
Information technology — Coding of
audio-visual objects —

Part 1:
Systems

AMENDMENT 4: SL extensions and
AFX streams

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Technologies de l'information — Codage des objets audiovisuels —

Partie 1: Systèmes

AMENDEMENT 4: Extensions SL et cours AFX

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The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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Amendment 4 to ISO/IEC 14496-1:2001 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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In subclause 8.2.1, replace Table 1 - List of Class Tags for Descriptors, by the following:

Table 1 - List of Class Tags for Descriptors

Tag value	Tag name
0x00	Forbidden
0x01	ObjectDescrTag
0x02	InitialObjectDescrTag
0x03	ES_DescrTag
0x04	DecoderConfigDescrTag
0x05	DecSpecificInfoTag
0x06	SLConfigDescrTag
0x07	ContentIdentDescrTag
0x08	SupplContentIdentDescrTag
0x09	IPI_DescrPointerTag
0x0A	IPMP_DescrPointerTag
0x0B	IPMP_DescrTag
0x0C	QoS_DescrTag
0x0D	RegistrationDescrTag
0x0E	ES_ID_IncTag
0x0F	ES_ID_RefTag
0x10	MP4_IOD_Tag
0x11	MP4_OD_Tag
0x12	IPL_DescrPointerRefTag
0x13	ExtensionProfileLevelDescrTag
0x14	profileLevelIndicationIndexDescrTag
0x15-0x3F	Reserved for ISO use
0x40	ContentClassificationDescrTag
0x41	KeywordDescrTag
0x42	RatingDescrTag
0x43	LanguageDescrTag
0x44	ShortTextualDescrTag
0x45	ExpandedTextualDescrTag
0x46	ContentCreatorNameDescrTag
0x47	ContentCreationDateDescrTag
0x48	OCICreatorNameDescrTag
0x49	OCICreationDateDescrTag

0x4A	SmpteCameraPositionDescrTag
0x4B	SegmentDescrTag
0x4C	MediaTimeDescrTag
0x4D-0x5F	Reserved for ISO use (OCI extensions)
0x60-0x61	Reserved for ISO use
0x62	FLEXmuxTimingDescrTag
0x63	FLEXmuxCodeTableDescrTag
0x64	ExtSLConfigDescrTag
0x65	FLEXmuxBufferSizeDescrTag
0x66	FLEXmuxIdentDescrTag
0x67	DependencyPointerTag
0x68	DependencyMarkerTag
0x69	FLEXmuxChannelDescrTag
0x6A-0xBF	Reserved for ISO use
0xC0-0xFE	User private
0xFF	Forbidden

In 8.6.4.2, replace Table 3 by:

Table 3 - ODProfileLevelIndication Values

Value	Profile	Level
0x00	Forbidden	-
0x01	Reserved for ISO use (no SL extension)	-
0x02-0x7F	Reserved for ISO use (SL extension)	-
0x03-0x7F	Reserved for ISO use	-
0x80-0xFD	user private	-
0xFE	No OD profile specified	-
0xFF	No OD capability required	-

Note - 0x01 also indicates that the SL extension mechanism is not present ."

Replace 8.6.5.1 ESDescriptor syntax by:

```
class ES_Descriptor extends BaseDescriptor : bit(8) tag=ES_DescrTag {
    bit(16) ES_ID;
    bit(1) streamDependenceFlag;
    bit(1) URL_Flag;
    bit(1) OCRstreamFlag;
    bit(5) streamPriority;
    if (streamDependenceFlag)
        bit(16) dependsOn_ES_ID;
    if (URL_Flag) {
        bit(8) URLlength;
        bit(8) URLstring[URLlength];
    }
    if (OCRstreamFlag)
        bit(16) OCR_ES_Id;
    DecoderConfigDescriptor decConfigDescr;
    if (ODProfileLevelIndication==0x01) //no SL extension.
    {
        SLConfigDescriptor slConfigDescr;
    }
    else // SL extension is possible.
    {
        SLConfigDescriptor slConfigDescr;
    }
    IPI_DescriptorPointer ipiPtr[0 .. 1];
    IP_IdentificationDataSet ipIDS[0 .. 255];
    IPMP_DescriptorPointer ipmpDescrPtr[0 .. 255];
    LanguageDescriptor langDescr[0 .. 255];
    QoS_Descriptor qosDescr[0 .. 1];
    RegistrationDescriptor regDescr[0 .. 1];
    ExtensionDescriptor extDescr[0 .. 255];
}
```

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In 8.6.5.2, replace:

slConfigDescr – is an SLConfigDescriptor as specified in 8.6.8.

by

slConfigDescr – is an SLConfigDescriptor as specified in 8.6.8. If ODProfileLevelIndication is different from 0x01, it may be an extension of SLConfigDescriptor (i.e. and extended class) as defined in 8.6.8.

In subclause 8.6.6.2: Semantics (of 8.6.6 DecoderConfigDescriptor), replace Table 8 - objectTypeIndication Values, with the following:

Table 8 - objectTypeIndication Values

Value	ObjectypeIndication Description
0x00	Forbidden
0x01	Systems ISO/IEC 14496-1 ^a
0x02	Systems ISO/IEC 14496-1 ^b
0x03	Interaction Stream
0x04	Systems ISO/IEC 14496-1 Extended BIFS Configuration ^c
0x05	Systems ISO/IEC 14496-1 AFX ^d
0x06-0x1F	reserved for ISO use
0x20	Visual ISO/IEC 14496-2 ^e
0x21-0x3F	reserved for ISO use
0x40	Audio ISO/IEC 14496-3 ^f
0x41-0x5F	reserved for ISO use
0x60	Visual ISO/IEC 13818-2 Simple Profile
0x61	Visual ISO/IEC 13818-2 Main Profile
0x62	Visual ISO/IEC 13818-2 SNR Profile
0x63	Visual ISO/IEC 13818-2 Spatial Profile
0x64	Visual ISO/IEC 13818-2 High Profile
0x65	Visual ISO/IEC 13818-2 422 Profile
0x66	Audio ISO/IEC 13818-7 Main Profile
0x67	Audio ISO/IEC 13818-7 LowComplexity Profile
0x68	Audio ISO/IEC 13818-7 Scaleable Sampling Rate Profile
0x69	Audio ISO/IEC 13818-3
0x6A	Visual ISO/IEC 11172-2
0x6B	Audio ISO/IEC 11172-3
0x6C	Visual ISO/IEC 10918-1
0x6D - 0xBF	reserved for ISO use
0xC0 - 0xFE	user private
0xFF	no object type specified ^g

^a This type is used for all 14496-1 streams unless specifically indicated to the contrary. Scene Description scenes, which are identified with StreamType=0x03 (see Table 7), using this object type value shall use the BIFSConfig specified in subclause 9.3.5.2.2 of this specification.

^b This object type shall be used, with StreamType=0x03 (see Table 7), for Scene Description streams that use the BIFSV2Config specified in subclause 9.3.5.3.2 of this specification. Its use with other StreamTypes is reserved.

^c This object type shall be used, with StreamType=0x03 (see Table 7), for Scene Description streams that use the BIFSConfigEx specified in subclause 8.7.6.1.2 of this specification. Its use with other StreamTypes is reserved.

^d This object type shall be used, with StreamType=0x03 (see Table 7), for Scene Description streams that use the AFXConfig specified in subclause 8.7.6.1.2 of this specification. Its use with other StreamTypes is reserved.

^e Includes associated Amendment(s) and Corrigendum(a). The actual object types are defined in ISO/IEC 14496-2 and are conveyed in the DecoderSpecificInfo as specified in ISO/IEC 14496-2, Annex K.

^f Includes associated Amendment(s) and Corrigendum(a). The actual object types are defined in ISO/IEC 14496-3 and are conveyed in the DecoderSpecificInfo as specified in ISO/IEC 14496-3 subpart 1 subclause 6.2.1.

^g Streams with this value with a StreamType indicating a systems stream (values 1,2,3, 6, 7, 8, 9) shall be treated as if the ObjectypeIndication had been set to 0x01.

