

SIP ZONE PAGING

Application User Manual

Sip Zone Paging system

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Doc. release version	02.03.2018
BARIONET50_BRX_SS	V0111_20170302
SIP_BRX	V2.18t_20170302
BRX_PA	V0115_20170302

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REVISION TABLE

Date	Version	Who	Change
02/02/2018	1	GT	First version
02/03/2018	1.1	GT	Corrected PS16 keyboard layout

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1 Introduction

1.1 About "SIP ZONE PAGING"

SIP ZONE PAGING is a fully functional solution for building paging systems over IP-based networks with SIP integration. With SIP ZONE PAGING, BARIX devices can be easily configured and become part of the paging system, integrated with SIP phone system, in few minutes.



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Being designed with a server/client architecture, the SIP ZONE PAGING application is configured to run on Barionet 50 (server), on PS16 (Paging Station) and on Annuncicom 200 (SIP Gateway). As zone player can be used any Exstreamer/Annuncicom device with BGM Client firmware or Streaming Client firmware.

1.2 Features

- server / client architecture
- maximum 8 Paging Station (PS16) / SIP Gateway (Annuncicom 200) devices
- 90 zones maximum (multicast/unicast)
- 10 zones + All Zones callable from Paging Station (PS16)
- 10 + 80 zones + All Zones callable from SIP phones
- 7 zones concurrent paging from SIP
 Phones
- busy zone indication by led (PS16) and SIP Messages (SIP Phone).
- chime tone
- optional Background Music and priority message support on zone player (with BGM Client firmware or Streaming Client firmware).

1.3 Supported hardware

The SIP ZONE PAGING solution is designed to run on the following Barix devices:

- Barionet 50 (BRX_SS firmware)
- PS 16 (BRX_PA firmware)
- Annuncicom 200 (BRX_SIP firmware)
- Exstreamer 1xx/2xx/500/P5 (Zone Player with BGM Client firmware or Streaming Client firmware)

1.4 Additional documents

Technical specifications for the supported devices can be found in the corresponding product sheet which can be downloaded from <u>www.barix.com</u>.

2.1 Firmware installation

Install the firmware following the Update procedure from WEB UI (see *readme1st.txt* inside the firmware package).

Install the file as per below:

- barionet50_brx_ss_vxxx.bin on Barionet
 50
- *abcl_brx_pa_vxxx.bin* on PS16
- *abcl_sip_brx_vxxx.bin* on Annuncicom 200
- Streaming Client or BGM Client (compound.bin) on Zone Player

After update perform a "Factory Defaults Reset".

2.2 Barionet 50 configuration

The Barix Status Server (BSS) is the main component from the Barix SIP Zone Paging system and it's responsible for maintaining the status of the Paging Stations (the 4 PS16 and the 4 SIP Gateway devices) and the selected zones, and distributing it to the paging stations to keep them in sync.

2.2.1 Network

IP Address

Enter the 4 values of the desired device IP address e.g.: "0.0.0.0" for automatic discovery (DHCP/Bootp, IPzator, AutoIP), or a specific IP for an internal LAN. Default: 0.0.0.0

Netmask

Enter the 4 values of the desired Static IP e.g.:"0.0.0.0" for a default Netmask depending on the used IP Address. "255.255.255.0" for a C class network

Gateway IP Address

Enter the 4 values of the desired Gateway IP address e.g.: "0.0.0.0" for no Gateway, or the IP of the gateway in your LAN Note: The Gateway has to be set only when connecting to other devices over the WAN (through a router). Default: 0.0.0.0

DNS server

In this field you can give the desired primary and alternative DNS IP address to be able to connect to URLs (e.g. <u>www.radio.com</u>). Example: "195.186.1.111" Default: 0.0.0.0

DHCP Host Name

Name of the device sent in DHCP request. If left empty, a name based on the device's MAC address is generated automatically. Enter up to 15 Characters.

2.2.2 Application Setup

Status Messages Address

Configure here the address to which the Paging Stations shall listen for status messages sent by the Barix Status Server. Default: 224.1.3.55:6667

Request Messages Address

Configure here the address to which the Barix Status Server is listening for request messages from the Paging Stations. Default: 224.1.2.55:6666

Debug Messages

Enable or disable debug syslog messages to be broadcasted. Use this feature only when experiencing problems. Default: Disabled

2.2.3 Status page

In the status page it's possible to see in real-time the status of Paging Station / SIP Gateway (Offline/Idle/Selecting/Paging) and of zones (free/selecting/busy).

					PAGING STAT	IONS STATUS					
PA Station	1 PA	Station 2	PA Statio	n 3	PA Station 4	PA Station 5	5 PA	Station 6	PA Statio	n 7	PA Station 8
Offline		Offline	Offline		Offline	Offline		Offline	Offline	3	Offline
0		0	0		0	•		0	0		0
					Zones	s 1-10					
Analog zone	Zone ALL	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10
0	0	0	0	0	0	0	0	0	0	0	0
					Zones 1	101-180					
Zone 101	Zone 102	Zone	103	Zone 104	Zone 105	Zone 106	Zone 107	Zone	108	Zone 109	Zone 110
0	0			0	0	0	0			0	0
Zone 111	Zone 112	Zone	113	Zone 114	Zone 115	Zone 116	Zone 117	Zone	118	Zone 119	Zone 120
0	0			0	0	0	0			0	0
Zone 121	Zone 122	Zone	123	Zone 124	Zone 125	Zone 126	Zone 127	Zone	128	Zone 129	Zone 130
0	0	C		0	0	0	0			0	0
Zone 131	Zone 132	Zone	133	Zone 134	Zone 135	Zone 136	Zone 137	Zone	138	Zone 139	Zone 140
0	0			0	0	0	0			0	0
Zone 141	Zone 142	Zone	143	Zone 144	Zone 145	Zone 146	Zone 147	Zone	148	Zone 149	Zone 150
0	0			0	0	0	0			0	0
Zone 151	Zone 152	Zone	153	Zone 154	Zone 155	Zone 156	Zone 157	Zone	158	Zone 159	Zone 160
0	0	(0	0	0	0	(0	0
Zone 161	Zone 162	Zone	163	Zone 164	Zone 165	Zone 166	Zone 167	Zone	168	Zone 169	Zone 170
0	0	(0	0	0	0	(0	0
Zone 171	Zone 172	Zone	173	Zone 174	Zone 175	Zone 176	Zone 177	Zone	178	Zone 179	Zone 180
0	0	(0	0	0	0	(0	0

2.3 **PS16 Paging Station configurations**

2.3.1 Network

Use SonicIP

If set to "yes", the device will announce its IP address over the audio output when the device boots up. Default: ves

IP Address

Enter the 4 values of the desired device IP address e.g.: "0.0.0.0" for automatic discovery (DHCP/Bootp, IPzator, AutoIP), or a specific IP for an internal LAN. Default: 0.0.0.0

Netmask

Enter the 4 values of the desired Static IP e.g.:"0.0.0.0" for a default Netmask depending on the used IP Address. "255.255.255.0" for a C class network

Gateway IP Address

Enter the 4 values of the desired Gateway IP address e.g.: "0.0.0.0" for no Gateway, or the IP of the gateway in your LAN Note: The Gateway has to be set only when connecting to other devices over the WAN (through a router). Default: 0.0.00

Primary DNS

In this field you can give the desired primary and alternative DNS IP address to be able to connect to URLs (e.g. <u>www.radio.com</u>). Example: "195.186.1.111" Default: 0.0.0.0

Alternative DNS

In this field you can type the desired alternative DNS IP address in case the primary DNS is not reachable. Example: "195.186.4.111" Default: 0.0.0.0

Syslog Address

Destination address for syslog messages sent by the BCL program via the SYSLOG command. Set this to your syslog logging machine, if your syslog messages are recorded centrally. If set to 0.0.0.0, syslog messages are broadcasted. Default: 0.0.0.0

DHCP Host Name

Name of the device sent in DHCP request. If left empty, a name based on the device's MAC address is generated automatically. Enter up to 15 Characters.

Web server port

Defines the port where the web server of the device can be reached. If set to "0" the default HTTP port (80) is used.

Default Ethernet Port

On devices with dual-ethernet connection this parameter selects the default port to be used. In most cases selecting ETH1 is suitable. Note that for the PS16, the PoE (Power-over-Ethernet) functionality is provided on the ETH2 connector for old device hardware versions only, otherwise, on new hardware, PoE is located on the ETH1 connector.

If you change this parameter do not forget to connect the ethernet cable to the proper port on the rear of the device.

NOTE: on devices with a single ethernet port select always ETH1. Selecting ETH2 makes the device inaccessible! Default: ETH1

2.3.2 **System**

Barix SIP Zone Paging v1.15 01.03.2017

Basic Settings		BARIN ID SYSTEM SETTINGS
Advanced Settings		BARK IF STSTEM SETTINGS
Network	Station ID	1 🗸
System	Play Chime on Paging	enabled 💙
Security	Debug Messages	disabled 🗸
Apply Cancel	PA Stations Address	224 . 1 . 3 . 55 : 6667
	Server Address	224 . 1 . 2 . 55 : 6666
	Zone Info Address	230 . 1 . 2 . 50 : 6000
		Zone Streaming Destinations
	Analog Zone	230 . 1 . 2 . 51 : 3030
	All Zones	231 . 1 . 2 . 50 : 3535
	Zone 1	224 . 1 . 4 . 61 : 3535
	Zone 2	224 . 1 . 4 . 62 : 3535
	Zone 3	224 . 1 . 4 . 63 : 3535
	Zone 4	224 . 1 . 4 . 64 : 3535
	Zone 5	224 . 1 . 4 . 65 : 3535
	Zone 6	224 . 1 . 4 . 66 : 3535
	Zone 7	224 . 1 . 4 . 67 : 3535
	Zone 8	224 . 1 . 4 . 68 : 3535
	Zone 9	224 . 1 . 4 . 69 : 3535
	Zone 10	224 . 1 . 4 . 70 : 3535

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Station ID

Set the ID (1-8) of the Barix Paging Station. Usually IDs 1-4 are used for PS16 Paging Stations, IDs 5-8 are used for SIP Gateway Paging Stations, but this can be always reassigned. Default: 1 (PS16 Station 1)

Play Chime on Paging

Enable or disable the chime to be send to the Zone Players when the paging starts. Default: enabled

Debug Messages

Enable or disable more verbose messages to be sent to the network via syslog. Default: disabled

PA Stations Address

Configure here the address to which the Paging Stations shall listen for status messages sent by the Barix Status Server. Default: 224.1.3.55:6667

Server Address

Configure here the address to which the Barix Status Server is listening for request messages from the Paging Stations. Default: 224.1.2.55:6666

Zone Info Address

Set the address to which the Paging Stations shall send SDP messages with their zone selection. Default: 230.1.2.50:6000

All Zone Address

Set the IP and port to which all the zones are listening to. The RTP stream sent to this address will be received by all zones. Default: 231.1.2.60:3535

Zones 1-10 Address

Set individual IP and port for IP zones 1-10. Default: 224.1.4.61-70:3535

2.3.3 Audio

Encoding

Choose between different encoding types and sampling frequencies ("µ-law" or "Alaw" at 8 or 24 kHz). Default setting is "µ-law 8 kHz".

Microphone Gain

Microphone gain dB, increase if your microphone is too faint, decrease if it's too loud or overdriven. Default: "21 dB".

A/D Amplifier Gain

A/D converter preamplification in dB. Increase if the audio signal too faint, decrease if it's too loud or overdriven. Default: "0 dB".

2.3.4 Security

Reset Function

Enable or disable the "Reset" function on the Reset button and on the WEB UI. In order to restart the device press the Reset button once. Default: "enabled".

Factory Defaults

Enable or disable the "Factory Defaults" function on the Reset button. In order to revert all settings to factory defaults keep the Reset button pressed until the red LED starts blinking (approx. 10 seconds). Default: "enabled"

Update Function

Enable or disable the WEB Update function of the device. If the Update function is disabled, the only way to update the firmware is to use the serial rescue. Default: "enabled"

Set Password

This is visible as long as no password is set.

Enter a password (up to 25 characters) and hit the "Apply" button. After the restart you should close the browser window and open a new browser window. You will be asked to supply user name and password. The user name can be omitted but the password has to be supplied in order to see the web configuration.

Old Password / New Password

These fields are visible as long as a password is set.

To allow free access (clearing the password) enter the old password and leave the field "New Password" empty. Enter the old password in the password field above the "Apply" button as well and then hit the "Apply" button.

After the restart you will not be asked for user name and password anymore. To change the password enter the old

password and enter the new password in the field "New Password". Enter the old password in the password field above the "Apply" button as well and then hit the "Apply" button.

After the restart you will be asked for user name and password. The user name can be omitted but the new password has to be supplied in order to see the web configuration.

2.3.5 Keyboard Layout

The PS16 Paging Station has 16 functional buttons, a flexible microphone, speaker, and 2 line LCD. The keys functions are the following:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5		Clear
Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	All Zones	PTT

2.4 SIP Gateway configurations

2.4.1 Network

Use SonicIP

If set to "yes", the device will announce its IP address over the audio output when the device boots up. Default: "ves"

IP Address

Enter the 4 values of the desired device IP address e.g.: "0.0.0.0" for automatic discovery (DHCP/Bootp, IPzator, AutoIP), or a specific IP for an internal LAN. Default: "0.0.0.0"

Netmask

Enter the 4 values of the desired Static IP e.g.:"0.0.0.0" for a default Netmask depending on the used IP Address. "255.255.255.0" for a C class network

Gateway IP Address

Enter the 4 values of the desired Gateway IP address e.g.: "0.0.0.0" for no Gateway, or the IP of the gateway in your LAN Note: The Gateway has to be set only when connecting to other devices over the WAN (through a router). Default: "0.0.0.0"

Primary DNS

In this field you can give the desired primary and alternative DNS IP address to be able to connect to URLs (e.g. <u>www.radio.com</u>). Example: "195.186.1.111" Default: "0.0.0.0"

Alternative DNS

In this field you can type the desired alternative DNS IP address in case the primary DNS is not reachable. Example: "195.186.4.111" Default: "0.0.0.0".

Syslog Address

Destination address for syslog messages sent by the BCL program via the SYSLOG command. Set this to your syslog logging machine, if your syslog messages are recorded centrally. If set to 0.0.0.0, syslog messages are broadcasted.

Default: "0.0.0.0".

DHCP Host Name

Name of the device sent in DHCP request. If left empty, a name based on the device's MAC address is generated automatically. Enter up to 15 Characters.

Web server port

Defines the port where the web server of the device can be reached. If set to "0" the default HTTP port (80) is used.

SNMP System Name

SNMP MIB entry for system name (system.sysName.0)

SNMP System Location

SNMP MIB entry for system location (system.sysLocation.0)

SNMP System Contact

SNMP MIB entry for system contact (system.sysContact.0) This parameter can be queried using any SNMP browser but can not be updated.

2.4.2 SIP Protocol Settings

Peer to Peer

Choose whether peer to peer calls should be allowed.

NOTE: When using P2P, the device uses always the default SIP (port 5060) and RTP (port 5004) ports. Make sure the remote peer is configured to listen on the default ports as well.

SIP Server (PBX) / Remote Peer

Enter either the hostname/IP address of a SIP server, or of the remote peer.

Backup SIP Server (PBX)

Enter either the hostname/IP address of of the backup SIP server if you have one. In case when the main server is not available, the device will try to register to the second one.

NOTE:

The backup server shall be configured to require the same credentials as on the first one.

SIP ID

Enter the SIP ID (username) that has been created for this device.

SIP Password

Leave this field empty if the PBX doesn't require authentication.

SIP Display ID

Enter the description that you like to have displayed on the remote peer when ringing.

Authentication ID

Enter the Authentication ID given by your SIP provider to use for authentication (if it is different than the SIP ID). Most often you do not need to fill in anything, just leave it empty to use the SIP ID for authentication.

Listen SIP Port

Listening port for the SIP protocol messages. A value of 0 means a default value of 5060.

Listen RTP Port

Listening port for the RTP audio blocks. A value of 0 means a default value of 5004.

Default REGISTER Time

The value that the SIP client suggests to the SIP server when sending the REGISTER request. If this value is accepted by the SIP server, the SIP client has to register after this amount of time.

Allowed values in the range of 60-3600 seconds.

NOTE:

The SIP server may overwrite this value in its reply to the REGISTER request.

Send NAT-Keepalives

Enable this function if the device resides behind a NAT.

Periodically Renew DNS

If enabled, it will force the SIP client to renew the DNS of the SIP server every time the registration to the server fails. Use this feature if you have a backup SIP server with the same DNS name and you wish to enable the SIP client to switch to it if the main server fails.

NOTE:

This option is mutually exclusive with the "Backup SIP Server (PBX)" setting. When this option is enabled, it will prevent the SIP client from switching to the backup SIP server, and it willstay to the one that has been selected at boot time. In this case the SIP client will keep on resolving the same SIP server name.

Registration Fail Timeout

The SIP client will automatically resolve the DNS of the SIP server if the REGISTER request

fails. However, if the SIP server is down, or the REGISTER message gets lost, the SIP client will not get reply from the server. So configure here the timeout after sending a REGISTER request on the expiry of which the registration will be considered as "failed" in case of no reply from the SIP server.

<u>NOTE 1:</u>

Use this feature with caution. Setting this value too low may result in registration malfunctioning. If unsure, leave it to the default value.

<u>NOTE 2:</u>

This timeout is shared with the "Backup SIP server (PBX)" setting. Default: 10 seconds

Call Timeout

Enter here in minutes (1-255) the maximum time duration of the call. After the expiry of this timeout the call will be unconditionally closed. Default: 0 (disabled)

Debug Mode

Sends received or sent SIP messages through Syslog.

2.4.3 Barix IP System Settings

Station ID

Set the ID (1-8) of the Barix Paging Station. Usually IDs 1-4 are used for PS16 Paging Stations, IDs 5-8 are used for SIP Gateway Paging Stations, but this can be always reassigned. Default: 5 (SIP Station 1)

Play Chime on Paging

Enable or disable the chime to be sendt to the Zone Players when the paging starts. Default: enabled

Server Address

Configure here the address to which the Barix Status Server is listening for request messages from the Paging Stations. Default: 224.1.2.55:6666

PA Station Address

Configure here the address to which the Paging Stations shall listen for status messages sent by the Barix Status Server. Default: 224.1.3.55:6667

Zone Information Address

Set the address to which the Paging Stations shall send SDP messages with their zone selection. Default: 230.1.2.50:6000

2.4.4 Inbound Calls

Input Buffer Level

Maximum delay of the input audio buffer in milliseconds. Decrease this value to minimize delay, increase this value to prevent audio dropouts. Default: 300 ms.

Stream Timeout

In some scenarios the remote party may go offline without explicitly closing the active call. In this case the SIP client may stay in active call state for unlimited amount of time. Set here the time in minutes after which the SIP client will close the active call if there is no audio stream received. You can change between 0 and 600 minutes.

Default: 0 min (disabled)

2.4.5 Audio

Encoding

Choose between "*uLaw*", "*aLaw*", or *G.722*. <u>NOTE:</u> The G.722 selection option is visible only if supported by the HW. Default: uLaw

Volume

Choose between "0%" and "100%" in 5% steps. Default: 50%

2.4.6 Streaming

Analog Zones Address

Set the IP address and port of the device feeding the analog audio amplifier for zones 1 to 10. When the analog "zone" is free, a Paging Station may send audio to it in addition to the IP players duplicating the analog zones 1 to 10. Default: 230.1.2.51:3030

All Zone Address

Set the IP and port to which all the zones are listening to. The RTP stream sent to this address will be received by all zones. Default: 231.1.2.50:3535

Zones 1-10 Address

Set individual IP and port for IP zones 1-10. Default: 224.1.4.61-70:3535

Zones 101-180 Base Address

Set here the base IP and port for zone 101. The IP addresses of the zones 102-180 will be configured by incrementing the last 3 digits of the base address. <u>NOTE:</u> Make sure to set the last 3 digits of the base address not bigger than 153,

otherwise the last zones addresses may be invalid.

Default: 224.1.4.71:3535

2.4.7 Security

Reset Function

Enable or disable the "Reset" function on the Reset button and on the WEB UI. In order to restart the device press the Reset button once. Default: enabled

Factory Defaults

Enable or disable the "Factory Defaults" function on the Reset button. In order to revert all settings to factory defaults keep the Reset button pressed until the red LED starts blinking (approx. 10 seconds). Default: enabled

Update Function

Enable or disable the WEB Update function of the device. If the Update function is disabled, the only way to update the firmware is to use the serial rescue. Default: enabled

Set Password

This is visible as long as no password is set.

Enter a password (up to 25 characters) and hit the "Apply" button. After the restart you should close the browser window and open a new browser window. You will be asked to supply user name and password. The user name can be omitted but the password has to be supplied in order to see the web configuration.

Old Password / New Password

These fields are visible as long as a password is set.

To allow free access (clearing the password) enter the old password and leave the field "New Password" empty. Enter the old password in the password field above the "Apply" button as well and then hit the "Apply" button.

After the restart you will not be asked for user name and password anymore.

To change the password enter the old password and enter the new password in the field "New Password". Enter the old password in the password field above the "Apply" button as well and then hit the "Apply" button.

After the restart you will be asked for user name and password. The user name can be omitted but the new password has to be supplied in order to see the web configuration.

2.4.8 Call handling

The zone selection is made via DTMF after dialing.

Zones must be composed always with 3 digits; multiple zones (7 maximum) can be selected.

* for start paging; * as first selection for all call (e.g. 002005014* for zones 2, 5, 14; ** for all call).

Hangup to close the call.

SIP Messages (sent to the phone)

<u>Select</u> (after answering) it's possible to digit zones

<u>Speak</u> (after the chime) it's possible to speak

<u>Busy X</u> Zone N is busy

2.5 Zone Player

2.5.1 BGM Client firmware

Barix Backgroung Music Client can be used as Zone Player inside SIP Zone Paging system.

It provides BGM with RTP, raw UDP, and MPEG-TS streams, with 10 channels selection and volume control by VSC (Volume Source Control) panel.

To get the firmware contact <u>support@barix.com</u>.

IMPORTANT NOTE:

On PA Station / SIP Gateway the All Zone Address must be set to the network broadcast address (e.g. 192.168.50.255).

BGM IP Address

Set the BGM listening address.

BGM Port

Set the BGM listening port. If this field is not 0, the BGM listening service is enabled. BGM service listen for a RTP-MP3 incoming stream.

BGM Number of Channels

Set here the number of the available BGM channels.

BGM Buffer

Set the BGM playback delay buffer in milliseconds.

BGM Stream Type

Switch between *Raw UDP*, *RTP*, and *Raw UDP MPEG-TS* stream types

MPEG-TS PID

If you want to decode MPEG-TS stream, enter here the PID of the audio elementary stream you would like to play. <u>NOTE:</u> This option is visible only if "Raw UDP MPEG-TS" stream type is selected.

BGM Start Volume

Set the BGM playback volume at device start.

BGM Max Volume

Set the maximum BGM playback volume.

Here an example of configuration for Zone 5 with 3 RTP BGM channels (e.g. coming from 3 Barix Instreamer).

Background Music Client

Basic Settings	BACKGROUND MUSIC	
Advanced Settings	BCM Start Channel	
Network	Bow Start Channel	
Streaming	BGM Buffer	600 ms
Serial Port	BGM Stream Type	RTP 🗸
Security	BGM Start Volume	40 🗸 %
Apply Cancel	BGM Max Volume	60 🗸 %
	BGM Number of Channels	1 🗸
		BGM Source IP:Port
	BGM Channel 0	224 . 1 . 3 . 1 : 4441
	PRIORITY MESSAGING	
	Priority Audio IP Address	224 . 1 . 4 . 65
	Priority Port	3535
	Priority Port Priority Volume	3535 80 ✔ %

2.5.2 Streaming Client firmware

Barix Streaming Client can be used as Zone Player inside SIP Zone Paging system.

Using the switching URLs mechanism, can be configured to play BGM, in RTP/HTTP with channels selection.

It supports also Priority Stream (e.g. coming from Barix PS1) that is played with highest priority.

To get the firmware see the download section at <u>www.barix.com</u>.

Here an example of configuration for Zone 3 with RTP BGM (e.g. coming from an Instreamer).

STREAMING CLIENT

Basic Settings				
Advanced Settings	STREAMING SETTINGS	3		
Network	1. URL	L rtp://224.1.4.63:3535		
Streaming				
Audio & Playback	2. URL	rtp://231.1.2.50:3535		
Priority	3. URL	rtp://224.1.3.1:4441		
Serial & Control				
I/O	Stream Check Period	1 seconds		
Remote Management	Check Period Limit	1 seconds		
Security				
	RTP delay	600 ms		
Apply Cancel	Audio buffer size	high 🗸		
	Fode in Devied			
	Fade-In Period	none 🗸		
	STREAMING OPTIONS			
	озв раскир	play complete files 👻		
		1. URL 2. URL 3. URL		
	Refresh	once 💙 once 💙		

 On reconnect play the same song v
 same song v
 same song v

 Playlist falls
 if all items fail v
 if all items fail v

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3 Legal Information

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T +41 43 433 22 11 F +41 44 274 28 49 www.barix.com sales@barix.com support@barix.com

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