Annex H

Private Data

(This annex does not form an integral part of this Recommendation | International Standard)

H.0 Private Data

Private data is any user data which is not coded according to a standard specified by ITU-T | ISO/IEC and referred to in this Specification. The contents of this data is not and shall not be specified within this Recommendation | International Standard in the future. The STD defined in this Specification does not cover private data other than the demultiplex process. A private party may define each STD for private streams.

Private data may be carried in the following locations within the ITU-T Rec. H.222.0 | ISO/IEC 13818-1 syntax.

1) Transport Stream packet Table 2-2
   The data bytes of the transport_packet() syntax may contain private data. Private data carried in this format is referred to as user private within the stream_type Table 2-29. It is permitted for Transport Stream packets containing private data to also include adaptation_field(s).

2) Transport Stream Adaptation Field Table 2-6
   The presence of any optional private_data_bytes in the adaptation_field() is signalled by the transport_private_data_flag. The number of the private_data_bytes is inherently restricted by the semantic of the adaptation_field_length field, where the value of the adaptation_field_length shall not exceed 183 bytes.

3) PES packet Table 2-17
   There are two possibilities for carrying private data within PES packets. The first possibility is within the PES_packet_header, within the optional 16 bytes of PES_private_data. The presence of this field is signalled by the PES_private_data_flag. The presence of the PES_private_data_flag is signalled by the PES_extension_flag. If present, these bytes, when considered with the adjacent fields, shall not emulate the packet_start_code_prefix.

   The second possibility is within the PES_packet_data_byte field. This may be referred to as private data within PES packets under the stream_type Table 2-29. This category of private data can be split in two: private_stream_1 refers to private data within PES packets which follow the PES_packet() syntax such that all fields up to and including, but not limited to, PES_header_data_length are present. private_stream_2 refers to private data within PES packets where only the first three fields shall be present followed by the PES_packet_data_bytes containing private data.

   Note that PES packets exist within both Program Streams and Transport Streams therefore private_stream_1 and private_stream_2 exist within both Program Streams and Transport Streams.

4) Descriptors
   Descriptors exist within Program Streams and Transport Streams. A range of private descriptors may be defined by the user. These descriptors shall commence with descriptor_tag and descriptor_length fields. For private descriptors, the value of descriptor_tag may take the values 64-55 as identified in Table 2-39. These descriptors may be placed within a program_stream_map() Table 2-29, a CA_section() Table 2-27, a TS_program_map_section(), Table 2-28 and in any private section(), Table 2-30.

   Specifically private_data_bytes also appear in the CA_descriptor().

5) Private Section
   The private_section Table 2-30 provides a further means to carry private data also in two forms. This type of elementary stream may be identified under stream_type Table 2-29 as private_data in PSI sections. One type of private_section() includes only the first five defined fields, and is followed by private data. For this structure the section_syntax_indicator shall be set to a value of '0'. For the other type, the section_syntax_indicator shall be set to a value of '1' and the full syntax up to and including last_section_number shall be present, followed by private_data_bytes and ending with the CRC_32.