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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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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references	8
3 Terms, definitions and abbreviated terms	10
3.1 Abbreviated terms.....	10
4 General considerations and conventions	10
4.1 Overview.....	10
4.2 Relation between DVB-GEM and PAE definitions.....	11
4.2.1 General	11
4.2.2 DVB-GEM Compliance.....	11
4.2.3 Functional equivalents.....	12
5 Architecture and deployment options	13
5.1 Architecture	13
5.2 Deployment options	14
5.2.1 Combined IG-AG-OITF STB and OITF TV (“headed configuration”)	14
5.2.2 Combined AG-IG with multiple OITFs (“headless configuration”).....	15
5.2.3 AG-IG, OITF-IG, multiple OITFs.....	16
5.2.4 Combined OITF-AG TV and IG-WAN Gateway (“headed configuration”)	16
5.3 Remote UI server.....	17
6 Protocols	17
6.1 Broadcast channel protocols	17
6.2 Interaction channel protocols	17
6.3 Transport protocols for application loading over the interaction channel.....	17
6.4 IPTV protocols	18
6.4.1 Streaming protocols.....	18
6.4.2 Metadata protocols	18
6.4.3 Content download protocols.....	18
6.5 Home network protocols.....	18
7 Content formats	18
7.1 Static formats.....	18
7.2 Streaming formats.....	18
7.3 Fonts	19
7.3.1 Resident fonts	19
7.3.2 Downloadable fonts	19
8 Void.....	19
9 Application model	19
9.1 Overview.....	19
9.2 Broadcast applications	21
9.3 DVB-J model.....	21
9.4 Stored and cached applications	21
9.5 Unbound applications.....	21
10 Application signalling / metadata	21
10.1 XML AIT.....	21
10.2 Stored and cached applications	22
11 The Java platform.....	23

11.1	Fundamentals	23
11.2	GEM 1.3	23
11.3	Extensions and mappings to GEM APIs	24
11.3.1	Broadcast transport protocol access API (org.dvb.dsmcc).....	24
11.3.2	Application listing and launching API (org.dvb.application)	24
11.3.3	Streaming media APIs	24
11.3.4	GEM 3D API	24
11.4	APIs defined by this part	24
11.4.1	Content and service protection API	24
11.4.2	User authentication API	24
11.4.3	UI server API	24
11.4.4	Content download API	24
11.4.5	Service API	25
11.5	PVR APIs.....	25
11.6	Content referencing	25
12	Security	25
12.1	Authentication of applications	25
12.2	Permission request file.....	26
12.3	Security policy for applications.....	26
12.4	Certificate management	26
13	Graphics reference model.....	26
14	System integration aspects.....	26
15	Detailed profile definitions	27
16	PVR.....	34
16.1	General.....	34
16.2	Mandatory Responsibilities	34
16.3	Optional responsibilities	35
16.4	Visibility of recording requests and recordings between applications and service providers	36
17	Minimum terminal capabilities	36
18	HTTP adaptive streaming	36
18.1	General.....	36
18.2	HAS support	36
Annex A (informative)	Headless behaviour of UI-related APIs	37
A.1	General.....	37
A.2	PBP	37
A.3	JavaTV	37
Annex B (informative)	Void	39
Annex C (normative)	Package org.oipf.download	40
C.1	Interface ApplicationDownloadRequest	40
C.2	Class LocatorDownloadSpec.....	40
C.3	Class ApplicationDownloadException.....	41
C.4	Class ApplicationDownloadSpec	41
Annex D (normative)	Package org.oipf.service – interface ServiceCreator	43
Annex E (normative)	org.oipf.auth.....	44
E.1	Class HTTPDigestCredentials	44
E.2	Class UserAuthenticationPermission.....	44
E.3	Class UserAuthenticationManager	45

E.4	Class UserCredentials	46
E.5	Class CookieCredentials	46
Annex F (normative)	org.oipf.userver – class UIServerManager	47
Annex G (normative)	org.oipf.drm	48
G.1	General.....	48
G.2	Class DRMAgentEvent.....	48
G.3	Class DRMAgentPermission	49
G.4	Interface DRMAgentListener	50
G.5	Class DRMAgent.....	50
G.6	Class DRMAgentException	52
G.7	Class DRMRightsErrorEvent	52
Annex H (normative)	org.oipf.pvr	54
H.1	Class RecordingAccessPermissions	54
H.2	Class RecordingProperties.....	55
Bibliography	57
Figure 1	– PAE architecture block diagram	13
Figure 2	– Combined IG-AG-OITF STB and OITF TV (“headed configuration”).....	14
Figure 3	– Combined AG-IG with multiple OITFs (“headless configuration”)	15
Figure 4	– AG-IG, OITF-IG, multiple OITFs	16
Figure 5	– Combined OITF-AG TV and IG-WAN Gateway (“headed configuration”).....	16
Table 1	– Status of XML AIT descriptors and elements	22
Table 2	– Mapping of GEM clauses relating to content referencing	25
Table 3	– Locators and corresponding text representations.....	26
Table 4	– Platform profile definitions	27
Table 5	– Applicability of GEM specification sections	28
Table 6	– Summary of functional equivalents (informative).....	31
Table 7	– Responsibilities of GEM recording specifications.....	34
Table 8	– Events during normal playback and resulting behaviour	35
Table 9	– Optional responsibilities of GEM recording specifications	35

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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.

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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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.

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 Java¹. Like other specifications such as OCAP, ACAP and Blu-ray², 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*

¹ Javasript 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.

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>

CableLabs, OpenCable Application Platform (OCAP) Version 1.1.2, September 2009,
Available from <https://apps.cablelabs.com/specification/opencable-application-platform-ocap/>