



**CONSULTATION PAPER ISSUED BY
THE MEDIA DEVELOPMENT AUTHORITY
AND
THE INFO-COMMUNICATIONS DEVELOPMENT AUTHORITY OF SINGAPORE**

**PUBLIC CONSULTATION ON THE TECHNICAL SPECIFICATION FOR THE
INTEGRATED RECEIVER DECODER FOR USE WITH THE SECOND
GENERATION DIGITAL TERRESTRIAL TELEVISION BROADCASTING SYSTEM**

1 AUGUST 2012

TECHNICAL SPECIFICATION FOR INTEGRATED RECEIVER DECODER FOR USE WITH THE SECOND GENERATION DIGITAL TERRESTRIAL TELEVISION BROADCASTING SYSTEM (DVB-T2)

1 INTRODUCTION

- 1.1 The Media Development Authority of Singapore (“MDA”) is a statutory board established pursuant to the Media Development Authority of Singapore Act (Chapter 172) to regulate and promote the development of the media industry. The Infocomm Development Authority of Singapore (“IDA”) is a statutory board established pursuant to the Info-communications Development Authority of Singapore Act (Chapter 137A) to promote the efficiency and international competitiveness of the information and communications industry in Singapore.
- 1.2 On 31 January 2012, MDA formed a Technical Panel Committee (“TPC”) as part of an industry engagement process to deliberate on the DVB-T2 Basic Receiver Technical Specifications to be adopted for Singapore. The TPC comprises broadcasters and key TV and device manufacturers. The TPC has submitted its recommendations to MDA on the draft technical specifications for DVB-T2 basic receiver in Singapore to enable good reception of digital terrestrial TV services.
- 1.3 The MDA seeks to have a wide range of basic receivers that are affordable for mass deployment to facilitate the nationwide switchover to digital broadcasting. The Technical Specifications for the DVB-T2 receiver seeks to have minimal deviation from international guidelines and specifications to avoid incurring unnecessary costs to customize receivers for the Singapore market, while achieving minimum technical requirements and features to enable good indoor reception of Free-To-Air (FTA) digital terrestrial TV services in Singapore.
- 1.4 In June 2012, the draft Technical Specification for Integrated Receiver Decoder (IRD) for use with the second generation Digital Terrestrial Television broadcasting system (DVB-T2) was jointly developed by the MDA TPC and the IDA Telecommunications Standards Advisory Committee (“TSAC”) Industry Working Group 3 (“TSAC WG3”), as part of efforts in profiling the interactive TV service requirements for Singapore. The DVB-T2 basic receiver technical specifications recommended by the MDA TPC have been incorporated into the draft Technical Specification for IRD for use with the DVB-T2 to be issued by IDA.

2 PURPOSE OF THE TECHNICAL SPECIFICATION

- 2.1 The Specification defines the minimum requirements for the IRD functionality which may be incorporated as a standalone module, an Integrated Digital Television (IDTV) or any other similar device intended for use with the DVB-T2 system. The requirements for advanced features such as Personal Video

Recorders (PVRs) and interactive services are not included in the scope of this Specification.

- 2.2 The Specification is established to enable equipment manufacturers and/or suppliers to bring in compatible IRD-T2 modules and IDTVs that will provide good indoor reception of Free-To-Air (FTA) Digital Terrestrial Television (DTT) services. It is intended for enforcement under the Telecommunications Act and the Telecommunications (Dealers) Regulations.

3 REQUEST FOR COMMENTS

- 3.1 MDA and IDA hereby invite interested parties to submit comments regarding the Technical Specification. Respondents must identify the specific areas of the Technical Specification on which they are commenting. Where appropriate, respondents are encouraged to suggest proposed changes, including drafting language and an explanation of the reasons for the proposed changes.
- 3.2 MDA and IDA invite the submission of comments regarding the proposed features for the DVB-T2 basic IRD-T2 in the following format:
- a) A cover page (including information specified below);
 - b) Table of contents;
 - c) Summary of major points;
 - d) Statement of interest;
 - e) Comments and
 - f) Conclusion.
- 3.3 Supporting material may be placed in an annex. All comments should be clearly and concisely written, and should provide a reasoned explanation for any propositions. Where feasible, parties should identify the specific proposal on which they are commenting.
- 3.4 All views and comments should be submitted in writing and sent to MDA and IDA, in both hard and soft copy (preferably in Microsoft Word format). The submissions must reach MDA and IDA by **12 noon, 21 August 2012**. Respondents are required to include personal/company particulars as well as correspondence addresses in their submissions to this Consultation. The submission should be addressed to:

1. Ms Ling Pek Ling
Director (Digital Broadcasting Deployment Office)
Media Development Authority of Singapore
3 Fusionopolis Way
16-22 Symbiosis
Singapore 138633

(Attention: Ms Agnes Chong)
Email: agnes_chong@mda.gov.sg

2. Mr Raymond Lee
Director (Resource Management and Standards)

Infocomm Development Authority of Singapore
Resource Management & Standards
10 Pasir Panjang Road
#10-01 Mapletree Business City
Singapore 117438

(Attention: Ms Woo Yim Leng)
Email: eqptregn@ida.gov.sg

MDA and IDA reserve the right to make public all or parts of any written comment and to disclose the identity of the source. Commenting parties may request confidential treatment for any part of the comment that the commenting party believes to be proprietary, confidential or commercially sensitive. Any such information should be clearly marked and placed in a separate annex. If MDA and IDA grant the request for confidential treatment, it will consider, but it will not publicly disclose, the information. If MDA and IDA reject the request for confidential treatment, it will return the information to the commenting party and will not consider the information as part of its review. As far as possible, commenting parties should limit any request for confidential treatment of information submitted. MDA and IDA will not accept any comment that requests for confidential treatment of all or a substantial part of the comment.

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