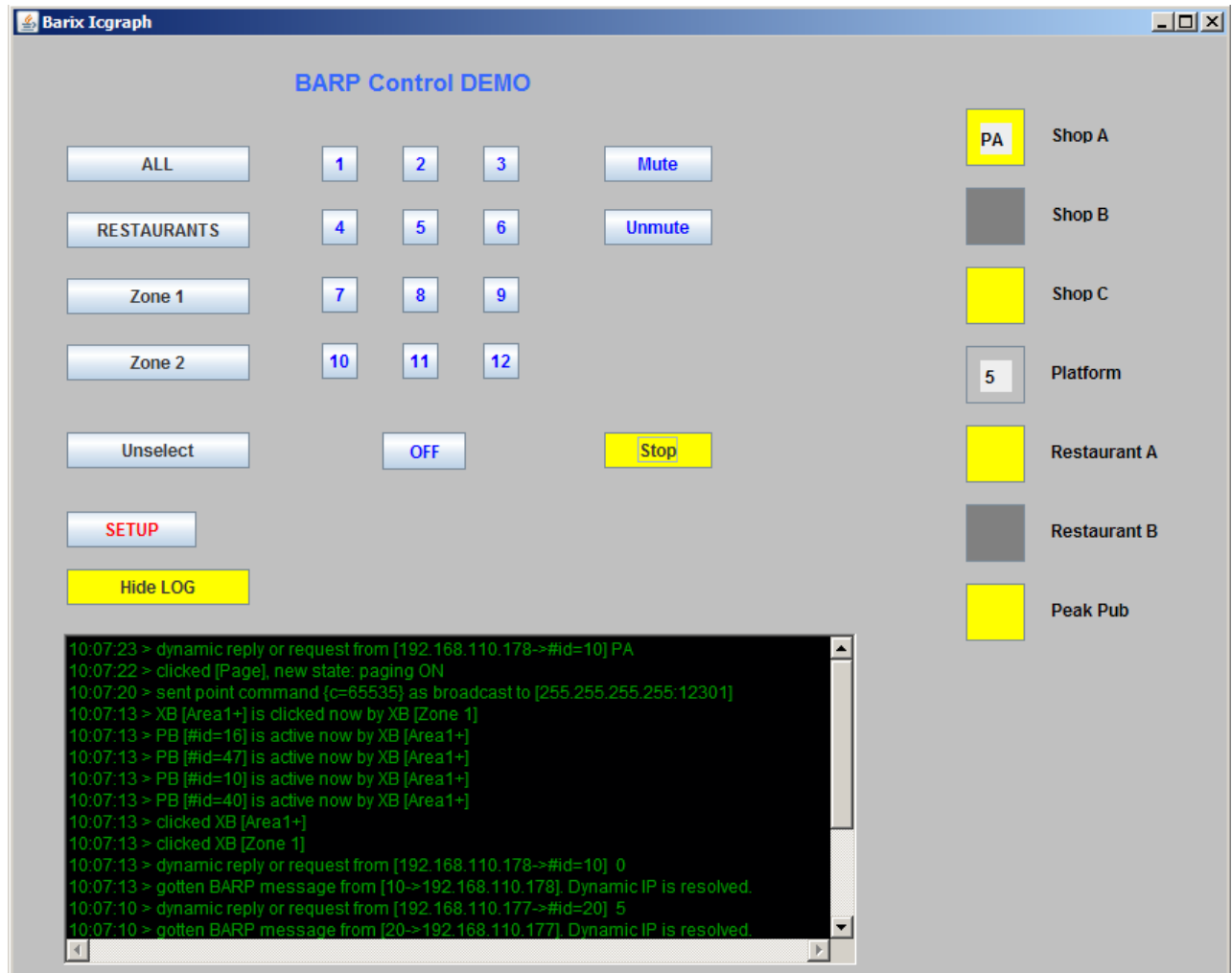




ICgraph – BARP Paging solution

In the newer ICgraph versions Barix added the BARP protocol. Together with the ABCL BARP Paging software, which can be loaded on the Barix Annuncicom and Exstreamers, it allows extremely flexible audio paging & control solutions. This solution is ideal for the complete audio control (voice and music) in hotels, Ski & Sport resorts, shopping malls or entertainment parks and is used there already.



On ICgraph all the Barix devices can be monitored (current status and network status).

ICgraph will try to discover all Barix devices in the network. If available, the Barix devices can be selected (one or multiple devices or a group or all) for live paging from ICgraph - PC.

An Intro-gong/message before the paging is also possible. The devices report their current status and ICgraph can display it. The channel for the background music can be set remotely from ICgraph - PC or locally over a Barix VSC interface (if connected to Barix device). Barix Instreamers can be used to stream the background music.



ICgraph usage :

The Page button is responsible to start a paging. In BARP mode it is not necessary to press a „Voice button“ or similar. Select the target(s)/point(s) and press the Page button, the audio streaming ist started immediately. The same to select the music channel (background music) for the remote devices. Select the device(s) and press the number button (1-12, see picture above).

ICgraph configuration :

To be compatible with the BARP protocol ICgraph must used special buttons (e.g. Page Button) and special syntax for the Point buttons.

Page button

```
# PG:[~][#]N:X:Y:W:H:N2:Pr:IP:port_a:port_c:port_s:
# Pr is BARP Priority parameter 0-255 (default 100)
# IP is multi/broadcast IP for audio/control/status (default broadcast)
# port_a is target port for sending audio (default 5555)
# port_c is target port for sending control (default 5556)
# port_s is local port for receiving status (default 5557)
PG:Start page:10:100:120:30:Stop:200:::
```

The button above defines the name and the position (10:100:120:30) of the button, defines also the priority (200) of the paging and uses the default paging ports.

Point buttons

```
# Points buttons (each can be with some IP items for group)
# PB:[~][#][*]N:X:Y:W:H:IP1:port1:[IP2:port2:]...[[+|-]ring file:]
# if name has "=N" extention -> BARP ID number is N (1-1024)
# if IPx is empty -> dynamic IP will be gotten from "name" unit
# if IPx is "name" -> fix or dyn IP of previous "name" will be used
# if portx is empty -> port of "name" (else LP or Page port) will be used
PB:ID=10:196:47:0130:33:::
```

The Point button requires the ID (e.g. =10) of the BARP target device. This must be the same ID number as defined in the Barix device setup (under „Station-ID“). In the example above is no IP address or a port number defined, because ICgraph will discover the IP address in a LAN and uses the port numbers from the Page button.

The usage of ICgraph macro functionality could be senseful to e.g. in-/decrease the priority of the Page button.

Details for that and to all other questions about ICgraph are contained in the ICgraph manual. The ICgraph configration (ICgraph.cfg) is human readable and can be opened and edited with any editor (e.g. notepad).

The complete BARP ICgraph configuration of the picture on the previous page is contained in this package.

Configuration on the Barix device :

The Barix device requires the special Barix BARP Paging ABCL software loaded. It works with Barix Exstreamers and Barix Annuncicomms. So please update your Barix devices with the ABCL Paging software contained in the ICgraph-Paging package thereafter select on device's webpage under „Settings“ - „Application“ = „BARP Paging Client“ and click on „Apply“ button to reboot the device.

On the right is a screenshot of the BARP parameters in BARP Paging Client software configuration.

Important is the Station-ID setting, each device needs a unique ID number. In the ICgraph configuration you will need also a Point button (PB) for each ID number. on the contained example you have to set also PCM/24 kHz and RTP in the device settings.

For background music channels are the BGM settings important also. If a Barix VSC is connected to the Exstreamer then enable it also under „Settings“ - „use Serial I for“ = „VSC Panel“ .

Configuration Instreamer for background music :

The Instreamer has to work with the standard firmware. One Instreamer has to broadcast one channel on a unique port number. This channel number(s) must be configured also in the Paging client device. If multiple channels are broadcasted (e.g. by multiple Instreamers) then the port numbers should be increasing in sequence, e.g. for 8 channels use port numbers 11001 to 11008.

Audio Configuration:

Input source: Line
MP3 Channel Mode: stereo
Encoding: MPEG1/32 kHz (must be MP3)
MPEG Encoding quality (MP3): 3
MP3 Bitreservoir Mode: kept empty

Streaming Configuration:

Streaming mode: send always
Stream to I: RTP : 192.168.255.255: 11001

In some networks it's useful to use a multicast IP address (under „Stream to I“) instead of a broadcast address. This Multicast IP address must be used also in the Paging Client configuration and also in the ICgraph configuration.

Alternatively for BGM also the Barix „RTP_MP3_Streamer“ software tool (java based) can be used.