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SOURCE : Stuart Dunstan, Siemens Ltd
TITLE : Use of new H.222.1 stream ids
PURPOSE : Proposal

1. Introduction

Five `stream_ids`, being 1111 0100 to 1111 1000, and labelled as ITU-T Rec. H.222.1 type A-E have been allocated in ITU-T Rec. H.222.0/ISO/IEC 13818-1. It is suggested that five additional codepoints do not provide a large enough multiplexing space for the elementary stream types that H.222.1 must handle beyond H.222.0. A new syntax should be flexible enough to handle any future extensions.

In the Program Stream the `stream_id` field performs the multiplexing function. In the Transport Stream the `stream_id` field is less important, but must still be correct.

2. Proposal

This document proposes that only one of the ITU-T Rec. H.222.1 type A-E `stream_ids` is required, with the first byte of the PES packet payload being a multiplexing field. This is illustrated in Annex 1. Here the multiplexing field is labelled as **`stream_id_extension`**.

It is further proposed that the complete codespace in the **`stream_id_extension`** field be freely assignable. H.222.1 signalling assigns the **`stream_id_extension`** value at the start of a call. It is not clear that segmentation of the **`stream_id_extension`** field codespace would offer any advantages.

- end -

Annex 1:

Table 1 -- Proposed PES packet syntax with ITU-T Rec. H.222.1 type A stream_id.

Syntax	No. of Bits	Mnemonic
PES_packet() {		
packet_start_code_prefix	24	bslbf
stream_id == ITU-T Rec. H.222.1 type A	8	uimsbf
PES_packet_length	16	uimsbf
:		
<i>fields not shown</i>		
:		
for (i=0;i<N1;i++) {		
stuffing_byte	8	bslbf
}		
stream_id_extension	8	uimsbf
PES_packet_data_byte	8	bslbf
PES_packet_data_byte	8	bslbf
PES_packet_data_byte	8	bslbf
:		
<i>fields not shown</i>		
:		
else if (stream_id == padding_stream) {		
for (i=0;i<PES_packet_length;i++) {		
padding_byte	8	bslbf
}		
}		
}		