; VX_shape1[0], 5-0; VX_shape1[1], 5-0; }	3 3 6 6	uimsbf uimsbf uimsbf uimsbf

"
with

"

Table 197: Syntax of 2k_ESC0()

Syntax	No. of bits	Mnemonic
2k_ESC0() {		
VUV , 1-0;	2	uimsbf
if (VUV!=0) {		
LSP4 , 0;	1	uimsbf
SE_gain , 4-0;	5	uimsbf
LSP1 , 4-0;	5	uimsbf
Pitch , 6-1;	6	uimsbf
LSP2 , 6;	1	uimsbf
LSP3 , 4;	1	uimsbf
LSP2 , 5;	1	uimsbf
}		
else {		
LSP4 , 0;	1	uimsbf
VX_gain1[0] , 3-0;	4	uimsbf
VX_gain1[1] , 3-0;	4	uimsbf
LSP1 , 4-0;	5	uimsbf
LSP2 , 6-3;	4	uimsbf
LSP3 , 4-3;	2	uimsbf
}		
}		

Table 198: Syntax of 2k_ESC1()

Syntax	No. of bits	Mnemonic
2k_ESC1() {		
if (VUV!=0) {		
SE_shape1 , 3-0;	4	uimsbf
}		
else {		
LSP2 , 2-0;	3	uimsbf
LSP3 , 2;	1	uimsbf
}		
}		

Table 199: Syntax of 2k_ESC2()

Syntax	No. of bits	Mnemonic
2k_ESC2() {		
if (VUV!=0) {		
SE_shape2 , 3-0;	4	uimsbf
}		
else {		
LSP3 , 1-0;	2	uimsbf
VX_shape1[0] , 5-4;	2	uimsbf
}		
}		

Table 200: Syntax of 2k_ESC3()

Syntax	No. of bits	Mnemonic
2k_ESC3() { if (VUV!=0) { LSP2, 4-0; LSP3, 3-0; Pitch, 0; } else { VX_shape1[0], 3-0; VX_shape1[1], 5-0; } }	5 4 1 4 6	uimsbf uimsbf uimsbf uimsbf uimsbf

"

In subclauses 10.3.1.1.4-10.3.1.1.6, replace

"

Table 205: Syntax of 4k_ESC0()

Syntax	No. of bits	Mnemonic
4k_ESC0() { VUV, 1-0; }	2	uimsbf

Table 206: Syntax of 4kV_ESC1()

Syntax	No. of bits	Mnemonic
4kV_ESC1(rate) { LSP4, 0; SE_gain, 4-0; LSP1, 4-0; Pitch, 6-1; LSP2, 6-3; SE_shape3, 6-2; LSP3, 4; LSP5, 7; SE_shape4, 9; SE_shape5, 8; if(rate>=4000){ SE_shape6, 5; } }	1 5 5 6 4 5 1 1 1 1 1	uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf uimsbf

Table 207: Syntax of 4kV_ESC2()

Syntax	No. of bits	Mnemonic
4kV_ESC2(rate)		
{		
SE_shape4, 8-0;	9	uimsbf
SE_shape5, 7-0;	8	uimsbf
if(rate>=4000){		
SE_shape6, 4-0;	5	uimsbf
}		
}		

Table 208: Syntax of 4kV_ESC3()

Syntax	No. of bits	Mnemonic
4kV_ESC3()		
{		
SE_shape1, 3-0;	4	uimsbf
SE_shape2, 3-0;	4	uimsbf
}		

Table 209: Syntax of 4kV_ESC4()

Syntax	No. of bits	Mnemonic
4kV_ESC4()		
{		
LSP2, 2-0;	3	uimsbf
LSP3, 3-0;	4	uimsbf
LSP5, 6-0;	7	uimsbf
Pitch, 0;	1	uimsbf
SE_shape3, 1-0;	2	uimsbf
}		

Table 210: Syntax of 4kUV_ESC1()

Syntax	No. of bits	Mnemonic
4kUV_ESC1(rate)		
{		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
LSP3, 4;	1	uimsbf
LSP5, 7;	1	uimsbf
VX_gain2[0], 2-0;	3	uimsbf
VX_gain2[1], 2-0;	3	uimsbf
VX_gain2[2], 2-0;	3	uimsbf
if(rate>=4000){		
VX_gain2[3], 2-0;	3	uimsbf
}		
}		

Table 211: Syntax of 4kUV_ESC2()

Syntax	No. of bits	Mnemonic
4kUV_ESC2(rate)		
{		
LSP2, 2-0;	3	uimsbf
LSP3, 3-0;	4	uimsbf
LSP5, 6-0;	7	uimsbf
VX_shape1[0], 5-0;	6	uimsbf
VX_shape1[1], 5-0;	6	uimsbf
VX_shape2[0], 4-0;	5	uimsbf
VX_shape2[1], 4-0;	5	uimsbf
VX_shape2[2], 4-0;	5	uimsbf
if(rate>=4000){		
VX_shape2[3], 4-0;	5	uimsbf
}		
}		

"
with
"

Table 201: Syntax of 4k_ESC0()

Syntax	No. of bits	Mnemonic
4k_ESC0()		
{		
VUV, 1-0;	2	uimsbf
if (VUV!=0) {		
LSP4, 0;	1	uimsbf
SE_gain, 4-0;	5	uimsbf
LSP1, 4-0;	5	uimsbf
Pitch, 6-1;	6	uimsbf
LSP2, 6-3;	4	uimsbf
SE_shape3, 6-2;	5	uimsbf
LSP3, 4;	1	uimsbf
LSP5, 7;	1	uimsbf
SE_shape4, 9;	1	uimsbf
SE_shape5, 8;	1	uimsbf
if (rate>=4000) {		
SE_shape6, 5;	1	uimsbf
}		
}		
else {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
LSP3, 4;	1	uimsbf
LSP5, 7;	1	uimsbf
VX_gain2[0], 2-0;	3	uimsbf
VX_gain2[1], 2-0;	3	uimsbf
VX_gain2[2], 2-0;	3	uimsbf
if (rate>=4000) {		
VX_gain2[3], 2-1;	2	uimsbf
}		
}		
}		

Table 202: Syntax of 4k_ESC1()

Syntax	No. of bits	Mnemonic
4k_ESC1(rate)		
{		
if (VUV!=0) {		
SE_shape4, 8-0;	9	uimsbf
SE_shape5, 7-0;	8	uimsbf
if (rate>=4000) {		
SE_shape6, 4-0;	5	uimsbf
}		
}		
else {		
if (rate>=4000) {		
VX_gain2[3], 0;	1	uimsbf
}		
LSP2, 2-0;	3	uimsbf
LSP3, 3-0;	4	uimsbf
LSP5, 6-0;	7	uimsbf
VX_shape1[0], 5-0;	6	uimsbf
VX_shape1[1], 5;	1	uimsbf
}		
}		

Table 203: Syntax of 4k_ESC2()

Syntax	No. of bits	Mnemonic
4k_ESC2()		
{		
if (VUV!=0) {		
SE_shape1, 3-0;	4	uimsbf
}		
else {		
VX_shape1[1], 4-1;	4	uimsbf
}		
}		

Table 204: Syntax of 4k_ESC3()

Syntax	No. of bits	Mnemonic
4k_ESC3()		
{		
if (VUV!=0) {		
SE_shape2, 3-0;	4	uimsbf
}		
else {		
VX_shape1[1], 0;	1	uimsbf
VX_shape2[0], 4-2;	3	uimsbf
}		
}		

Table 205: Syntax of 4k_ESC4()

Syntax	No. of bits	Mnemonic
4k_ESC4(rate)		
{		
if (VUV!=0) {		
LSP2, 2-0;	3	uimsbf
LSP3, 3-0;	4	uimsbf
LSP5, 6-0;	7	uimsbf
Pitch, 0;	1	uimsbf
SE_shape3, 1-0;	2	uimsbf
}		
else {		
VX_shape2[0], 1-0;	2	uimsbf
VX_shape2[1], 4-0;	5	uimsbf
VX_shape2[2], 4-0;	5	uimsbf
if (rate>=4000) {		
VX_shape2[3], 4-0;	5	uimsbf
}		
}		
}		

"

in subclause 10.3.1.2, replace

"

Table 212: Syntax of ErHVXCenh_fixframe()

Syntax	No. of bits	Mnemonic
ErHVXCenh_fixframe()		
{		
if(VUV!=0){		
EnhV_ESC1();		
EnhV_ESC2();		
EnhV_ESC3();		
}		
else{		
EnhUV_ESC1();		
EnhUV_ESC2();		
}		
}		

"

with

"

Table 206: Syntax of ErHVXCenh_fixframe()

Syntax	No. of bits	Mnemonic
ErHVXCenh_fixframe()		
{		
Enh_ESC0();		
Enh_ESC1();		
Enh_ESC2();		
}		

"

In subclauses 10.3.1.2.1 and 10.3.1.2.2, replace

"

Table 213: Syntax of EnhV_ESC1()

Syntax	No. of bits	Mnemonic
EnhV_ESC1() {		
SE_shape3, 6-2;	5	uimsbf
LSP5, 7;	1	uimsbf
SE_shape4, 9;	1	uimsbf
SE_shape5, 8;	1	uimsbf
SE_shape6, 5;	1	uimsbf
}		

Table 214: Syntax of EnhV_ESC2()

Syntax	No. of bits	Mnemonic
EnhV_ESC2() {		
SE_shape4, 8-0;	9	uimsbf
SE_shape5, 7-0;	8	uimsbf
SE_shape6, 4-0;	5	uimsbf
}		

Table 215: Syntax of EnhV_ESC3()

Syntax	No. of bits	Mnemonic
EnhV_ESC3() {		
LSP5, 6-0;	7	uimsbf
SE_shape3, 1-0;	2	uimsbf
}		

Table 216: Syntax of EnhUV_ESC1()

Syntax	No. of bits	Mnemonic
EnhUV_ESC1() {		
LSP5, 7;	1	uimsbf
VX_gain2[0], 2-0;	3	uimsbf
VX_gain2[1], 2-0;	3	uimsbf
VX_gain2[2], 2-0;	3	uimsbf
VX_gain2[3], 2-0;	3	uimsbf
}		

Table 217: Syntax of EnhUV_ESC2()

Syntax	No. of bits	Mnemonic
EnhUV_ESC2() {		
LSP5, 6-0;	7	uimsbf
VX_shape2[0], 4-0;	5	uimsbf
VX_shape2[1], 4-0;	5	uimsbf
VX_shape2[2], 4-0;	5	uimsbf
VX_shape2[3], 4-0;	5	uimsbf
}		

"
with
"

Table 207: Syntax of Enh_ESC0()

Syntax	No. of bits	Mnemonic
Enh_ESC0() {		
if (VUV!=0) {		
SE_shape3, 6-2;	5	uimsbf
LSP5, 7;	1	uimsbf
SE_shape4, 9;	1	uimsbf
SE_shape5, 8;	1	uimsbf
SE_shape6, 5;	1	uimsbf
SE_shape4, 8-6;	3	uimsbf
}		
else {		
LSP5, 7;	1	uimsbf
VX_gain2[0], 2-0;	3	uimsbf
VX_gain2[1], 2-0;	3	uimsbf
VX_gain2[2], 2-0;	3	uimsbf
VX_gain2[3], 2-1;	2	uimsbf
}		
}		

Table 208: Syntax of Enh_ESC1()

Syntax	No. of bits	Mnemonic
Enh_ESC1() {		
if (VUV!=0) {		
SE_shape4, 5-0;	6	uimsbf
SE_shape5, 7-0;	8	uimsbf
SE_shape6, 4-0;	5	uimsbf
}		
else {		
VX_gain2[3], 0;	1	uimsbf
LSP5, 6-0;	7	uimsbf
VX_shape2[0], 4-0;	5	uimsbf
VX_shape2[1], 4-0;	5	uimsbf
VX_shape2[2], 4;	1	uimsbf
}		
}		

Table 209: Syntax of Enh_ESC2()

Syntax	No. of bits	Mnemonic
Enh_ESC2() { if (VUV!=0) { LSP5, 6-0; SE_shape3, 1-0; } else { VX_shape2[2], 3-0; VX_shape2[3], 4-0; } }	 7 2 4 5	 uimsbf uimsbf uimsbf uimsbf

”

In subclause 10.3.1.3, replace

”

Table 218: Syntax of ErHVXCvarframe()

Syntax	No. of bits	Mnemonic
ErHVXCvarframe(rate) { if (rate == 2000) { if (var_ScalableFlag == 1) { BaseVar_ESC0() if (VUV==2 VUV==3) { BaseVarV_ESC1(); BaseVarV_ESC2(); BaseVarV_ESC3(); BaseVarV_ESC4(); } else if (VUV == 0) { BaseVarUV_ESC1(); BaseVarUV_ESC2(); BaseVarUV_ESC3(); } else { BaseVarBGN_ESC1(); if (UpdateFlag == 1) { BaseVarBGN_ESC2(); BaseVarBGN_ESC3(); } } } else { Var2k_ESC0(); if (VUV!=1) { if (VUV!=0) { Var2kV_ESC1(); Var2kV_ESC2(); Var2kV_ESC3(); Var2kV_ESC4(); } else { Var2kUV_ESC1(); Var2kUV_ESC2(); Var2kUV_ESC3(); } } } else { 		

```

        Var2kBGN_ESC1();
    }
}
} else {
    Var4k_ESC0();
    if (VUV==2 || VUV==3) {
        Var4kV_ESC1();
        Var4kV_ESC2();
        Var4kV_ESC3();
        Var4kV_ESC4();
    } else if (VUV==0) {
        Var4kUV_ESC1();
        Var4kUV_ESC2();
        Var4kUV_ESC3();
    } else {
        Var4kBGN_ESC1();
        if (UpdateFlag == 1) {
            Var4kBGN_ESC2();
            Var4kBGN_ESC3();
        }
    }
}
}
}
}

```

"
with
"

Table 210: Syntax of ErHVXCvarframe()

Syntax	No. of bits	Mnemonic
<pre> ErHVXCvarframe(rate) { if (rate == 2000) { if(var_ScalableFlag == 1) { BaseVar_ESC0(); BaseVar_ESC1(); BaseVar_ESC2(); BaseVar_ESC3(); } else { Var2k_ESC0(); Var2k_ESC1(); Var2k_ESC2(); Var2k_ESC3(); } } else { Var4k_ESC0(); Var4k_ESC1(); Var4k_ESC2(); Var4k_ESC3(); Var4k_ESC4(); } } </pre>		

"

In subclauses 10.3.1.3, 10.3.1.3.1 and 10.3.1.3.2, replace

"

Table 219: Syntax of Var2k_ESC0()

Syntax	No. of bits	Mnemonic
Var2k_ESC0() { VUV , 1-0; }	2	uimsbf

Table 220: Syntax of Var2kV_ESC1()

Syntax	No. of bits	Mnemonic
Var2kV_ESC1() { LSP4, 0; SE_gain, 4-0; LSP1, 4-0; Pitch, 6-1; LSP2, 6; }	1 5 5 6 1	uimsbf uimsbf uimsbf uimsbf uimsbf

Table 221: Syntax of Var2kV_ESC2()

Syntax	No. of bits	Mnemonic
Var2kV_ESC2() { LSP3, 4; LSP2, 5; }	1 1	uimsbf uimsbf

Table 222: Syntax of Var2kV_ESC3()

Syntax	No. of bits	Mnemonic
Var2kV_ESC3() { SE_shape1, 3-0; SE_shape2, 3-0; }	4 4	uimsbf uimsbf

Table 223: Syntax of Var2kV_ESC4()

Syntax	No. of bits	Mnemonic
Var2kV_ESC4() { LSP2, 4-0; LSP3, 3-0; Pitch, 0; }	5 4 1	uimsbf uimsbf uimsbf

Table 224: Syntax of Var2kUV_ESC1()

Syntax	No. of bits	Mnemonic
Var2kUV_ESC1() {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
}		

Table 225: Syntax of Var2kUV_ESC2()

Syntax	No. of bits	Mnemonic
Var2kUV_ESC2() {		
LSP3, 4-3;	2	uimsbf
}		

Table 226: Syntax of Var2kUV_ESC3()

Syntax	No. of bits	Mnemonic
Var2kUV_ESC3() {		
LSP2, 2-0;	3	uimsbf
LSP3, 2-0;	3	uimsbf
}		

Table 227: Syntax of Var2kBGN_ESC1()

Syntax	No. of bits	Mnemonic
Var2kBGN_ESC1() {		
}		

"
with
"

Table 211: Syntax of Var2k_ESC0()

Syntax	No. of bits	Mnemonic
Var2k_ESC0()		
{		
VUV, 1-0;	2	uimsbf
if (VUV==2 VUV==3) {		
LSP4, 0;	1	uimsbf
SE_gain, 4-0;	5	uimsbf
LSP1, 4-0;	5	uimsbf
Pitch, 6-1;	6	uimsbf
LSP2, 6;	1	uimsbf
LSP3, 4;	1	uimsbf
LSP2, 5;	1	uimsbf
}		
else if (VUV==0) {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
LSP3, 4-3;	2	uimsbf
}		
}		

Table 212: Syntax of Var2k_ESC1()

Syntax	No. of bits	Mnemonic
Var2k_ESC1()		
{		
if (VUV==2 VUV==3) {		
SE_shape1, 3-0;	4	uimsbf
}		
else if (VUV==0) {		
LSP2, 2-0;	3	uimsbf
LSP3, 2;	1	uimsbf
}		
}		

Table 213: Syntax of Var2k_ESC2()

Syntax	No. of bits	Mnemonic
Var2k_ESC2()		
{		
if (VUV==2 VUV==3) {		
SE_shape2, 3-0;	4	uimsbf
}		
else if (VUV==0) {		
LSP3, 1-0;	2	uimsbf
}		
}		

Table 231: Syntax of Var4kV_ESC3()

Syntax	No. of bits	Mnemonic
Var4kV_ESC3() { SE_shape1, 3-0; SE_shape2, 3-0; }	 4 4	 uimsbf uimsbf

Table 232: Syntax of Var4kV_ESC4()

Syntax	No. of bits	Mnemonic
Var4kV_ESC4() { LSP2, 2-0; LSP3, 3-0; LSP5, 6-0; Pitch, 0; SE_shape3, 1-0; }	 3 4 7 1 2	 uimsbf uimsbf uimsbf uimsbf uimsbf

Table 233: Syntax of Var4kUV_ESC1()

Syntax	No. of bits	Mnemonic
Var4kUV_ESC1() { LSP4, 0; VX_gain1[0], 3-0; VX_gain1[1], 3-0; LSP1, 4-0; LSP2, 6-3; }	 1 4 4 5 4	 uimsbf uimsbf uimsbf uimsbf uimsbf

Table 234: Syntax of Var4kUV_ESC2()

Syntax	No. of bits	Mnemonic
Var4kUV_ESC2() { LSP3, 4-3; }	 2	 uimsbf

Table 235: Syntax of Var4kUV_ESC3()

Syntax	No. of bits	Mnemonic
Var4kUV_ESC3() { LSP2, 2-0; LSP3, 2-0; VX_shape1[0], 5-0; VX_shape1[1], 5-0; }	 3 3 6 6	 uimsbf uimsbf uimsbf uimsbf

Table 236: Syntax of Var4kBGN_ESC1()

Syntax	No. of bits	Mnemonic
Var4kBGN_ESC1() { UpdateFlag, 0; }	1	uimsbf

Table 237: Syntax of Var4kBGN_ESC2()

Syntax	No. of bits	Mnemonic
Var4kBGN_ESC2() { LSP4, 0; VX_gain1[0], 3-0; LSP1, 4-0; LSP2, 6-3; }	1 4 5 4	uimsbf uimsbf uimsbf uimsbf

Table 238: Syntax of Var4kBGN_ESC3()

Syntax	No. of bits	Mnemonic
Var4kBGN_ESC3() { LSP3, 4-3; LSP2, 2-0; LSP3, 2-0; }	2 3 3	uimsbf uimsbf uimsbf

"
with
"

Table 215: Syntax of Var4k_ESC0()

Syntax	No. of bits	Mnemonic
Var4k_ESC0()		
{		
VUV, 1-0;	2	uimsbf
if (VUV==2 VUV==3) {		
LSP4, 0;	1	uimsbf
SE_gain, 4-0;	5	uimsbf
LSP1, 4-0;	5	uimsbf
Pitch, 6-1;	6	uimsbf
LSP2, 6-3;	4	uimsbf
SE_shape3, 6-2;	5	uimsbf
LSP3, 4;	1	uimsbf
LSP5, 7;	1	uimsbf
SE_shape4, 9;	1	uimsbf
SE_shape5, 8;	1	uimsbf
SE_shape6, 5;	1	uimsbf
}		
else if (VUV==0) {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
LSP3, 4-3;	2	uimsbf
}		
else {		
UpdateFlag, 0;	1	uimsbf
if (UpdateFlag==1) {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
LSP3, 4-3;	2	uimsbf
}		
}		
}		

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In subclauses 10.3.1.3.6 - 10.3.1.3.9, replace

"

Table 239: Syntax of BaseVar_ESC0()

Syntax	No. of bits	Mnemonic
BaseVar_ESC0() { VUV, 1-0; }	2	uimsbf

Table 240: Syntax of BaseVarV_ESC1()

Syntax	No. of bits	Mnemonic
BaseVarV_ESC1() { LSP4, 0; SE_gain, 4-0; LSP1, 4-0; Pitch, 6-1; LSP2, 6; }	1 5 5 6 1	uimsbf uimsbf uimsbf uimsbf uimsbf

Table 241: Syntax of BaseVarV_ESC2()

Syntax	No. of bits	Mnemonic
BaseVarV_ESC2() { LSP3, 4; LSP2, 5; }	1 1	uimsbf uimsbf

Table 242: Syntax of BaseVarV_ESC3()

Syntax	No. of bits	Mnemonic
BaseVarV_ESC3() { SE_shape1, 3-0; SE_shape2, 3-0; }	4 4	uimsbf uimsbf

Table 243: Syntax of BaseVarV_ESC4()

Syntax	No. of bits	Mnemonic
BaseVarV_ESC4() { LSP2, 4-0; LSP3, 3-0; Pitch, 0; }	5 4 1	uimsbf uimsbf uimsbf

Table 244: Syntax of BaseVarUV_ESC1()

Syntax	No. of bits	Mnemonic
BaseVarUV_ESC1() {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
VX_gain1[1], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
}		

Table 245: Syntax of BaseVarUV_ESC2()

Syntax	No. of bits	Mnemonic
BaseVarUV_ESC2() {		
LSP3, 4-3;	2	uimsbf
}		

Table 246: Syntax of BaseVarUV_ESC3()

Syntax	No. of bits	Mnemonic
BaseVarUV_ESC3() {		
LSP2, 2-0;	3	uimsbf
LSP3, 2-0;	3	uimsbf
VX_shape1[0], 5-0;	6	uimsbf
VX_shape1[1], 5-0;	6	uimsbf
}		

Table 247: Syntax of BaseVarBGN_ESC1()

Syntax	No. of bits	Mnemonic
BaseVarBGN_ESC1() {		
UpdateFlag, 0;	1	uimsbf
}		

Table 248: Syntax of BaseVarBGN_ESC2()

Syntax	No. of bits	Mnemonic
BaseVarBGN_ESC2() {		
LSP4, 0;	1	uimsbf
VX_gain1[0], 3-0;	4	uimsbf
LSP1, 4-0;	5	uimsbf
LSP2, 6-3;	4	uimsbf
}		