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SMPTE STANDARD

for Television — Format for Non-PCM Audio and Data in AES3 — Captioning Data Type



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1 Scope

This standard specifies data type specific format requirements for caption data bursts carried within an AES3 interface according to SMPTE 337M.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

EIA-708-B-1999, Digital Television (DTV) Closed Captioning

SMPTE 337M-2000, Television — Format for Non-PCM Audio and Data in an AES3 Serial Digital Audio Interface

SMPTE 338M-2000, Television — Format for Non-PCM Audio and Data in AES3 — Data Types

3 Preamble

The data_type shall be set to 29. Multiple formats of captioning data may be supported by this data type. The exact format of the captioning payload depends on the value of the data_type_dependent field. The data_stream_number shall be set to any number

other than 0x7. The data_mode parameter shall be set to a value of 0 (16-bit mode).

3.1 Caption data_type_dependent field

The burst_preamble for a caption data burst shall set the data_type_dependent value to match the format of the caption data payload (see table 1).

Table 1 – Value of data_type_dependent value for captioning data

data_type_dependent value	Caption data payload format
0	Reserved
1	EIA-708-B caption distribution packet
2–31	Reserved

3.2 Caption data payload

Multiple formats of caption data may be carried. The following clause specifies payload formats that have been defined for carriage in this standard.

3.2.1 EIA-708-B caption distribution packet (data_type_dependent = 1)

When the data_type_dependent value = 1, the caption data payload shall be formatted in the form of a caption distribution packet as specified in EIA-708-B. There shall be exactly one caption distribution packet carried in a single payload.