How to install the SHOUTcast server with Barix Instreamer and Barix Exstreamers



The SHOUTcast server is very nice tool to multiply your audio stream to many listeners (PCs) or Exstreamers. This software is for free and can be downloaded from <u>www.shoutcast.com</u>. The Instreamer firmware 1.14 (2005/06/20) or higher supports the SHOUTcast authentication, so it is possible to stream directly to the SHOUTcast server and to be a source for the SHOUTcast (relay) server.

The Instreamer itself supports up to 6 http MP3 audio streams at the same time, if this is not sufficient then SHOUTcast might be a good solution for you.

The SHOUTcast software is available for almost all Windows operating systems, Linux, Solaris and Mac.

On the SHOUTcast server

configuration you can define how many users can listen the stream (default is 60) or the used stream quality. The limits are depending from the performance of your system and your network.

It has a nice administration GUI to set restrictions or for control purposes.



Software Installation

If you will only use the Instreamer as a source for the SHOUTcast server then you need to download (from <u>www.shoutcast.com</u>) and to install only the SHOUTcast server software.

server Hide Monitor Edit log E	zdit config	Abou
*****	***************************************	
* SHOUT cast Distributed Network A	Audio Server	_
* Copyright (C) 1998-2004 Nullsoft, I	nc. All Rights Reserved.	
"Use sc_serv rilename.ini to spec	ary an ini file.	
vent log:		
.01/28/05@11:26:23> [SHOUTcas	t] DNAS/win32 v1.9.4 (Mar 17 2004) starting up	
:01/28/05@11:26:23> [main] loade	zing (usermax:60 porthase:8000)	
01/28/05@11:26:23> [main] No ba	an file found (sc_serv.ban)	
:01/28/05@11:26:23> [main] No rip	o file found (sc_serv.rip)	
.01/28/05@11:26:23> [main] openi	ng source socket	
.01/28/05@11:26:23> [main] sourc (01/28/05@11:26:23> [main] openi	e mead starting ng client socket	
01/28/05@11:26:23> [main] Client	Stream thread [0] starting	
:01/28/05@11:26:23> [source] liste	ening for connection on port 8001	
.01/28/05@11:26:23> [main] client	main thread starting	
		¥
9		(F.
1.9.4/win32	01/28/05 11:26:33 (0/60) (no source

Software Configuration

Now start the SHOUTcast server and click on "edit config".

All settings are very well documented in the sv_serv.ini. I have used the configuration you can see on the right side (all comments are removed).

After your changes save and close the config file and close the application by clicking the "kill server" button. Then start it again.

MaxUser=60
Password=changeme
PortBase=8000
LogFile=sc_serv.log
RealTime=3
ScreenLog=1
ShowLastSongs=10
W3CEnable=Yes
W3CLog=sc_w3c.log
SrcIP=any
DestIP=ANY
Yport=80
NameLookups=0
AutoDumpUsers=0
AutoDumpSourceTime=3000
ContentDir=./content
TitleFormat=Stefan's Test Station
PublicServer=never
AllowRelay=Yes
AllowPublicRelay=Yes
MetaInterval=8192

Instreamer Configuration :

Have look on the firmware version, this or a newer firmware is required ! Important is also to define the destination where the Instreamer should the stream to . The default port number for the SHOUTcast server is port 8000.

SETTINGS DEFAULTS	DEVICE MAC 0008E10016FB Firmware VB1.14 (06/20/2006) THINK FURTHER Web application VB1.06 Setup V01.05 V01.05
SETTINGS	
NETWORK AUDIO	STREAMING I/O CONTROL SERIAL SECURITY
Own Name Streaming mode	send always
Trigger Level	1000 only for mode "send on Level"
Pre Trigger Start	0 msec
Post Trigger Play	1024 msec
Buffer Underrun Mode (TCP)	skip 💌
Stream Packet Strategy	optimal package 💌
UDP Tx Source Port	0
Sync Port	0
Radio Path	/xstream
Stream to # Conn. type 1 Shoutcast source 2 Internet Radio	IP # # # Port # 192 . 168 . 110 . 173 : 8000 ▼ 0 . 0 . 0 : 0

The SHOUTcast server requires a password authentication for all streaming sources. This password you have to define in the SECURITY section of the Instreamer's web configuration.

default password: changeme

a Re in		E	MAC 0000	54004550
		R IX ™	Firmware VB1. Web application VB1. Bootloader V99	14 (06/20/2005) 09 06
(SETTINGS) (DEFAULTS)	REBOOT I UP	ATE I (HOMI	Setup VU1.	o
SETTINGS				
NETWORK AUDIO	STREAMING		L <u>SERIAL</u>	SECURITY
Level	Password	Status		
Telnet/Serial Configuration		not set		
Save Configuration		not set		
View Configuration		not set		
Control/Command		not set		
Listening		not set		
Ice/Shoutcast	Xolokokokokok	set		
6 (User)		not set		
Apply Cancel				

Extreamer Configuration

How to listen the SHOUTcast server with a Barix Exstreamer ?

The configuration is very simple, only a few STREAMING settings are necessary .

You have to use: **Mode: 3 Streaming Puller**. The parameters "Server IP Address" and "Server Port" are also needed and must point to the SHOUTcast-server-PC.

Ready, now you can enjoy to the Instreamer MP3 audio stream over a SHOUTcast server.

SETTINGS		DEVICE CONFIG BAR THINK		N Applicationtype MAC Firmware Web applicatio Bootloader Setup	 Standard 0008E10 VB6.04 (n VB2.04 V99.06 V01.04) 01809 11/12/2004)
NETWORK STREAMING	<u>AUDIO</u>	PLAYLIST	WLAN	CONTROL SI	<u>ERIAL</u>	<u>SECURITY</u>
Server Mode Server IP Address Server Port Server Path Playlist List Path	Change 3 Streamin 192 . 1 8000 / /playlist.ht	to CIFS/Saing Puller 168 . 110	mba • . 173			

SHOUTcast with the DSP plug-in (DJ-software for Winamp)

The SHOUTcast server can manage different sources. If your SHOUTcast server should play also some MP3 or WAV audio files which you have stored on your PC then you will additional require also Winamp (www.winamp.com) and the SHOUTcast DSP plug-in (www.shoutcast.com). The SHOUTcast DSP is a Winamp plug-in and must be installed in the Winamp program folder .

The DSP plug-in can run on the same PC than the SHOUTcast server is running, but it must not. The SHOUTcast DSP plug-in is not needed if you will use only a Instreamer as a source. You need this only if you will create MP3 / WAV playlists for your SHOUTcast server.

After the installation start Winamp and go to "OPTIONS" – "Preferences" – "DSP/Effect" and click on "Nullsoft SHOUTcast DSP". This will pop up the configuration and monitor of SHOUTcast source . Then close the "Preferences", the configuration window will remain open.

	SHOUTcast Source	
Winamp Proferences Winamp Pro General Preferences File Types Playlist Titles Video Global Hotkeys Media Library CD Ripping Skins Classic Skins Input Output Visualization DSP/Effect plug-in Broden Skins Plug-ins Input Output Visualization DSP/Effect General Purpose Plug-in module: Nullsoft SHDUT cast Source	Main Dutput Encoder Input Output 1 Status Not Connected Output 2 Output 3 Output 4 Output 5 Connect at Statup Connect Connection Yellowpages Output Configuration Address Statup Image: Statup Port Password Encoder 8000 Image: Statup Image: Statup ✓ Automatic Reconnection on Connection Failure Reconnection Timeout 30 Seconds Seconds	ay Options View Help U OP OF

There go to "Output" – "Connection" – "Address" and define the IP address of the PC where the SHOUTcast server is installed. The "Port" and the "Password" must also fit to the settings in the sr_serv.ini . Port 8000 is default for outgoing streams the next port is automatically used for incoming streams from the server (8001 in this case). The strange thing is you have to define port 8000 also

for the source but in the network I can see it is using port 8001 for the source.

The "Encoder" setting can be changed optionally if needed.

Start the stream to the server by clicking the "Connect" button.

Then you can choose your favourite playlists, MP3 files also radio streams in the Winamp Playlist Editor and click on the play icon.

Ready !! Now you can connect your clients / Exstreamers.

WINAMP	
Eile Play Options View Help	
* 80:00 Hars:	
	PD MD
	IG 🥖
B PLAYLIST EDITOR	
<u>File Playlist Sort Help</u>	
1. http://192.168.110.175/xstream	
2. ACDC - High Voltage	4:03
3. AC DC - Can't Stand Still	3:41
4. AC DC - All Screwed Up	4:36
5. ACDC - Thunderstruck	4:52
6. ACDC - Big Balls	2:37
7. ACDC - Live Wire	5:49
8. ACDC - T.n.t.	3:34
9. ACDC - Are You Ready	4:10
10. ACDC - She's Got Balls	4:50
Add BRem (ESel) (Misc) (100/38:12+) (D Manage F	lavlist)