

INTERNATIONAL STANDARD

IEC
62328-2

First edition
2005-07

Multimedia home server systems – Interchangeable volume/file structure adaptation for broadcasting receivers –

Part 2: General recording structure

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MULTIMEDIA HOME SERVER SYSTEMS –
INTERCHANGEABLE VOLUME/FILE STRUCTURE ADAPTATION
FOR BROADCASTING RECEIVERS –**

Part 2: General recording structure

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International Standard IEC 62328-2 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

| | |
|---------------|------------------|
| FDIS | Report on voting |
| 100/964A/FDIS | 100/988/RVD |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

IEC 62328 consists of the following parts, under the general title *Multimedia home server systems – Interchangeable volume/file structure adaptation for broadcasting receivers*:

Part 1: General description and architecture

Part 2: General recording structure

Part 3: Broadcasting system specific recording structure - ISDB

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- reconfirmed;
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INTRODUCTION

Broadcast data in a transport stream can contain multiple associated objects. When that data is distributed on interchangeable storage media, for example, optical disks, the associated objects should be synchronized. Open distribution of the media requires that the data be adapted to a standardized volume and file structure, which should conform to the existing basic volume and file structure.

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MULTIMEDIA HOME SERVER SYSTEMS – INTERCHANGEABLE VOLUME/FILE STRUCTURE ADAPTATION FOR BROADCASTING RECEIVERS –

Part 2: General recording structure

1 Scope

This part of IEC 62328 defines the volume and file structure required for interchanging multimedia data of a home server/broadcasting receiver, which consists of an AV stream with multiple associated objects.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62328-1: *Multimedia home service systems – Interchangeable volume/file structure adaptation for broadcasting receivers – Part 1: General description and architecture*

IEC 62328-3: *Multimedia home service systems – Interchangeable volume/file structure adaptation for broadcasting receivers – Part 3: Broadcasting system specific recording structure – ISDB* <https://standards.iteh.ai/catalog/standards/sist/a46c7a57-d422-470c-8261-b01aa46495fa/iec-62328-2-2005>

ISO/IEC 646:1991, *Information technology – ISO 7-bit coded character set for information interchange*

ISO/IEC 10918-1:1994, *Information technology – Digital compression and coding of continuous-tone still images: Requirements and guidelines*

ISO/IEC 13818-2:2000, *Information technology – Generic coding of moving pictures and associated audio information: Video*

3 Definitions

For the purposes of this document, the following terms and definitions apply.

3.1 action

duration from start to end defined by a user or equipment

3.2 AV stream

recorded data in the MainTS stream file of PROGxxxx.PIF in this specification or the general meaning as multiplexed digital audio and video

3.3 AV stream sequence

sequence of AV stream(s) pointed by the orderly set of pointers to the part of a MainTS stream file

3.4 component
elementary stream contained in a TV programme

3.5 event
set of video and/or audio stream data and/or related objects, which together form a broadcasting service in the duration defined by a broadcaster

3.6 partial TS
TS derived from broadcasting TS by modifying PSI/SI and/or removing one or more elementary streams

3.7 programme
recorded TV programme compliant with this specification

3.8 programme reference(PGR)
pointer which references all or a part of AV stream in a programme

3.9 programme reference group(PGRG)
set of programme references or a set of programme reference groups

3.10 transport stream(TS)
system stream for broadcasting defined in ISO/IEC 13818-1
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3.11 TV programme
logical unit of TV broadcasting (event in digital TV service)

3.12 TVRS partial TS
partial TS recording format which complies with this specification

4 Abbreviations

For the purposes of this document, the following abbreviations apply.

| | |
|--------|--|
| ACU | Access unit |
| ALU | Allocation unit |
| AES | Advanced encryption standard |
| ATSC | Advanced television systems committee |
| BP | Byte position within a file starting with zero |
| CBC | Cipher block chaining |
| CCI | Copy control information |
| CD | Compact disc |
| DVD | Digital versatile disc |
| DES | Data encryption standard |
| DSM-CC | Digital storage media command and control |

| | |
|------|---|
| DVB | Digital video broadcasting |
| ES | Elementary stream |
| GOP | Group of pictures |
| HDD | Hard disk drive |
| IRV | International reference version |
| ISDB | Integrated services digital broadcasting |
| MO | Magneto-optical disk |
| MPEG | Moving picture experts group |
| PES | Packetized elementary stream |
| PGR | Programme reference |
| PGRG | Programme reference group |
| PID | Packet identifier |
| PSI | Programme-specific information |
| RBP | Relative byte position within a file starting with zero |
| RP | Recording packet |
| SI | Service information |
| STB | Set top box |
| TS | Transport stream |
| TU | Time unit |
| TVRS | TV recording format specific |
| UDF | Universal disk format |

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5 Notation

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5.1 Numerical values

5.1.1 Decimal notation

A decimal number is represented as decimal digits 0 to 9.

5.1.2 Hexadecimal notation

A hexadecimal number is represented as hexadecimal digits 0 to 9 and A to F prefixed by the symbol "0x".

5.1.3 Binary notation

A binary number is represented as binary digits 0 to 1 suffixed by the symbol "b".

5.1.4 Bit string

A bslbf shall be recorded as bit string, left bit first.

5.1.5 Unsigned numerical value

A uimbsf shall be unsigned integer, most significant bit first.

6 General

6.1 Generic timestamp (GTS)

The structure of GTS is described in Table 1.

Table 1 – Structure of GTS

| RBP | Length in bytes | Field name | Contents |
|-----|-----------------|----------------------|----------|
| 0 | 1 | TYPE and time zone | TTZ |
| 1 | 1 | Extended information | EI |
| 2 | 1 | Year (from 1900) | uimsbf |
| 3 | 1 | Month | uimsbf |
| 4 | 1 | Day | uimsbf |
| 5 | 1 | Hour | uimsbf |
| 6 | 1 | Minutes | uimsbf |
| 7 | 1 | Seconds | uimsbf |

6.1.1 Type and time zone (RBP0)

The structure of TTZ is described in Table 2.

Table 2 – Structure of TTZ

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| bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 |
|------|--------|-----------------|------|------|------|------|------|
| L/G | TZ P/M | TZ Offset[3..0] | | | HF | DSTF | |

6.1.1.1 L/G (bit7) [bslbf]

If the local time is applied, the L/G bit shall be set to 1b. If the coordinated universal time (global time) is applied, the L/G bit shall be 0b.

6.1.1.2 TZ P/M (bit6) [bslbf]

If the local time is ahead of the coordinated universal time, the TZ P/M bit shall be set to 1b. If the local time is behind the coordinated universal time, the TZ P/M bit shall be 0b. If the L/G bit is 0b, this means that the coordinated universal time is applied – this bit shall be ignored.

6.1.1.3 TZ offset [3..0] (bit5-2) [uimsbf]

This 4-bit value specifies the offset, in hours, of the date and time of the day from the coordinated universal time. This offset is an absolute value.

6.1.1.4 HF (bit1) [bslbf]

If this HF bit is set to 1b, the TZ offset has a half-hour additional time. If this HF bit is set to 0b, the TZ offset has no additional time.

6.1.1.5 DSTF (bit0) [bslbf]

If this DSTF bit is set to 1b, the daylight saving time is applied by the time zone. If this DSTF bit is set to 0b, the standard time is applied by the time zone.

6.1.2 Extended information (RBP1)

The structure of EI is described in Table 3.

Table 3 – Structure of EI

| bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 |
|-------------------|------|------|------|----------|------|------|------|
| Day of week[2..0] | | | | Reserved | | | |

6.1.2.1 Day of week [2..0] (bit7-5) [uimsbf]

The day of the week is stored. The 3-bit interpretation is described in Table 4.

Table 4 – Day-of-week interpretation

| Value | Interpretation |
|-------|--|
| 0x0 | The day of week is not specified in this field |
| 0x1 | Sunday |
| 0x2 | Monday |
| 0x3 | Tuesday |
| 0x4 | Wednesday |
| 0x5 | Thursday |
| 0x6 | Friday |
| 0x7 | Saturday |

6.1.2.2 Reserved (bit4-0) [bslbf]

These bits are reserved for future standardization and all bits shall be set to 0b.

6.1.3 Year (RBP2)

This field shall specify the year as an offset value from 1900.

6.1.4 Month (RBP3)

This field shall specify the month of the year as a number in the range 1 to 12.

6.1.5 Day (RBP4)

This field shall specify the day of the month as a number in the range 1 to 31.

6.1.6 Hour (RBP5)

This field shall specify the hour of the day as a number in the range 0 to 23.

6.1.7 Minute (RBP6)

This field shall specify the minute of the hour as a number in the range 0 to 59.