

DiVi Software Tools for DVB Receiver Test

TARA Systems



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For Developers, which want to verify their DVB receiver devices, with own, customized DVB transport streams (TS), the DiVi Software Tools enable the analysis, editing and generation of almost any kind of data and parameters within transport stream files – and thereby helps to establish sophisticated test scenarios in laboratories, factories and field tests.

The DiVi Software Tools have been especially designed for testing of DVB device, like TV sets, STBs and mobile devices. In contrast to traditional broadcaster equipment, the DiVi Software Tools are focused on the purpose of modifying almost every kind of data in DVB transport streams in a flexible and cost-effective way. For example, developers can edit service names within the transport streams to test their automatic channel scanning or insert dynamic switching of audio and video parameters to check the correct behaviour of their products.

As part of TARA's DiVi Tools for DVB testing, the DiVi Software Tools help developers to build up their collection of versatile and reproducible test cases, in order to verify their devices and finally increase product quality. The DiVi Software Tools are used in laboratories, field test and production test by manufacturers of consumer electronics (CE), automotive and infotainment devices worldwide.

As a basis for own test case collections, TARA additionally offers an advanced collection of well categorized and localized Transport Stream files from DVB-T/S/S2/C recordings all over Europe.

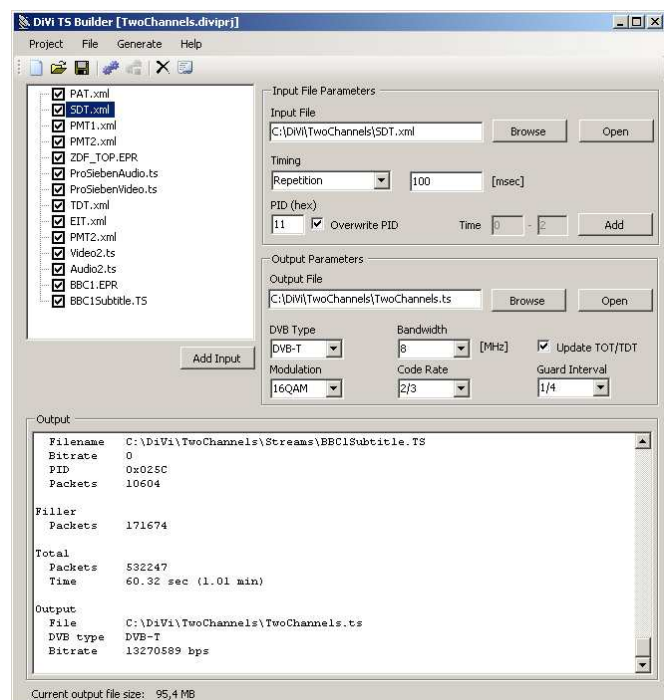
DiVi Software Tools are suited for:

- Verifying DVB receivers for certifications
- Data analyzing in own DVB recordings
- Specific feature tests for e.g. EPG, Teletext, DVB Subtitle decoder and automatic channel installation.
- Language specific string encoding test
- Test with dynamic data content, e.g. parameter switch
- Stability tests with erroneous data values

- Insertion of customer specific data into DVB transport stream
- Build-up of comprehensive collection of reproducible test cases
- Production tests

Workflow

- Analyzing: Recorded DVB TS are separated into audio, video and data. DVB-SI data is extracted into human-readable XML files.
- Modification of data values and parameters via XML file with simple text editor.
- Generation of DVB TS using modified XML files, Teletext and Subtitle data and more.
- Broadcasting of DVB TS into receiver device.



DiVi TS Builder for comfortable generation of DVB TS.

„Excellence in Embedded CE Software“

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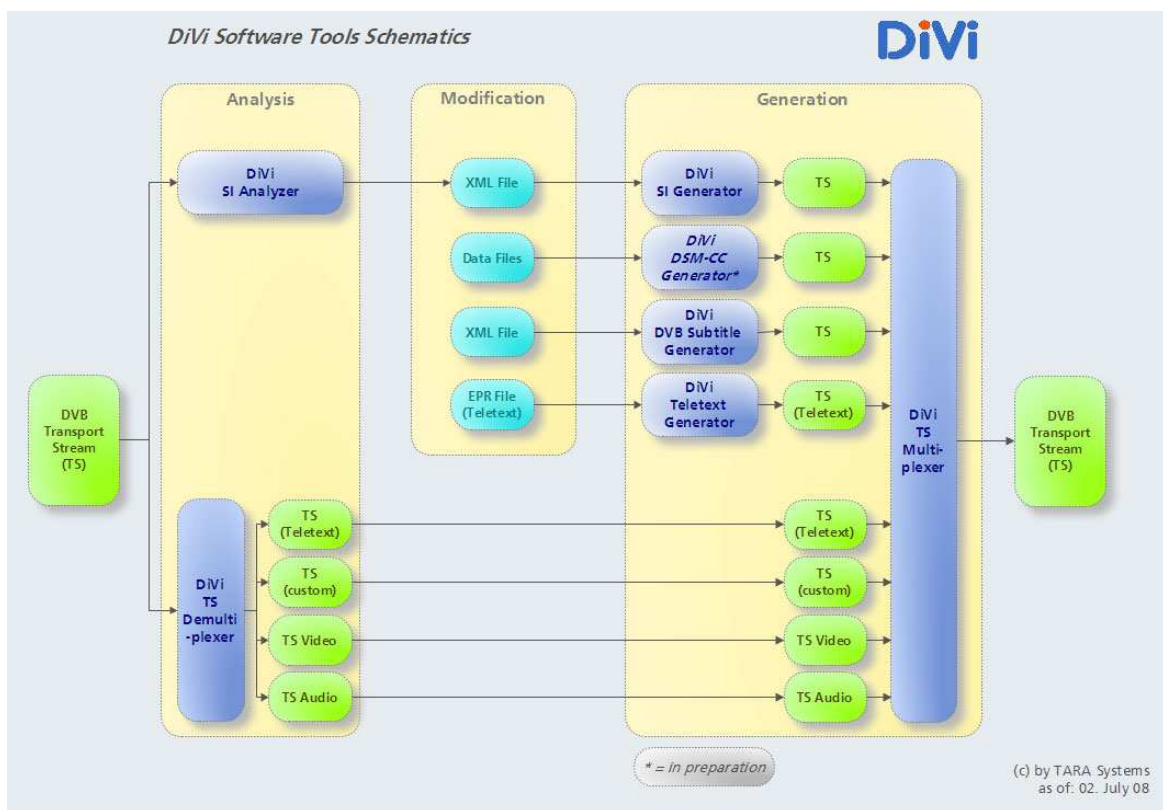


DiVi Software Tools Overview

- DiVi TS Demultiplexer: splits DVB streams into different TS for each PID: audio, video, service information (SI) and other data are separated for further inspection and editing.
- DiVi Analyzer (TS to XML Converter): converts TS files into the human-readable, widely-used XML format and enables easy analyzing and editing of DVB-SI data with standard tools. Support for BAT, PAT, PMT, SDT, EIT, TDT, TOT and Freeview descriptors.
- DiVi TS Builder: GUI for comfortable generation of ready-to-broadcast DVB TS.
- DiVi SI Generator (XML to TS Converter): generation of DVB Service Information tables from own XML files. Support for BAT, PAT, PMT, SDT, EIT, TDT, TOT, NIT, entavio descriptors, Freeview descriptors (UK), conditional access and dynamic content, e.g. to test parameter switching (4:3 to 16:9) at runtime.
- DiVi Subtitle Generator for generation of DVB subtitles / HD subtitles - compliant with ETSI EN 300 743 V1.3.1 definition.
- DiVi Teletext Generator for conversion of EPR files with Teletext data, VPS, WSS, CC, EPG services into transport stream files. As starting point, TARA provides a collection of EPR files containing recordings of Teletext, VPS, WSS.
- DiVi TS Multiplexer assembles various TS files (data, audio, video) to one file for DVB conform payout.
- In preparation:
 - DiVi Teletext Analyzer: converts TS into EPR files with Teletext data.
 - DiVi DSM-CC Generator: converts data files into TS files.

Get the free Trial Version!

For a free trial version and further information, please contact: divi@tara-systems.de or visit our website: www.tara-systems.de/divi



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