

Free TV Australia Digital Terrestrial Television Broadcasting (DTTB) Service Information Register

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Introduction

DVB Service Information codes are allocated by the DVB Project Office to terrestrial television broadcasters who have implemented DVB systems. The DVB Project Office is the only registrar and maintains a register of all current assignments. The allocation of identifiers are defined in ETSI TS 101 162. Each identifier has a number of attributes which are also defined in ETSI TS 101 162.

Values for Original_Network_ID, Transport_Stream_ID and Service_ID have been allocated to Australian television broadcasters as found in Free TV Operational Practice 40. Operational Practice 40 has been developed with the approval of the DVB Project Office and allocated for use by terrestrial free-to-air broadcasting organisations in Australia. Free TV Australia manages the allocation of Network_ids on behalf of the Australian Communications and Media Authority.

The Logical Channel Descriptor has been developed by the UK based Digital TV Group and permission has been granted for its implementation by Australian television broadcasters. Implementation of the Logical Channel Descriptor in Australia is defined in Free TV Operational Practice 41 and the DTG D Book.

This Free TV Australia DTTB Service Information Register provides guidance on the implementation of Service Information by Australian television broadcasters.

The Free TV Australia DTTB Service Information Register was developed for the television broadcasters to whom the Service Information codes are assigned to assist with the management so as to avoid conflicts / collisions with any new assigned values.

It should be noted changes within the range of values assigned to television broadcasters may occur at any time which may not be reflected in the

Free TV Australia DTTB Service Information Register as a specific point in time.

The Australian DTTB Service Information Register was not intended to be a resource for any parties other than television broadcasters who have the Service Information codes assigned by the DVB organisation.

Any inquiries relating to current use of the Service Information codes assigned by the DVB organisation should be referred to the television broadcasters to whom the Service Information codes are assigned.

This register should be read in accordance with the referenced standards and Operational Practices. Users of the document should be aware that the values contained within may be subject to revision or change of status from time to time.

Background

Technical parameters of Australian Digital Terrestrial Television Broadcasts (DTTB) are in accordance with AS 4599.1 —2015 *Australian Standard® Digital television—Terrestrial broadcasting Part 1: Characteristics of digital*.

AS 4599.1-2015 references two operational practices published by FreeTV Australia for the allocation of service information values, which are critical to the identification and discovery of services in DVB transport streams.

The latest version of the two operational practices are:

Free TV Australia Operational Practice OP-40 Allocation of DVB Service Information Codes for Australia Issue 5 Dated November 2020

This operational practice specifies the method and values for assignment of DVB network, transport and service identifiers carried in the program specific information / service information (PSI/SI) of free-to-air digital terrestrial and satellite television broadcasts in Australia, including :

- (i) original_network_id (ONID); where there is one ONID per transport stream and the actual value used may correspond to the network_id
- (ii) network_id (NID); where there is one NID per transport stream
- (iii) transport_stream_id (TSID); where there is one TSID per transport stream
- (iv) service_id (SID); where there may be multiple SIDs per transport stream and each SID will have a corresponding logical channel number (LCN).

Free TV Australia Operational Practice OP 41 Logical Channel Descriptor and Allocation of Logical Channel Numbers Issue 8 Dated July 2016

This operational practice specifies the operational parameters for use of the logical_channel_descriptor for Australian Free -to-air Digital Terrestrial Television transmissions and assigns the allocation of Logical Channel Numbers (LCNs) to be used to identify television and radio services carried on free-to-air DVB transmissions.

Legend

The tables in the Free TV DTTB Service Information Register list service information values in use by Australian broadcasters for terrestrial television transmissions, which have been allocated to broadcasters according to Free TV Operational Practices.

The allocations are listed by commercial television market areas, which often form a sub area to a broadcaster licence area. It should be noted that values may be identical in different market areas, this indicates the same transmission serves both areas.

In the case of national broadcasters, a group of values may cover many market areas as the one transport stream is fed to a multitude of areas. Please contact national broadcasters, ABC and SBS, for any further information.

These listings by market areas are in hexadecimal values. The following tables provide a list of all service information in both hexadecimal and the corresponding decimal values.

For each Transport Stream, there will only be one ONID, NID and TSID value, but there may be many services. These form a "block" in the tables which may be readily identified as a stream description.