

Stream Labs T2-MI Splitter

Service **T2-MI Splitter** allows receiving multicast T2-MI stream, splitting on separate streams and retransmitting each stream in MPEG 2 format to user designated address. Control over Stream Labs T2-MI Splitter is facilitated via WEB interface. In order to start T2-MI Splitter, go to Windows Start -> All Programs -> Stream T2MI Splitter Service and launch **Stream T2MI Splitter Service** or open WEB browser and type URL: <http://localhost:5001/>

You will see interface for T2MI Splitter in a browser as shown on Fig. 1:



Fig. 1 Web interface for Stream Labs T2-MI Splitter

- 1. Number of licenses** – for correct work of application USB dongle with licenses has to be inserted into server and corresponding drivers must be installed. Then number of licenses will be displayed in this field. First digit is for total number of licenses and second digit is for currently active.
- 2. Add** – for adding of T2MI stream. Clicking on it will call pop-up dialog as shown on Fig. 2:

Add New T2MI Stream

IP stream ▾

Remote IP Address:
224.xxx.xxx.xxx

Port:
1234

Local Interface:
10.0.0.1

SSM:

IMR Source IP address:

OK Cancel

Fig.2 Dialog for addition of T2-MI stream

Addition of IP stream:

- Select «IP stream» from the drop list;
- Set values of IP stream – enter multicast or unicast address into «Remote IP address» field;
- «Port» - port for receiving of data;
- «Local Interface» – address of local subnet. Press «OK».

Option *Source specific Multicast (SSM)* – turns on/off data reception of multicast stream with filtering by data source according to standard RFC-4607 Source-Specific Multicast for IP.

Addition of ASI stream:

Select «ASI stream», from context menu; then select input supports and receives ASI stream. Press «OK».

After successful addition of stream, interface will display bit rate of entire stream, and also a bit rate of each stream contained in T2-MI multicast stream as shown on Fig. 3:

The screenshot shows the 'Stream Labs T2-MI Splitter' interface. At the top, it says 'INFINITE FREEDOM ON-AIR'. Below the title, it indicates 'Number of licenses: 2 (1)'. The main section is titled 'T2-MI stream # 1' and contains a table with the following data:

T2-MI stream # 1		Demultiplexed streams			
Edit	Remove				
224.1.11.1:1234		PLP 0	PLP 1	PLP 2	PLP 3
127.0.0.1		Add	Add	Add	Add
Bit Rate: 33790 kbps		Input bit rate: 11165 kbps	Input bit rate: 10151 kbps	Input bit rate: 0 kbps	Input bit rate: 0 kbps
Show PSI					

Below this table, there is another section titled 'T2-MI stream' with an 'Add' button and a 'Demultiplexed streams' header.

At the bottom of the interface, it says 'T2-MI Splitter, v.1.0.0.4; © Stream Labs, 2013.'

Fig. 3 Addition of T2-MI stream

There are following options, applicable to added T2-MI stream:

- Edit – editing if address or type of T2-MI stream;
- Remove –removal of T2-MI stream;
- Show PSI – display Program Specific Information, based on charts for T2-MI stream as shown on Fig. 4:

Program Specific Information

Visible PIDs		
4096, 0, 256		

PAT, v.11	
Service	800
PMT PID	256

Program map table list		
Service 800		
PMT, v. 11		
PCR PID: 4096		
Elementary streams		
PID	Type	Descriptors
4096	6	

Fig. 4 Program Specific Information

Addition of MPEG2 transmitter:

In order to transmit any substream from T2-MI stream in MPEG2 format, press «Add» button as shown on Fig. 5:

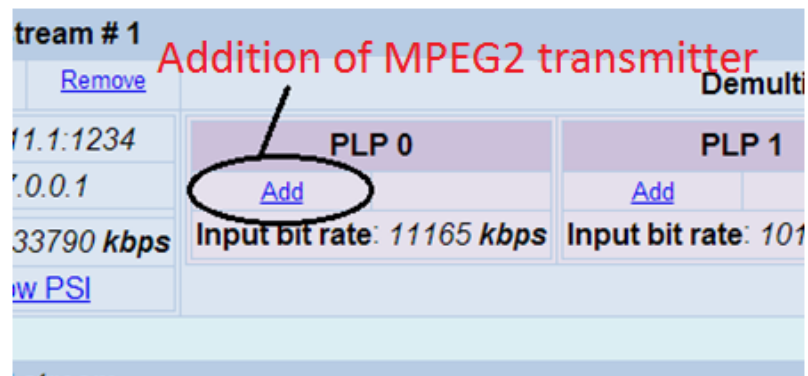


Fig. 5 Addition for MPEG2 transmitter

Pop-up dialog will show up as shown on Fig. 6:

Add New IP Target

PLP ID:

Remote IP Address:

Port:

Local Interface:

SSM:

IMR Source IP address:

TTL:

Fig. 6 Dialog for addition of IP MPEG2 transmitter

- PLP ID – assign ID for substream in T2-MI stream;
- Remote IP Address – destination IP address for broadcast;
- Port – port for transmission;
- Local Interface – address of local subnet for transmission;
- SSM – turns on/off data reception of multicast stream with filtering by data source according to standard RFC-4607 Source-Specific Multicast for IP;
- TTL – Time to live (lifespan of packet).

After addition of IP MPEG2 transmitter interface will display output bit rate in «Output bit rate» field, and also destination address for output stream as shown on Fig. 7:

stream # 1		Demul	
Remove			
11.1:1234	PLP 0		PLP 1
7.0.0.1	Edit	Remove	Add
34155 kbps	224.1.11.2:1234		Input bit rate: 10
Show PSI	127.0.0.1		
	TTL: 1		
	Input bit rate: 11285 kbps		
	Output bit rate: 11284 kbps		

Fig. 7 Addition form of output IP MPEG2 stream

There are following option, applicable to outputted MPEG2 stream:

- Edit – edit destination address for stream;
- Remove – removal of output stream.