

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Consumer terminal function for access to IPTV and open internet multimedia services –

Part 2-1: Media formats

Fonction des terminaux grand public pour l'accès aux services IPTV et multimédias de l'internet ouvert –

Partie 2-1: Formats des médias



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CONSUMER TERMINAL FUNCTION FOR ACCESS TO IPTV AND OPEN INTERNET MULTIMEDIA SERVICES –

Part 2-1: Media formats

FOREWORD

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International Standard IEC 62766-2-1 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:

CDV	Report on voting
100/2487/CDV	100/2657/RVC

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

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

This International Standard is to be used in conjunction with IEC 62766-1.

A list of all parts in the IEC 62766 series, published under the general title *Consumer terminal function for access to IPTV and open internet multimedia services* can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

The IEC 62766 series is based on a series of specifications that was originally developed by the OPEN IPTV FORUM (OIPF). They specify the user-to-network interface (UNI) for consumer terminals to access IPTV and open internet multimedia services over managed or non-managed networks as defined by OIPF.

The set of media formats specified in this standard comprises:

- audio-video media formats (Clause 4), being combinations of the individual formats below.
- systems layer formats (Clause 5),
- video codecs and their usage (Clause 6),
- subtitle formats and their usage (Clause 7),
- teletext formats and their usage (Clause 8),
- audio codecs and their usage (Clause 9), and
- graphics and still image codecs and formats (Clause 10).

For each of these codecs and formats, it is specified how they apply to the overall system and to the various IPTV services (described in IEC 62766-1), including the implications for interoperability.

Figure 1 summarises the set of media formats specified by the present document in the form of a media formats stack. Media formats are specified at the content layer (audio, video, etc.) and for the systems layer. Transport protocols below the systems layer are specified in IEC 62766-4-1.

Audio, video, subtitle, teletext formats						
BBTS	PF		PDCF	MIPMP	DCF	CENC
TS or TTS			MP4 / ISOBMFF			
Transport protocols (specified in IEC 62766-4-1)						

IEC

Figure 1 – Media formats stack

CONSUMER TERMINAL FUNCTION FOR ACCESS TO IPTV AND OPEN INTERNET MULTIMEDIA SERVICES –

Part 2-1: Media formats

1 Scope

This part of IEC 62766 specifies formats for the audio/video content provided by IPTV services using fixed line access networks or mobile access networks and voice and video telephony services. It does not apply to the broadcast channel input of hybrid devices except where explicitly specified.

This part of IEC 62766 defines formats for the delivery of 3D video. At the present time, delivery to fixed terminals is targeted. No special provision is made for mobile or portable devices.

This standard defines the media formats utilised on the UNI reference point UNIT-17 of the Open IPTV Forum functional architecture.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 62481-2:2013, *Digital living network alliance (DLNA) home networked device interoperability guidelines – Part 2: DLNA media formats*

IEC 62766-1¹, *Consumer terminal function for access to IPTV and open internet multimedia services – part 1: General*

IEC 62766-3:2016, *Consumer terminal function for access to IPTV and open internet multimedia services – part 3: Content metadata*

IEC 62766-4-1², *Consumer terminal function for access to IPTV and open internet multimedia services – part 4-1: Protocols*

IEC 62766-5-1³, *Consumer terminal function for access to IPTV and open internet multimedia services – part 5-1: Declarative application environment*

IEC 62766-6⁴, *Consumer terminal function for access to IPTV and open internet multimedia services – part 6: Procedural application environment*

¹ Under preparation. Stage at the time of publication: IEC/CDV 62766-1:2015

² Under preparation. Stage at the time of publication: IEC/CDV 62766-4-1:2015

³ Under preparation. Stage at the time of publication: IEC/CDV 62766-5-1:2015

⁴ Under preparation. Stage at the time of publication: IEC/CDV 62766-6:2015