

Monday, 27 November 2017

It's not that I'm so smart, it's just that I stay with problems longer.

**Albert Einstein**



## Digitálna kamera

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## DVB-T in Slovenia

The analog switch-off happened on December 1st 2010. All major analog TV transmitters were switched off while some small transmitters are still in operation to cover areas where **MUX A** with public channels is not present yet.

Slovenia uses MPEG-4 compression standard (AVC or H.264 for video and AAC for audio) for the digital terrestrial television platform. The MPEG-4 part 10 (AVC/H.264) and MPEG-4 part 3 (AAC) standards have been selected because of their improved compression efficiency compared with MPEG-2 (or MPEG-1 layer II for audio) and the consequent ability to fit more channels into the multiplex. It is expected that other countries that are now using MPEG-2 will sooner or later switch to MPEG-4.

Two digital networks (**Multiplex A** and **Multiplex C**) are operated by the public service broadcaster **RTV Slovenija**. Currently mux A covers over 98% of the population, mux C about 96%. Both still use legacy audio coding MPEG-1/II.

The Post and Electronic Communications Agency of the Republic of Slovenia (APEK) also runs a **web DVB-T portal**. The portal is in Slovene language and gives up to date details on the status of digital terrestrial television in Slovenia.

### Slovenian Multiplex A Transport Stream Analysis (Updated Hourly)



Slovenian MULTIPLEX A is operated by the public broadcaster RTV Slovenija. It carries 3 public national channels (TV Slovenija 1, TV Slovenija 2 and TV Slovenija 3), 2 public regional channels (TV Koper/Capodistria in the **Zahod (West) allotment** and TV Maribor - Tele M in the **Vzhod (East) allotment** and private regional channel Vaš Kanal.

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### Slovenian Multiplex C Transport Stream Analysis (Updated Hourly)



Slovenian MULTIPLEX C is operated by the public broadcaster RTV Slovenija. It is carrying national commercial channels.

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### Slovenian Multiplex A West Transport Stream Analysis



Slovenian Multiplex A operated by the public broadcaster **RTV Slovenija** currently carries 9 channels in the Zahod (West) allotment: 3 public national channels (TV Slovenija 1, TV Slovenija 2 and TV Slovenija 3) 1 public regional channel TV Koper/Capodistria, 4 commercial national channels (POP TV, KANAL A, TV PIKA and TV3) and regional channel TV Primorka. On this page you can see the analysis of the MUX A transport stream from the Zahod (West) allotment. The displayed data was extracted from the actual broadcasted multiplex received in Koper from the Beli Križ transmitting site (channel 51, January

2010).

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### Slovenian Multiplex A East Transport Stream Analysis



Slovenian MUX A operated by the public broadcaster **RTV Slovenija** currently carries 4 channels in the Vzhod (East) allotment: 3 public national channels (TV Slovenija 1, TV Slovenija 2 and TV Slovenija 3), public regional channel TV Maribor, 2 commercial national channels POP TV and KANAL A and local channel RTS.

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Slovenian MULTIPLEX B is operated by the Norwegian company [Norkring](#). Norkring is the leading provider of broadcasting services in Norway, operating one of the largest networks in Europe. The company is the owner of a large amount of terrestrial transmitters; 47 main transmitter sites and 2700 smaller sites containing more than 7000 transmitters spread throughout Norway.

Norkring is owned by Telenor ASA and is part of Telenor Broadcast Holding, which is one of three core areas in The Telenor Group. Telenor is among the leading companies in telecommunication and information technology worldwide. Telenor has substantial international management experience through mobile and satellite operations, as well as global conditional access services.

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### Slovenian Multiplex B West Transport Stream Analysis



Slovenian MULTIPLEX B is operated by the Norwegian company [Norkring](#). Norkring is the leading provider of broadcasting services in Norway, operating one of the largest networks in Europe. The company is the owner of a large amount of terrestrial transmitters; 47 main transmitter sites and 2700 smaller sites containing more than 7000 transmitters spread throughout Norway.

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### Statistical Multiplexing - Multiplex Usage Chart

A multiplex or mux is a group of digital services (TV channels, Radio stations, teletext, signaling, etc.) that are mixed together for broadcast. For example, a TV channel has at least two services or streams. video and audio. Each DVB-T multiplex has capacity that depends on modulation and coding parameters (see possible [bitrates](#)). In principle there are two approaches used to combine digital services into multiplex: Constant Bit Rate (CBR) encoding and Variable Bit Rate (VBR) encoding.

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### Specifications for Slovenian DVB-T receivers

This document represents minimum requirements for DVB-T receivers used in the Republic of Slovenia. The document is applicable for stand-alone set-top boxes (STB) , integrated receivers (iDTV) , SDTV level receivers and HDTV level receivers.

These specifications were published by the Post and Electronic Communications Agency of the Republic of Slovenia. The purpose of this document is to present general requirements for receiving, decoding and presentation of content distributed on the Slovene DVB-T platform.

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### Adriatic Agreement - Dividing UHF Channels

In 2006 there was a conference in Geneva (RRC06) which had a task of making a new plan for TV channels using digital video broadcasting DVB-T . This is now called the GE06 plan. This plan was made on foundations of an old plan made in 1961 on a similar conference in Stockholm (the plan is called ST61). Of course, there were many pre-conference activities in order to assure that each country would come to the conference with some (at least partially) agreed channel plan. The task of making a channel plan was not easy. Taking into account technical properties of radio wave propagation, protection ratios to avoid interference, demands of neighboring countries, geographical properties of planned networks and many other facts, each country had to make a list of channels for each allotment (area for SFN network). Since a common approach was to plan for 7 layers in UHF, this task was close to mission impossible.

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