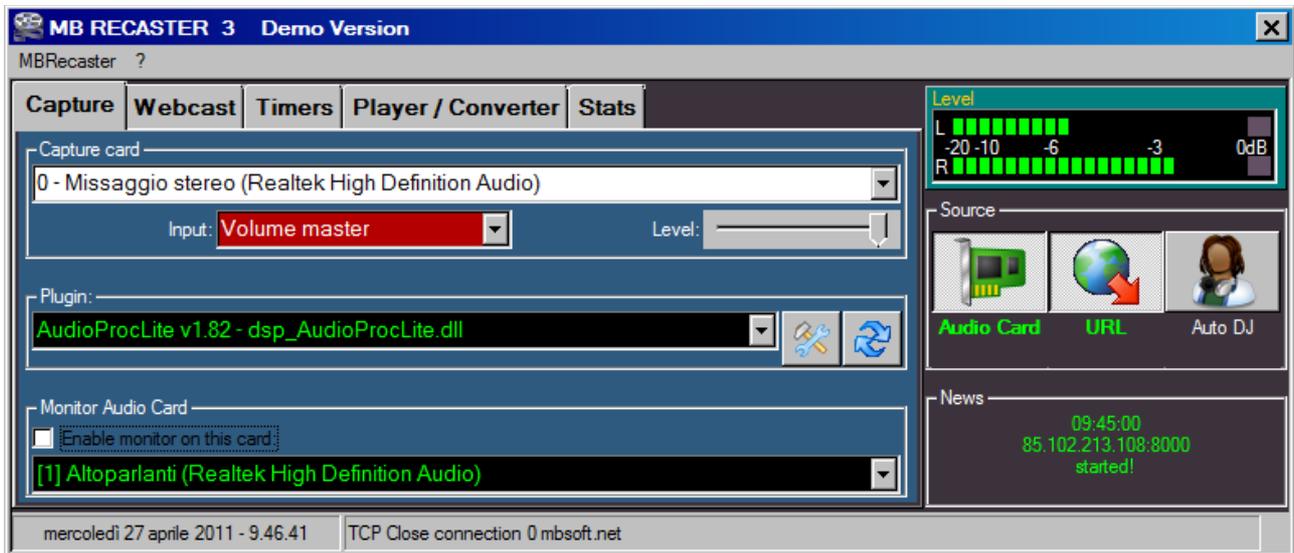


## MB RECASTER 3



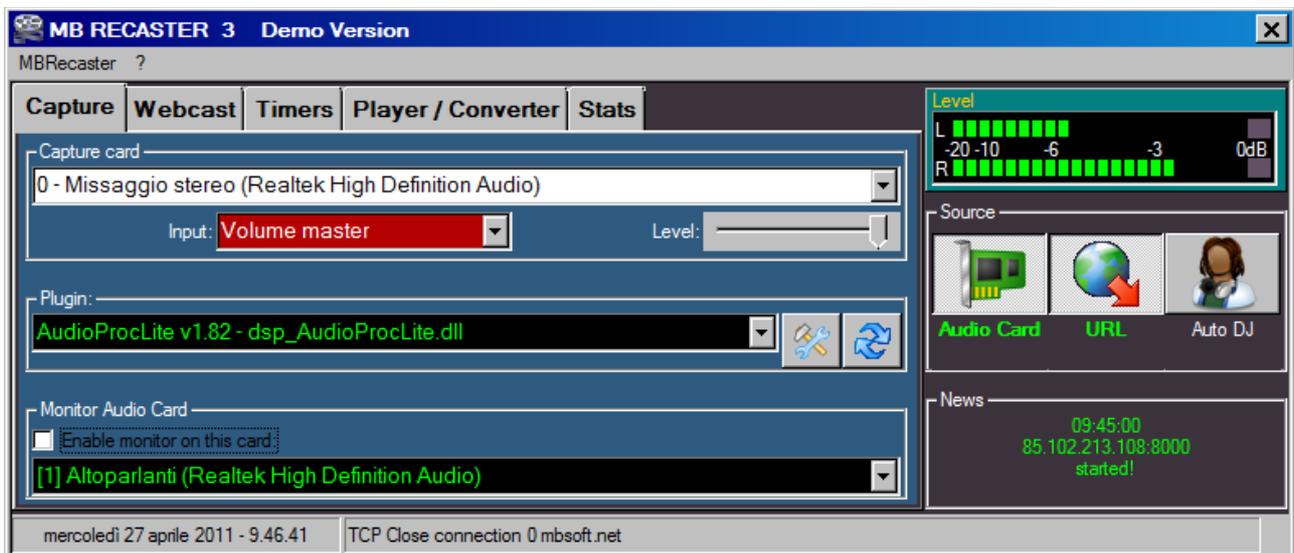
### MB RECASTER is a multifunction audio tool featuring:

- Capture audio from any sound card or any internet URL stream (Shoutcast, Icecast, Windows Media)
- Internal Auto DJ: play and mix random files from up to 4 different folders. Automatically remove gap from begin/end of files.
- Support DSP Plugins for audio processing (AudioProc, XAP, Jammix, etc)
- Stream the final signal to any ShoutCast, IceCast or Windows Media Server with up to 4 independent encoders reading metadata from an external text file.
- Windows Media Pull mode allow to stream over the internet directly with your internet connection (no external server required, public ip and free tcp input port required)
- Integrated Audio Logger: non stop record saving up to 180 days with automatic deletion of older files.
- Recording scheduler: schedule up to 255 record timers by time, day and/or date. Each record can also be started/stopped usign external relay (require Velleman USB k8055 Interface)
- When a record end, automatically upload the file to a FTP server
- Convert any audio file to the following formats; MP3, OGG, WMA, WAV, AAC, ACM. Allow to convert the full audio length or a selected range.
- Send email notifications when “missing audio” or “connection lost”

### Free Demo Version has the following limitations:

- Auto DJ play function is limited to 1 hour and must be manually reactivated once expired
- All the recorded files are created with the fixed name “Demo Version”
- “MB RECASTER” is added to the title of webcast streams
- FTP and Email functions are disabled

## CAPTURE



From the **capture** window you can Record/Stream audio from any **sound card**, **url** or use the internal **Auto DJ** to play your music and jingles.

To capture audio from your computer or from a microphone or line input click **Audio Card** and choose a **Capture Card**, an **Input** channel (Windows XP only) and set the the audio **Level**. If you want to capture all the sounds that are played on the computer you should choose the “stereo Mix” device or channel.

Sometimes in Windows 7/Vista, first you must enable this device in the Windows Control Panel / Audio and restart MB RECASTER.

To capture audio from an internet stream click **URL** and enter the stream internet address; direct ip:port, asx, pls, m3u playlist are accepted. Ex: 123.456.789.123:8000, [www.myradio.com/listen.pls](http://www.myradio.com/listen.pls), [www.myradio.com/listen.asx](http://www.myradio.com/listen.asx), etc  
Once you entered the address click the **CONNECT** button to start the stream.

To play your own audio files click **Auto DJ**, you will be prompted to select from 1 to 4 folders of audio files on your computer. Note that subfolders are not touched by this function, so you should take care to put all the desired files into a single folder. Auto DJ will cycle through any folder choosing one random file.

The **Plugin** selector allow you to select one DSP audio processor. The **configuration** button open the setup window of the selected plugin. The **refresh** button renew the list of plugins in case you added new DSP in MBREcaster\Plugins folder.

The **Monitor Audio Card** selector allow you to choose an audio card to listen the mixing channel of MB RECASTER. Do not “Enable monitor on this card” when you're capturing audio from the “Stereo Mix”

## WEBCAST

MB RECASTER 3 Demo Version

MBRecaster ?

Capture **Webcast** Timers Player / Converter Stats

Metadata: **BROTHERS JOHNSON - STOMP [1980] - seguira': DIROTTA SL**

Current connections: **0** Upload bandwidth: **112**

Encoder	Server	Profile	Curren...
1	85.102.213.108:8000	WMA 48k Stereo 27/04/11 09.45	0
2	http://mbssoft.net:3762	MP3 48k Mono 27/04/11 09.47	0
3	http://wm1.newradio.it/cast:8078	WMA 64k Stereo 27/04/11 09.48	
5	Demo Version.wma	WMA 20k Mono 27/04/11 09.49	-01:40
6	Demo Version.wma	WMA 64k Stereo 27/04/11 09.49	-01:21
7	Demo Version.mp3	MP3 128k Stereo 27/04/11 09.49	---:59

Level

L -20 -10 -6 -3 0dB

R

Source

Audio Card URL Auto DJ

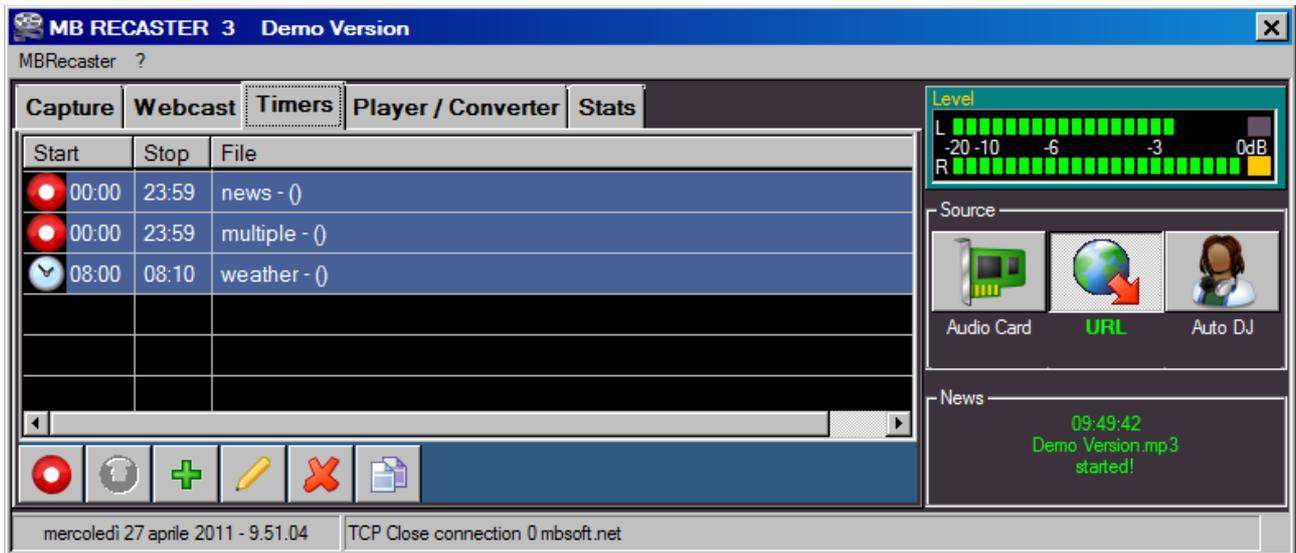
News

09:49:42  
Demo Version.mp3  
started!

mercoledì 27 aprile 2011 - 9.50.42 TCP Close connection 0 mbssoft.net

The WEBCAST window show all running encoders, current Metadata, connections and upload bandwidth. To start or stop a webcast encoder you must enter menu MBRecaster\Setup and Enable\Disable the target encoder. To start or stop a file encoder click on Timers, select the target encoder and click the RECORD or STOP button.

## TIMERS



The TIMERS window allow to add/delete/modify scheduled records.

Click **RECORD icon** to start record immediately the selected timer disregarding the scheduled start time

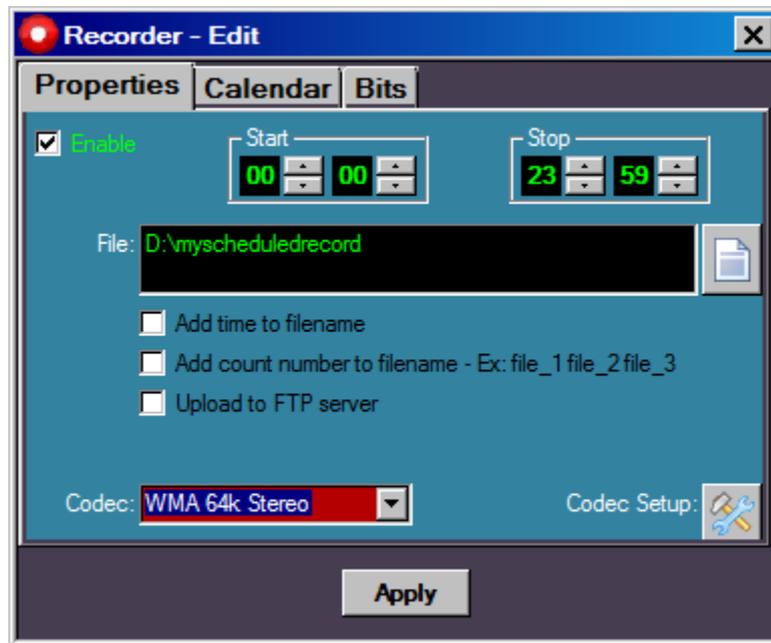
Click **STOP icon** to immediately stop a running timer. The timer will also be disabled and will never restart automatically until reenabled from the EDIT window.

Click **EDIT icon** to change the properties of the selected timer

Click **DELETE icon** to remove the selected timer from the list.

Click **+** to add a new scheduled Record

## EDIT TIMER



From the properties window it's possible to set the **start** and **stop** time (24h format), to choose a **filelocation and filename** for the timer and to specify the following options:

- **Add time to filename** – the program will automatically add the current time to the filename (the time will be rounded to the nearest quarter). Ex: if a timer with filename “dance” will start at 10:10 the recorded filename will be dance1015
- **Add count number to filename** – the program will automatically add a counter to the filename. Ex: having a timer with filename “dance”, the first recorded file will be dance\_1, the second dance\_2 and so on. The counter automatically increases. To reset the counter you have to delete the existing files from the destination folder.
- **Upload to FTP server** – once finished the recorded file will be uploaded to the FTP server (that you can setup using menu MBRecorder/Setup/FTP)

The **Codec** selector allows to choose the recording codec for this timer. When choosing ACM codec you should also click the **Codec Setup** icon to set more codec details

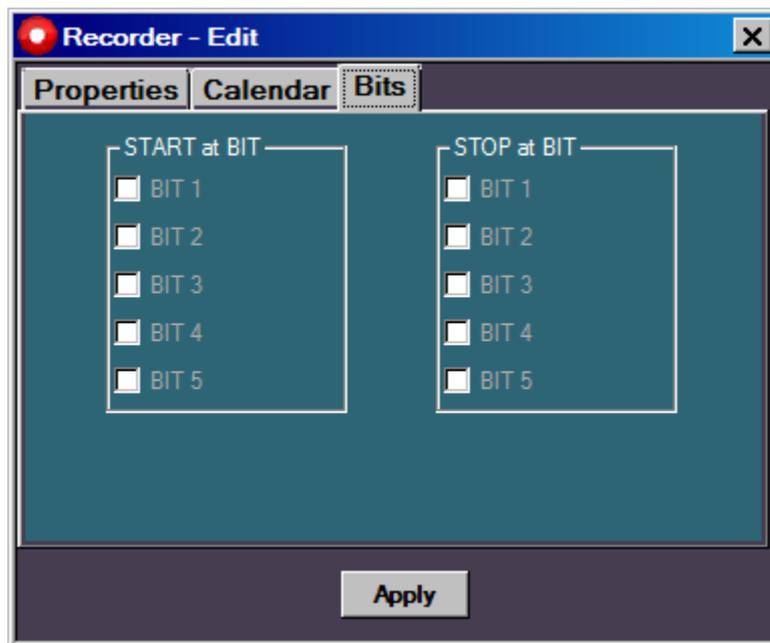
## CALENDAR



The Calendar allow to set the weekdays, months, initial and expire date and the following options:

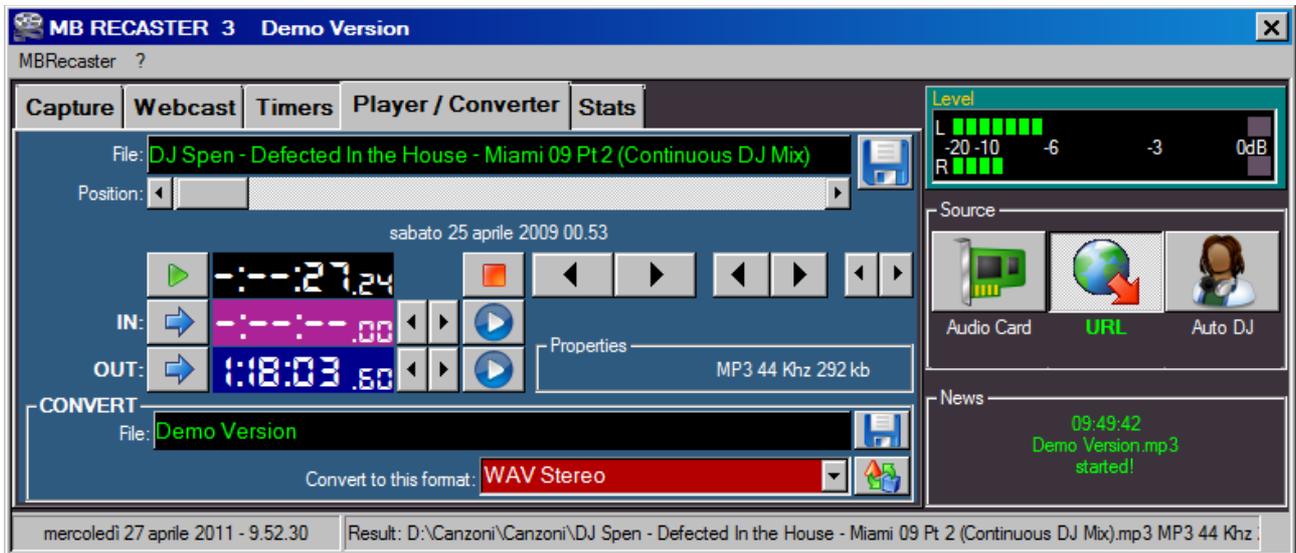
- |                        |   |                     |
|------------------------|---|---------------------|
| ED = Even days only    | - | OD = Odd days only  |
| EW = even weeks only   | - | OW = Odd weeks only |
| €€ = working days only | - | ++ = Holidays only  |

## BITS



The **BITS** window allow to synchronize start and stop of this timer throught the Velleman USB I/O Card K8055(menu MBREcAster\Setup\Options\flag USB Velleman k8055 should also be enabled) or through bits sent by MB STUDIO radio automation software.

## PLAYER / CONVERTER



In this window you can select an audio file, set IN point, OUT point and convert it to another format. You can also fine tune and prelisten the IN/OUT points.

The left/right arrow allow to move the play position by 1 hour, 1 minute or 1 second

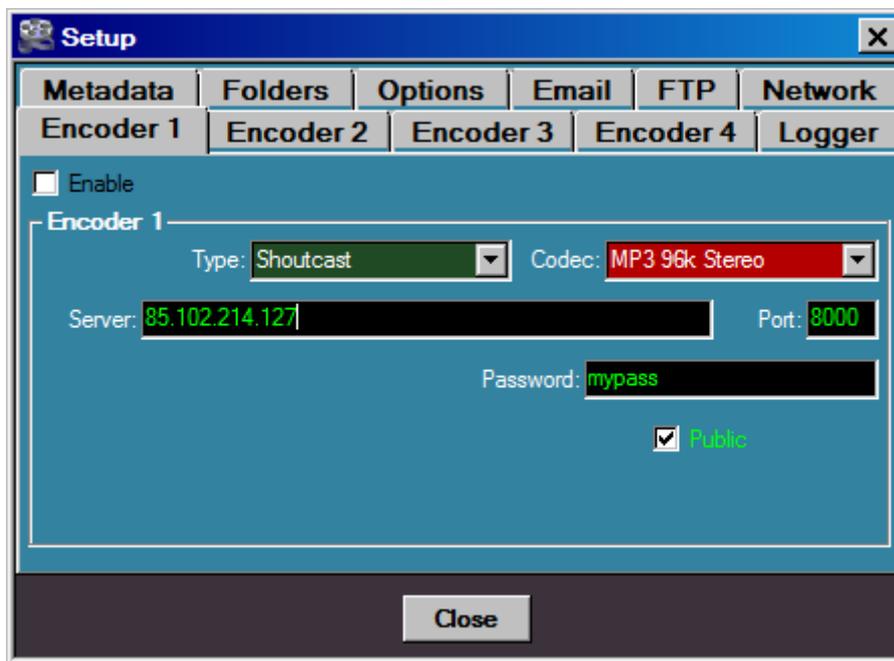
To convert the fileclick the file selector in the CONVERT frame and choose the location and the filename for the converted file then click the CONVERT icon.

## SETUP – ENCODER

You can set up to 4 encoders for webcast streaming. Using **Type** selector you can choose between:

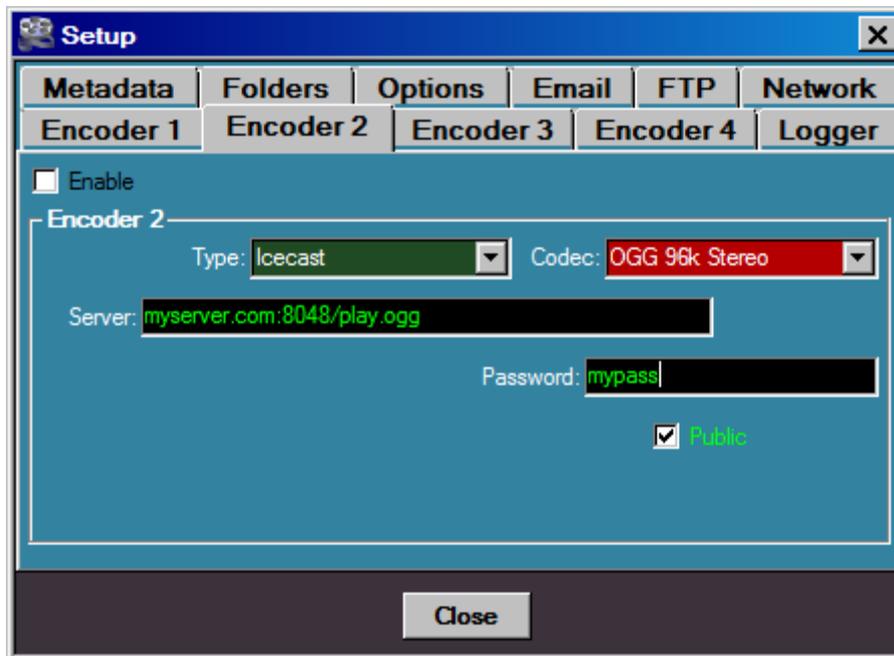
- **Shoutcast** – connect to a shoutcast server
  - **Icecast** – connect to a icecast server
  - **Windows Media Pull** – receive connections directly on your computer
  - **Windows Media Push** – connect a Windows Media Server
- 

### SHOUTCAST ENCODER SETUP



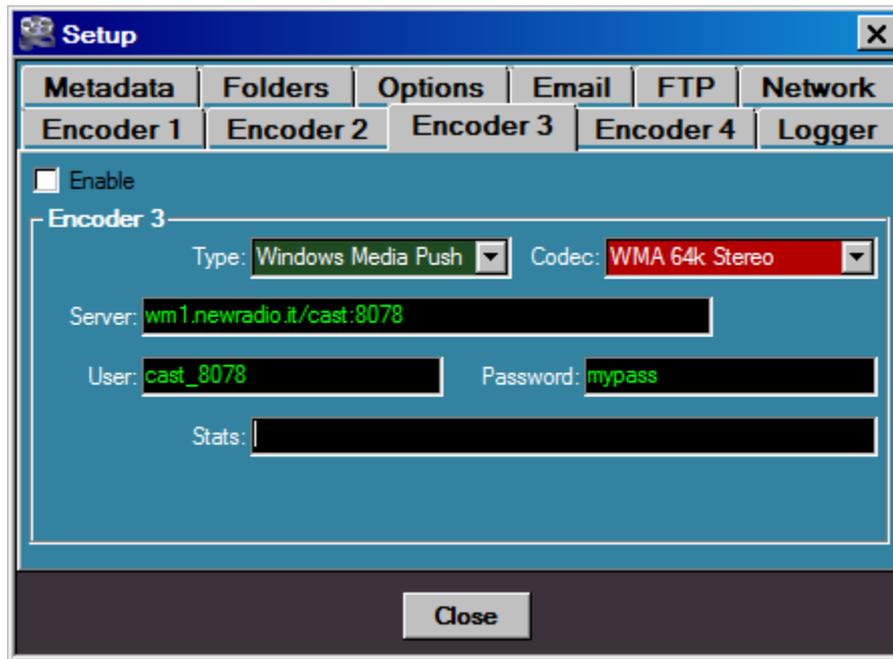
- Set Type to shoutcast
- Choose a Codec (Shoutcast only accept MP3 or AAC+ codec)
- Enter the server address
- Enter the port number
- Enter the password
- Enable the flag “Public” flag if you would like your station to be listed at [www.shoutcast.com](http://www.shoutcast.com)
- Enable the encoder by click “Enable” flag

## ICECAST ENCODER SETUP



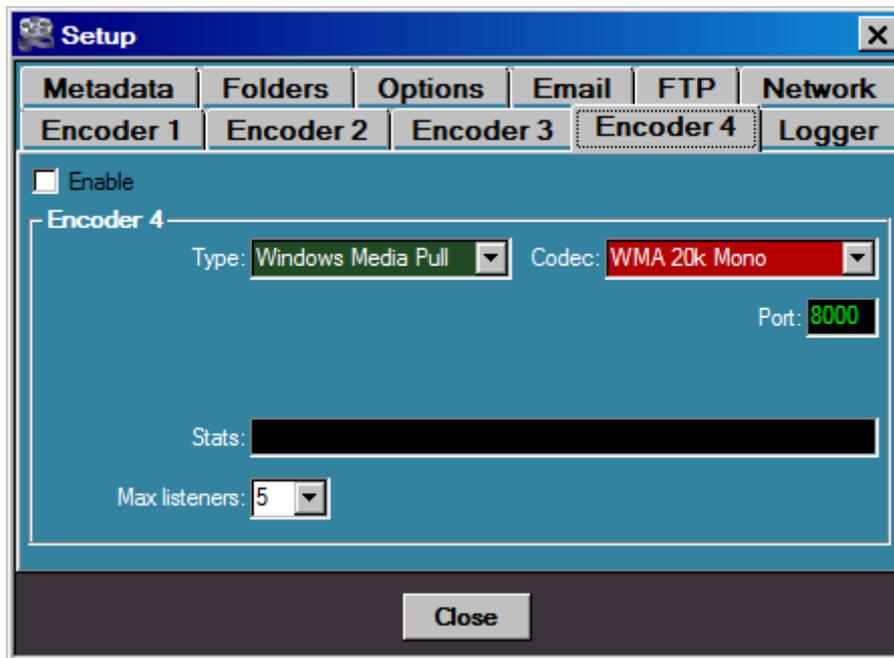
- Set Type to Icecast
- Choose a Codec (Icecast only accept OGG or MP3 or AAC+ codec)
- Enter the server address, port and mounting point in the Server text box
- Enter the password
- Enable the flag "Public" flag if you would like your station to be listed at dir.xiph.org
- Enable the encoder by click "Enable" flag

### WINDOWS MEDIA PUSH ENCODER SETUP



- Set Type to Windows Media Push
- Choose a Codec (only WMA codecs are accepted)
- Enter the server address and publishing point in the Server text box
- Enter the user and the password
- Enable the encoder by click “Enable” flag

## WINDOWS MEDIA PULL ENCODER SETUP



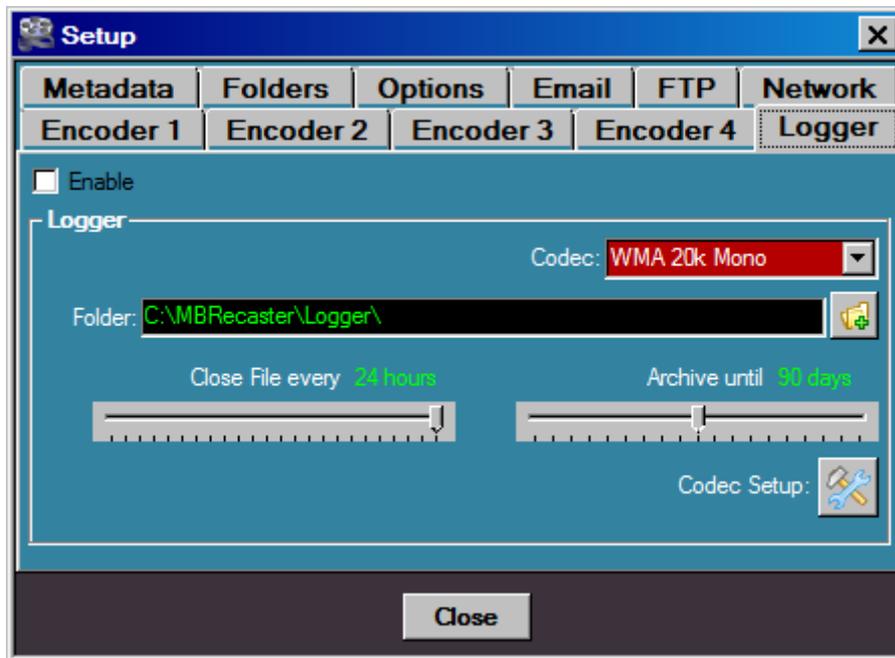
- Set Type to Windows Media Pull
- Choose a Codec (only WMA codecs are accepted)
- Enter the port number at your choice (the port must be unused by other programs and must be routed from the router to this computer)
- Select the max number number of concurrent listeners (min 1 – max 50)
- Enable the encoder by click “Enable” flag

Note that you need a public IP in order to be listened by outside of your LAN network.

Use the **menu' ? / what is my IP** to know your current internet IP address and the **menu' ? / TCP Port test** to check if the port is correctly open and mapped to this computer.

If all is ok, give the following url to your listeners `mms://yourip:port`, entering that address in windows Media Player / Open URL they should be able to listen your stream.

## LOGGER



This window allow to start a non stop audio record.

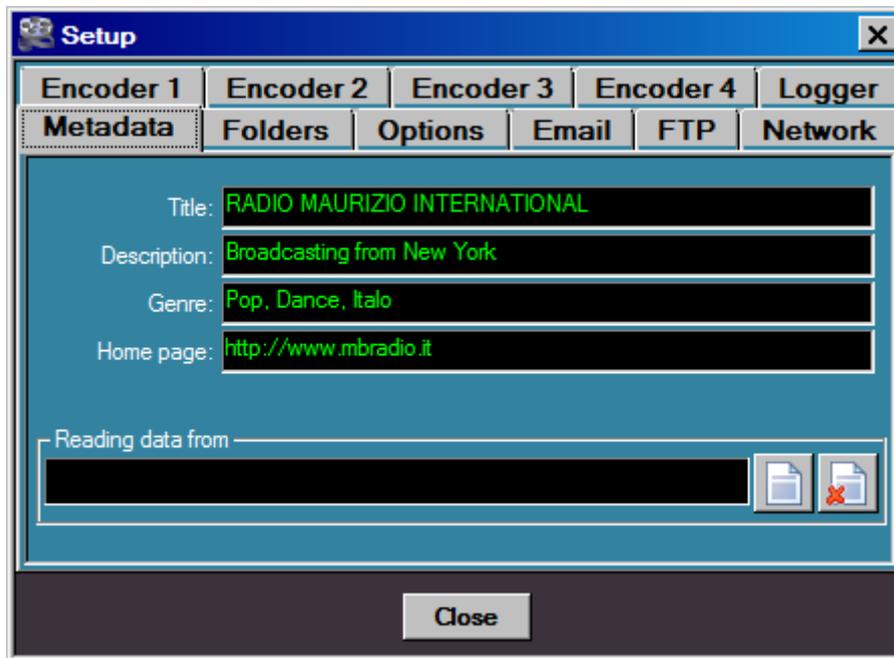
The files will be saved in the selected Folder.

The length of each file could be set from 1 hour to 1 day and up to 180 days can be archived.

Once the days length is reached the older files are automatically deleted.

The codec setup icon should be used when ACM codec is set.

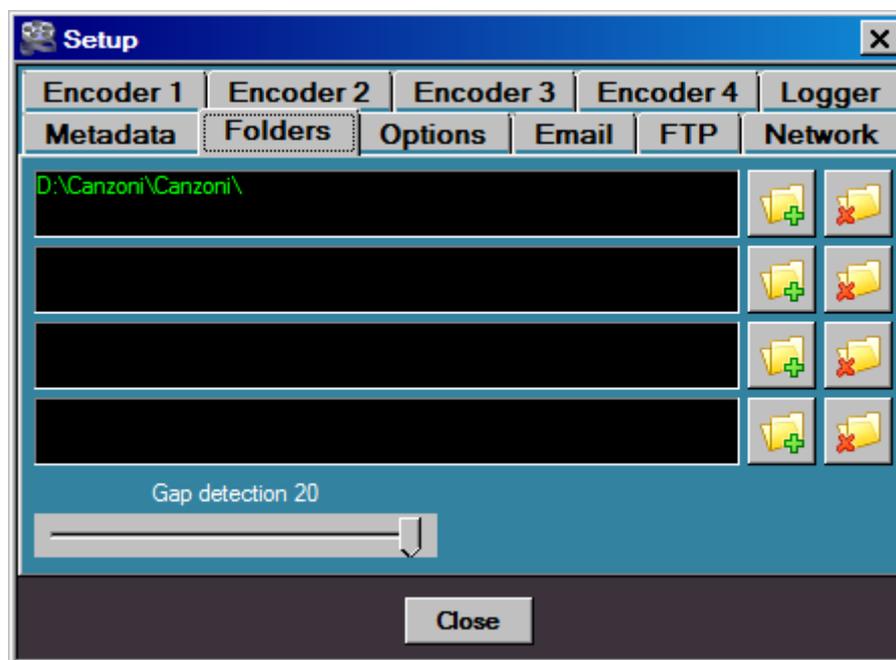
## METADATA



This window allow to setup the webcast informations like stream title (usually your station name), a description text (usually your station slogan), a list of genres, and the home page of your station.

In **Reading data from** you can set a text file to read the current metadata (usually the title of the current playing song or show). Most of radio automation softwares produce a text file that is costantly updated. MB RECASTER autodetect file changes and reload the file at every change. External metadata are loaded only when capturing from audio card.

## FOLDERS



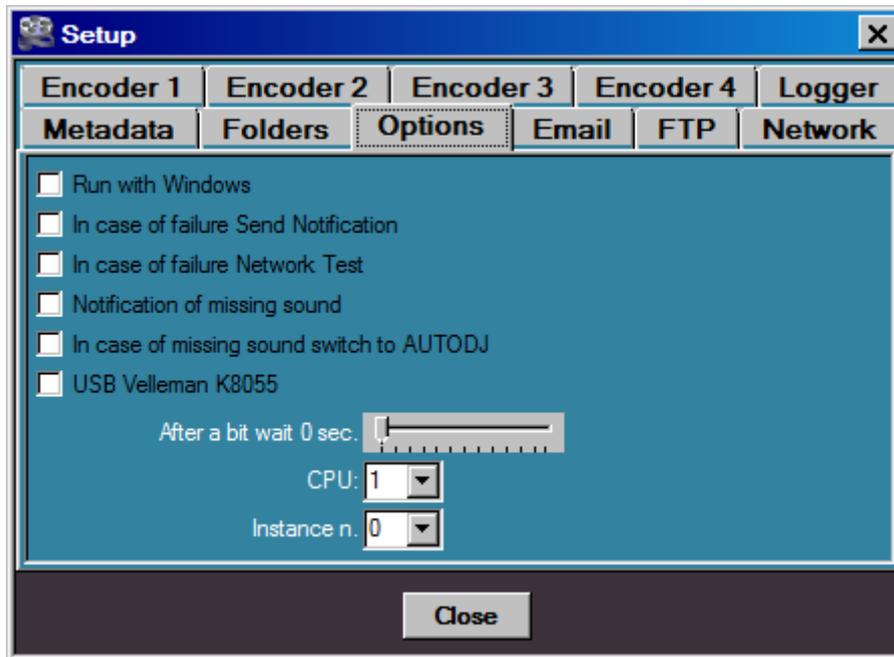
Here you can set up to **4 folders** containing audio files that will be played by Auto DJ function. The folders will be used in sequential order while the files will be played in random mode.

All the files will be played once before the queue is restarted.

Note that internal subfolders are not considered by the player so you should keep your files together in the selected folders. Example: you can set a folders of songs in the first position, a folder of jingles in the second position, another folder of songs in the third position and a folder of advertisements in the fourth folder.

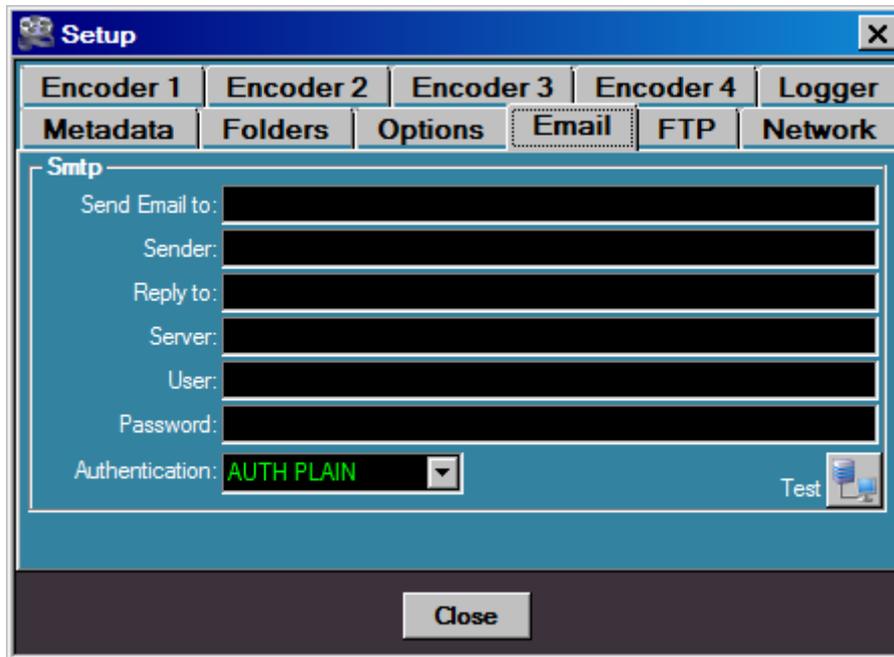
The **Gap Detection** slider allow to set an automatic gap killer used to remove near silence from the beginning and end of tracks. 0 means the gap detection is disabled while 20 means the gap killer will set the start/stop position at a high level of sound. For faster performance, the gap detector only check the first and last 15 seconds of the track, so larger gaps are not detected.

## OPTIONS



- **Run with windows** – automatically start the program when windows startup
- **In case of failure Send notification** – when a connection die you'll be notified by an email
- **In case of failure Network Test** – when a connection die or slow down the ping and tracert are automatically executed (you'll see some DOS Type windows displaying on the screen). The results are saved in the debug folder. You can use the ping and tracert results to narrow down the problems between your computer and the remote server.
- **Notification of missing sound** – when capturing audio from audio card or URL you'll be notified by email if audio is missing.
- **In case of missing sound switch to Auto DJ** – when there is no sound incoming from Audio Card or URL automatically switch to Auto DJ mode and revert back to the previous source when the sound is back again
- **USB Velleman K8055** – activate the BIT detection on the Velleman I/O USB card (see <http://www.velleman.eu/distributor/products/view/?id=351346>)
- **After a bit wait** – when a bit is received you can set a delay before the corresponding action take place.
- **CPU** – if your computer is a multicore CPU system you can set a different cpu to load. If you run multiple MB RECASTER instances on your computer, it's best to set a different CPU for each instance.
- **Instance n.** - when running multiple instances of MB RECASTER, each program must be set to a different instance number. If you use only one instance of MB RECASTER leave this value to 0. To use multiple instances you must purchase additional licenses.

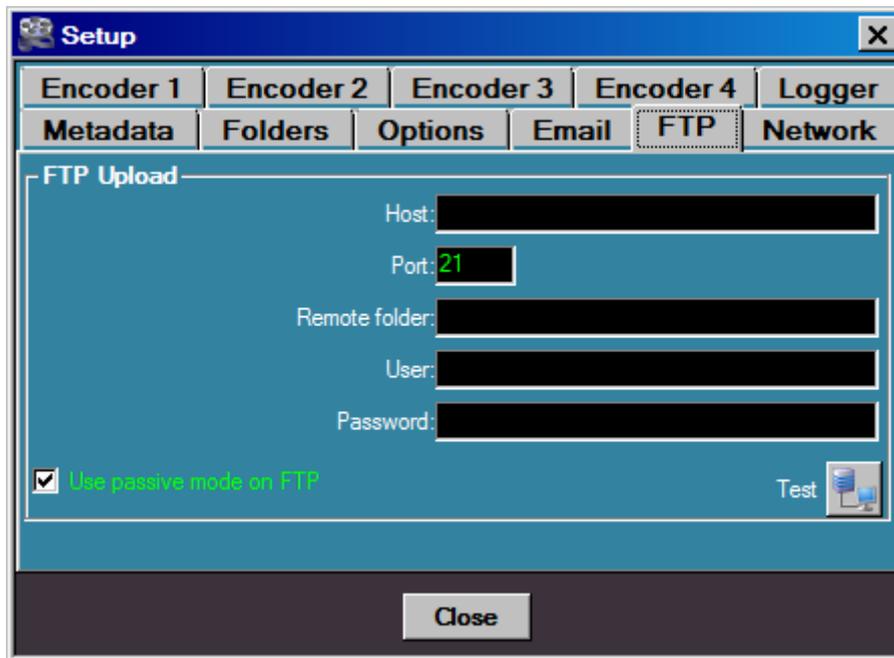
## EMAIL



Email service is used to send notifications about failures of webcast encoders or input missing sound.

- **Send Email to** – enter here the destination email address to notify the problem
- **Sender** – enter here your name or your station name
- **Reply to** – enter your email or the email of your radio station
- **Server** – enter the smtp server of your internet carrier. If the smtp port is different then 25 you can specify a different port number using the following syntax server:port
- **User/Password** – if your smtp server require authentication enter here username and password
- **Authentication** - if your smtp server require authentication select here the type of authentication to use. You can try all the 3 types to discover the one that work with your server
- **Test** – once entered all the required parameters click this button to test the smtp connection

## FTP

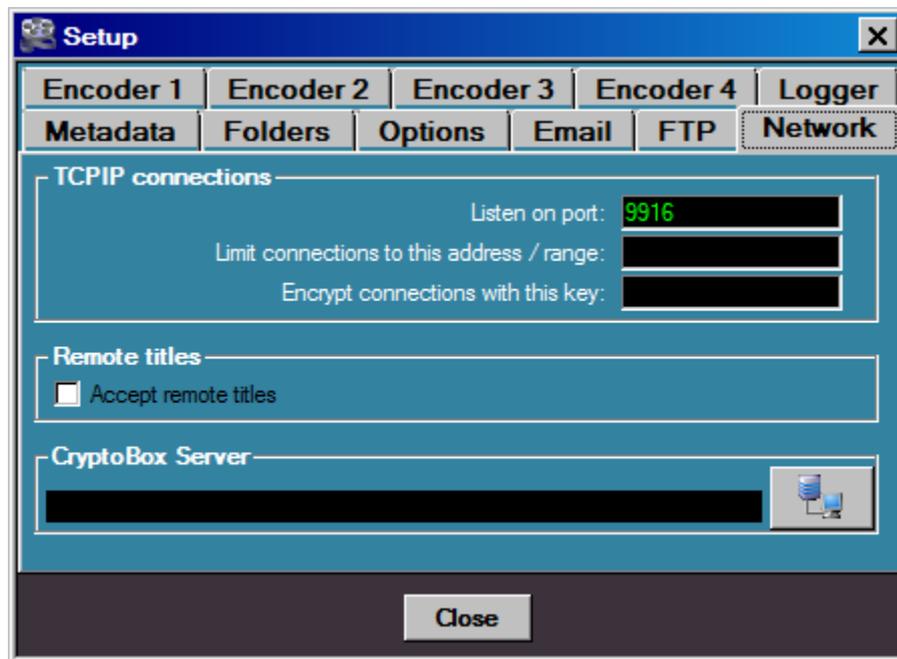


The screenshot shows a 'Setup' dialog box with a blue title bar and a close button (X) in the top right corner. Below the title bar is a tabbed interface with five tabs: 'Encoder 1', 'Encoder 2', 'Encoder 3', 'Encoder 4', and 'Logger'. The 'FTP' tab is selected and highlighted. Below the tabs is a sub-section titled 'FTP Upload' with a minus sign on the left. This section contains several input fields: 'Host:' (a blacked-out text box), 'Port:' (a text box containing the number '21'), 'Remote folder:' (a blacked-out text box), 'User:' (a blacked-out text box), and 'Password:' (a blacked-out text box). At the bottom left of the 'FTP Upload' section is a checked checkbox labeled 'Use passive mode on FTP'. At the bottom right is a 'Test' button with a small computer icon. Below the 'FTP Upload' section is a large grey 'Close' button.

The FTP service upload a record to your ftp server once the record finished (the timer must have the Upload to FTP flag switched on)

- **Host** - ftp server address or ip
- **Port** – the port number
- **Remote folder** – the folder where to store the file (ex: myrecords/ )
- **User / Password** – the account to access the ftp server
- **Use passive mode on FTP** – usually must be switched on if you're behind a router or firewall
- **Test** - once entered all the required parameters click this button to test the ftp connection

## NETWORK



This window allow to setup some advanced services.

MB RECASTER can receive some commands by MB STUDIO radio automation software using a TCP connection (current metadata or BIT signals).

- **Listen on port** – the port number to listen for incoming connections. If you plan to receive connections from outside your lan network remember to open and redirect that port from your internet router.
- **Limit connections to** – you can limit accept connections from a single IP or a range (ex: enter “192.168” if you plan to limit connections from 192.168.0.0 to 192.168.254.254
- **Encrypt connections with this key** – a password to protect the connection (remember to enter the same password into MB STUDIO External titles window)
- **Remote Titles** – activate this option if you accept to receive the current metadata title from MB STUDIO
- **CryptoBox server** – this box is used for emergency license activation udner our instructions. Unless you have specific instructions, always leave blank this box.