

INTERNATIONAL STANDARD

**Consumer terminal function for access to IPTV and open internet multimedia services –
Part 5-2: Web standards TV profile**





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IEC 62766-5-2

Edition 1.0 2017-07

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 33.170 35.240.95

ISBN 978-2-8322-4621-4

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 5-2: Web standards TV profile

FOREWORD

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International Standard IEC 62766 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
100/2549/CDV	100/2663/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- withdrawn,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.

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.

IEC 62766-5-2 will be updated over time, as maturity of different standards (now works in progress) increase and/or new web standards are defined.

This document is organized as follows: the main body includes a list of references to specifications upon which the defined profile relies and that are considered necessary to enable an enhanced user experience. Annex A contains instead a detailed list of which features for each specification are considered stable enough and therefore can be safely supported by terminals and used by application developers. Such tables will be updated in future revisions of this document as maturity of the various specifications evolve. Support tables are omitted for those specifications that are required to be fully supported.

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

Part 5-2: Web standards TV profile

1 Scope

This part of IEC 62766 specifies a profile of HTML5, CSS and other related web technologies for connected TVs. Its goal is to describe a common profile that can be relied on by content and service providers and implemented by manufacturers. It does not describe extensions or modification to any of the referenced technologies but only tries to define a subset of web standards that are suitable and useful for TV deployments and at the same time stable enough to provide a good degree of confidence that real interoperability can be achieved. It may add clarifications and/or additional constraints where these are needed due to the nature of the target deployment environment.

This part of IEC 62766 only describes a minimum subset of web technology that a terminal compliant with this profile is required to support. This does not preclude terminals to support more technologies than the ones described in this profile.

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

IETF RFC 6265, *HTTP State Management Mechanism*; Adam Barth, April 2011

IETF RFC 6455, *The WebSocket Protocol*; I. Fette, A. Melnikov, December 2011 including verified errata

W3C Recommendation, *CSS 2.1 Cascading Style Sheets*; Bert Bos, Tantek Çelik, Ian Hickson, Håkon Wium Lie, 7 June 2011. Available from: <http://www.w3.org/TR/2011/REC-CSS2-20110607/>

W3C Recommendation, *CSS Color Module Level 3*; Tantek Çelik, Chris Lilley, L. David Baron, 7 June 2011. Available from <http://www.w3.org/TR/2011/REC-css3-color-20110607/>

W3C Recommendation, *Media Fragments URI 1.0 (basic)*; Raphaël Troncy et al, 25 September 2012. Available from <http://www.w3.org/TR/2012/REC-media-frag-20120925/>

W3C Recommendation, *Media Queries*; Håkon Wium Lie; Tantek Çelik; Daniel Glazman; Anne van Kesteren, 19 June 2012. Available from <http://www.w3.org/TR/2012/REC-css3-mediaqueries-20120619/>

W3C Recommendation, *Selectors API Level 3*; Daniel Glazman et al., 29 September 2011. Available from <http://www.w3.org/TR/2011/REC-css3-selectors-20110929/>