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**Information technology — Generic coding  
of moving pictures and associated audio  
information: Systems**

**AMENDMENT 3: Private data identification**

*Technologies de l'information — Codage générique des images animées et  
du son associé: Systèmes*

*AMENDEMENT 3: Identification des données privées*

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## Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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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## INTERNATIONAL STANDARD

## ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – GENERIC CODING OF MOVING  
PICTURES AND ASSOCIATED AUDIO INFORMATION: SYSTEMS

## AMENDMENT 3

## 1) Clause 2

Replace Table 2-3 with:

Table 2-3 – PID table

| Value                                                                                                      | Description                                                                            |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 0x0000                                                                                                     | Program Association Table                                                              |
| 0x0001                                                                                                     | Conditional Access Table                                                               |
| 0x0002                                                                                                     | Transport Stream Description Table                                                     |
| 0x0003-0x000E                                                                                              | Reserved                                                                               |
| 0x0010<br>...<br>0x1FFE                                                                                    | May be assigned as network_PID, Program_map_PID, elementary_PID, or for other purposes |
| 0x1FFF                                                                                                     | Null packet                                                                            |
| NOTE – The transport packets with PID values 0x0000, 0x0001, and 0x0010-0x1FFE are allowed to carry a PCR. |                                                                                        |

## 2) Subclause 2.4.4

*a* Replace text of paragraph 2 with:

In Transport Streams, Program Specific Information is classified into five table structures as shown in Table 2-23. While these structures may be thought of as simple tables, they shall be segmented into sections and inserted in Transport Stream packets, some with predetermined PIDs and others with user selectable PIDs.

b) Replace Table 2-23 with:

**Table 2-23 – Program specific information**

| Structure Name                     | Stream Type                          | PID number                      | Description                                                                      |
|------------------------------------|--------------------------------------|---------------------------------|----------------------------------------------------------------------------------|
| Program Association Table          | ITU-T Rec. H.222.0   ISO/IEC 13818-1 | 0x00                            | Associates Program Number and Program Map Table PID                              |
| Program Map Table                  | ITU-T Rec. H.222.0   ISO/IEC 13818-1 | Assignment indicated in the PAT | Specifies PID values for components of one or more programs                      |
| Network Information Table          | Private                              | Assignment indicated in the PAT | Physical network parameters such as FDM frequencies, Transponder Numbers, etc.   |
| Conditional Access Table           | ITU-T Rec. H.222.0   ISO/IEC 13818-1 | 0x01                            | Associates one or more (private) EMM streams each with a unique PID value        |
| Transport Stream Description Table | ITU-T Rec. H.222.0   ISO/IEC 13818-1 | 0x02                            | Associates one or more descriptors from Table 2-39 to an entire Transport Stream |

c) Add the following text between paragraphs 13 and 14:

The Transport Stream Description Table is optional. When present, the Transport Stream Description is carried within Transport Stream packets that have a PID value 0x0002 as specified in Table 2-23 and shall apply to the entire Transport Stream. Sections of the Transport Stream Description shall use a table\_id value of 0x03 as specified in Table 2-26 and its contents are restricted to descriptors specified in Table 2-39. The TS\_description\_section becomes valid when the last byte of the section required to complete the table exits B<sub>sys</sub>.

### 3) Subclause 2.4.4.4

Replace Table 2-26 with:

**Table 2-26 – table\_id assignment values**

| Value     | Description                                   |
|-----------|-----------------------------------------------|
| 0x00      | program_association_section                   |
| 0x01      | conditional_access_section(CA_section)        |
| 0x02      | TS_program_map_section                        |
| 0x03      | TS_description_section                        |
| 0x04-0x37 | ITU-T Rec. H.222.0   ISO/IEC 13818-1 reserved |
| 0x38-0x3F | Defined in ISO/IEC 13818-6                    |
| 0x40-0xFE | User private                                  |
| 0xFF      | Forbidden                                     |

#### 4) New subclauses 2.4.4.12 and 2.4.4.13

Add the following text and Table 2-30-1:

##### 2.4.4.12 Syntax of the Transport Stream section

ITU-T Rec. H.222.0 | ISO/IEC 13818-1 compliant bitstreams may carry the information defined in Table 2-30-1. ITU-T Rec. H.222.0 | ISO/IEC 13818-1 compliant decoders may decode the information defined in this table.

The Transport Stream Description Table is defined to support the carriage of descriptors as found in 2.6 for an entire Transport Stream. The descriptors shall apply to the entire Transport Stream. This table uses a table\_id value of 0x03 as specified in Table 2-26 and is carried in Transport Stream packets whose PID value is 0x0002 as specified in Table 2-3.

**Table 2-30-1 – The Transport Stream Description Table**

| Syntax                          | No. of bits | Mnemonic      |
|---------------------------------|-------------|---------------|
| TS_description_section() {      |             |               |
| <b>table_id</b>                 | <b>8</b>    | <b>uimsbf</b> |
| <b>section_syntax_indicator</b> | <b>1</b>    | <b>bslbf</b>  |
| '0'                             | <b>1</b>    | <b>bslbf</b>  |
| <b>reserved</b>                 | <b>2</b>    | <b>bslbf</b>  |
| <b>section_length</b>           | <b>12</b>   | <b>uimsbf</b> |
| <b>reserved</b>                 | <b>18</b>   | <b>bslbf</b>  |
| <b>version_number</b>           | <b>5</b>    | <b>uimsbf</b> |
| <b>current_next_indicator</b>   | <b>1</b>    | <b>bslbf</b>  |
| <b>section_number</b>           | <b>8</b>    | <b>uimsbf</b> |
| <b>last_section_number</b>      | <b>8</b>    | <b>uimsbf</b> |
| for (i = 0; i < N; i++) {       |             |               |
| descriptor()                    |             |               |
| }                               |             |               |
| <b>CRC_32</b>                   | <b>32</b>   | <b>rpchbf</b> |
| }                               |             |               |

##### 2.4.4.13 Semantic definition of fields in the Transport Stream section

**table\_id** – This is an 8 bit field, which shall be set to '0x03' as specified in Table 2-26.

**section\_length** – This is a 12-bit field, the first two bits of which shall be '00'. The remaining 10 bits specify the number of bytes of the section, starting immediately following the section\_length field, and including the CRC. The value in this field shall not exceed 1021 (0x3FD).

**version\_number** – This 5-bit field is the version number of the whole Transport Stream Description Table. The version number shall be incremented by 1 modulo 32 whenever the definition of the Transport Stream Description Table changes. When the current\_next\_indicator is set to '1', then the version\_number shall be that of the currently applicable Transport Stream Description Table. When the current\_next\_indicator is set to '0', then the version\_number shall be that of the next applicable Transport Stream Description Table.

**current\_next\_indicator** – A 1-bit indicator, which, when set to '1', indicates that the Transport Stream Description Table sent is currently applicable. When the bit is set to '0', it indicates that the table sent is not yet applicable and shall be the next table to become valid.

**section\_number** – This 8-bit field gives the number of this section. The section\_number of the first section in the Transport Stream Description Table shall be 0x00. It shall be incremented by 1 with each additional section in the Transport Stream Description Table.

**last\_section\_number** – This 8-bit field specifies the number of the last section (that is, the section with the highest section\_number) of the complete Transport Stream Description Table.

**CRC\_32** – This is a 32-bit field that contains the CRC value that gives a zero output of the registers in the decoder defined in Annex A after processing the entire Transport Stream Description section.

## 5) Subclause 2.6.1

Replace Table 2-39 with:

Table 2-39 – Program and program element descriptors

| descriptor_tag | TS  | PS  | Identification                                |
|----------------|-----|-----|-----------------------------------------------|
| 0              | n/a | n/a | Reserved                                      |
| 1              | n/a | n/a | Reserved                                      |
| 2              | X   | X   | video_stream_descriptor                       |
| 3              | X   | X   | audio_stream_descriptor                       |
| 4              | X   | X   | hierarchy_descriptor                          |
| 5              | X   | X   | registration_descriptor                       |
| 6              | X   | X   | data_stream_alignment_descriptor              |
| 7              | X   | X   | target_background_grid_descriptor             |
| 8              | X   | X   | video_window_descriptor                       |
| 9              | X   | X   | CA_descriptor                                 |
| 10             | X   | X   | ISO_639_language_descriptor                   |
| 11             | X   | X   | system_clock_descriptor                       |
| 12             | X   | X   | multiplex_buffer_utilization_descriptor       |
| 13             | X   | X   | copyright_descriptor                          |
| 14             | X   |     | maximum bitrate descriptor                    |
| 15             | X   | X   | private data indicator descriptor             |
| 16             | X   | X   | smoothing buffer descriptor                   |
| 17             | X   |     | STD_descriptor                                |
| 18             | X   | X   | IBP descriptor                                |
| 19-26          | X   |     | Defined in ISO/IEC 13818-6                    |
| 27-63          | n/a | n/a | ITU-T Rec. H.222.0   ISO/IEC 13818-1 Reserved |
| 64-255         | n/a | n/a | User Private                                  |