**Terrestrial digital multimedia broadcasting (T-DMB) receivers - Part 3: Common API (IEC 62516-3:2013)**

**EESTI STANDARDIKESKUS**
ESTONIAN CENTRE FOR STANDARDISATION

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

| See Eesti standard EVS-EN 62516-3:2013 sisaldab Euroopa standardi EN 62516-3:2013 ingliskeelset teksti. | This Estonian standard EVS-EN 62516-3:2013 consists of the English text of the European standard EN 62516-3:2013. |
|---|---|
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 19.04.2013. | Date of Availability of the European standard is 19.04.2013. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 33.160.25, 33.170

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 62516-3

April 2013

ICS 33.160.25; 33.170

English version

## Terrestrial digital multimedia broadcasting (T-DMB) receivers - Part 3: Common API
(IEC 62516-3:2013)

Récepteurs pour diffusion multimédia
numérique terrestre (T-DMB) -
Partie 3: API commune
(CEI 62516-3:2013)

Empfänger für terrestrischen
Multimediadigitalrundfunk (T-DMB) -
Teil 3: Allgemeine API
(IEC 62516-3:2013)

This European Standard was approved by CENELEC on 2013-04-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

# CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

Ref. No. EN 62516-3:2013 E

## Foreword

The text of document 100/2020/CDV, future edition 1 of IEC 62516-3, prepared by Technical Area 1 "Terminals for audio, video and data services and contents" of IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62516-3:2013.

The following dates are fixed:

- latest date by which the document has       (dop)       2014-01-15
  to be implemented at national level by
  publication of an identical national
  standard or by endorsement

- latest date by which the national           (dow)       2016-04-15
  standards conflicting with the
  document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## Endorsement notice

The text of the International Standard IEC 62516-3:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

    IEC 62104:2003       NOTE       Harmonised as EN 62104:2007 (not modified).

## Annex ZA
(normative)

## Normative references to international publications
## with their corresponding European publications

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.

NOTE   When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 62516-1 | 2009 | Terrestrial digital multimedia broadcasting (T-DMB) receivers - Part 1: Basic requirement | EN 62516-1 | 2009 |
| IEC 62516-2 | 2011 | Terrestrial digital multimedia broadcasting (T-DMB) receivers - Part 2: Interactive data services using BIFS | EN 62516-2 | 2011 |
| ETSI EN 300 401 V1.3.3 | - | Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers | - | - |

## CONTENTS

# TERRESTRIAL DIGITAL MULTIMEDIA BROADCASTING (T-DMB) RECEIVERS –

## Part 3: Common API

## 1 Scope

This part of IEC 62516 describes the T-DMB common application program interface (API). It provides a software platform that, when combined with the T-DMB O/S, forms a universal interface for application programs. This interface allows application programs to be written in such a way that they run on any T-DMB receiver unit, as described in IEC 62516-1:2009 and IEC 62516-2:2011 regardless of its manufacturer.

This part of IEC 62516 also defines a software environment that allows multiple application programs to be interoperable on a single receiver unit by sharing the fixed resources of the receiver, and it provides a set of interfaces that the T-DMB middleware and the ASIC specific software use.

## 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 62516-1:2009, *Terrestrial digital multimedia broadcasting (T-DMB) receivers – Part 1: Basic requirements*

IEC 62516-2:2011, *Terrestrial digital multimedia broadcasting (T-DMB) receivers – Part 2: Interactive data services using BIFS*

ETSI EN 300 401 v1.3.3, *Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers*

## 3 Abbreviations

| | |
|---|---|
| ADC | Analog to Digital Converter |
| API | Application Programming Interface |
| ASIC | Application Specific Integrated Circuit |
| FIC | Fast Information Channel |
| HAL | Hardware Abstraction Layer |
| ISR | Interrupt Service Routine |
| MAC | Media Access Control |
| PAD | Program Associated Data |
| RF | Radio Frequency |
| R-S | Reed Solomon |
| SDIO | Secure Digital Input/Output |
| SI | Service Identifier |
| T-DMB | Terrestrial-Digital Multimedia Broadcasting |