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INTERNATIONAL STANDARD

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Consumer terminal function for access to IPTV and open internet multimedia services –
Part 6: Procedural application environment

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 6: Procedural application environment

FOREWORD

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International Standard IEC 62766-6 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this International Standard is based on the following documents:

CDV	Report on voting
100/2550/CDV	100/2664/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.

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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- withdrawn,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.

A bilingual version of this publication may be issued at a later date.

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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.

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

Part 6: Procedural application environment

1 Scope

This part of IEC 62766 specifies the procedural application environment (PAE) component of the OIPF terminal function (OITF). It also defines the UNI reference point UNIS-12 of the OIPF functional architecture summarised in Annex B of IEC 62766-1:2017.

The PAE is an application environment for IPTV services based on Java [1]. Like other specifications such as OCAP, ACAP and Blu-ray [2], which are, or include, GEM terminal specifications, this document follows the structure of ETSI TS 102 728.

2 Normative references

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

IEC 62766-1:2017, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 1: General*

IEC 62766-2-1, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 2-1: Media Formats*

IEC 62766-2-2, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 2-1: HTTP Adaptive Streaming*

IEC 62766-3:2016, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 3: Content Metadata*

IEC 62766-4-1:2017, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 4-2: Protocols*

IEC 62766-5-1:2017, *Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services – Part 5-1: Declarative Application Environment*

ISO/IEC 14496-18, *Information technology – Coding of audio-visual objects – Part 18: Font compression and streaming*

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1 Javaspript is a programming language that has been standardised by ECMA as ECMAScript® and as ISO/IEC 16262

2 Blu-ray is a trademark owned by the Blu-ray Disc Association. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the product named. Equivalent products may be used if they can be shown to lead to the same results.

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ETSI EN 300 468, *Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB systems*

ETSI TS 101 211 v1.9.1, *Digital Video Broadcasting (DVB); Guidelines on implementation and usage of Service Information (SI)*

ETSI TS 101 600 V1.1.1 (2012-05), *Digital Video Broadcasting (DVB); GEM Profile for Plano-Stereoscopic 3DTV*

ETSI TS 102 727 V1.1.1 (2010-01), *Digital Video Broadcasting (DVB); Multimedia Home Platform (MHP) Specification 1.2.2*

ETSI TS 102 728 V1.2.1 (2011-09), *Digital Video Broadcasting (DVB); Globally Executable MHP (GEM) Specification 1.3 (including OTT and hybrid broadcast/broadband)*

ETSI TS 102 539 V.1.1.1, *Digital Video Broadcasting (DVB); Carriage of Broadband Content Guide (BCG) information over Internet Protocol (IP)*

ETSI TS 102 809, *Digital Video Broadcasting (DVB); Signalling and carriage of interactive applications and services in Hybrid broadcast/broadband environments*

ETSI, TS 102 816 V1.1.1, *Digital Video Broadcasting (DVB); Personal Video Recorder (PVR)/Personal Data Recorder (PDR) Extension to the Multimedia Home Platform*

ETSI TS 102 817 V1.1.1, *Digital Video Broadcasting (DVB); Digital Recording Extension to Globally Executable Multimedia Home Platform (GEM)*

3GPP TS 26.234, *Transparent end-to-end Packet-switched Streaming Service (PSS) Protocols and codecs (Release 9)*

DAVIC 1.4.1, *Specification part 9, Information Representation*
Available from
http://docbox.etsi.org/Reference/DAVIC/DAVIC%201.4.1%20Specification%20part%209.pdf

DVB, Blue Book A127, *Application Gateway and Media Server Fragment*
Available from
http://www.mhp.org/specs/a127.application_gateway_and_media_server_fragment.pdf

Java Community Process, Java Specification Request JSR-217, *Personal Basis Profile (PBP)* 1.1 (or later)
The latest release of JSR 217 is available at http://www.jcp.org/en/jsr/detail?id=217

Java Community Process, Java Specification Request JSR-218, *Connected Device Configuration (CDC)* 1.1 (or later)
The latest release of JSR 218 is available at http://www.jcp.org/en/jsr/detail?id=218

Java Community Process, Java Specification Request JSR-219, *Foundation Profile (FP) 1.1* (or later)
The latest release of JSR 219 is available at http://www.jcp.org/en/jsr/detail?id=219

Java Community Process, Java Specification Request JSR-927, Java TV, Version 1.1.1 (or later)
The latest release of JSR 927 is available at http://www.jcp.org/en/jsr/detail?id=927

Java Community Process, JAR File Specification, part of Java SDK 1.4.2 specification, 1999
Available from http://java.sun.com/j2se/1.4.2/docs/guide/jar/jar.html

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