

## IEC/TR 62002-3

Edition 1.0 2008-09

# TECHNICAL REPORT

Mobile and portable DVB-T/H radio access – Part 3: Measurement Interface

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE

M

ISBN 2-8318-9983-4

### CONTENTS

FO	REW	ORD	3
1	Scop	pe	5
2	Norn	mative references	5
3	Abbr	reviations	6
4	Interface description		
	4.1	General	
	4.2	Manual measurement	7
	4.3	Test system controlled measurement	7
5	Measurement interface commands		
	5.1	General	8
	5.2	Starting BER measurement	9
		5.2.1 General	9
		5.2.2 Start MFER measurement mode	9
	5.3	Stop measuring	9
	5.4	Restart counters	9
	5.5	Signal quality reporting	10
Fig	ure 1	- Example of a test set up in test system controlled measurement	8
Tab	ole 1 -	– Parameters for start command	8
Tab	le 2 -	<ul> <li>Initial report header parameters (after start/restart)</li> </ul>	10
Tab	le 3 -	– Signal quality parameters	11

#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

#### MOBILE AND PORTABLE DVB-T/H RADIO ACCESS -

#### Part 3: Measurement Interface

#### **FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international
  consensus of opinion on the relevant subjects since each technical committee has representation from all
  interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a technical report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

IEC 62002-3, which is a technical report, has been prepared by technical area 1: Terminals for audio, video and data services and contents, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
100/1397/DTR	100/1443/RVC

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

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

A list of all parts in the IEC 62002 series, under the general title *Mobile and portable DVB-T/H radio access*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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

#### MOBILE AND PORTABLE DVB-T/H RADIO ACCESS -

#### Part 3: Measurement Interface

#### 1 Scope

This Technical Report is defining the minimum requirements for a terminal measurement interface to be used in test systems designed to verify the terminal conformance according IEC 62002-1 and IEC 62002-2. The interface is especially designed to be used with terminal category c), hand-held portable convergence terminals, but can obviously be used with other terminal categories as well (see IEC 62002-1, Clause 4). The measurement interface is used to control the terminal and read the degradation information from the terminal. The test signal interface (terminal input) is specified in the IEC 62002-2 and is not part of this Technical Report.

#### 2 Normative references

The following referenced documents are indispensable for the application 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 62002-1, Mobile and portable DVB-T/H radio access - Part 1: Interface specification

IEC 62002-2, Mobile and portable DVB-T/H radio access - Part 2 Interface conformance testing