

ICgraph - Getting Started

ICgraph is a very flexible Java based PC software to communicate (VoIP) to Barix Audio products, also it allows remote control and remote monitoring of Barix products. Because of the used Java programming language it can be used with almost all operating system. To get ICgraph running a Java Run-time Environment (JRE) must be installed first on the PC. This can be downloaded for free from : www.java.sun.com

Before ICgraph can be used for communication or control it must be configured. There are two possible ways :

- A start from zero without any existing configuration (default) and use the ICgraph menu - recommended
Follow instructions below or see manual
- B copy an existing example configuration into the program folder and modify the ICgraph.cfg file with any editor (e.g. Notepad) – for details see ICgraph manual

If Java is already installed on the PC the start the ICgraph.bat or the ICgraph.jar to open the ICgraph application.

When no existing configuration (ICgraph.cfg file) is existing in the ICgraph program folder then a little grey application window will open. Now click with the right mouse button on the grey background to open the configuration menu. For audio communication is required :

- a “Main IC configuration”
- a Voice button
- and one or more Point buttons



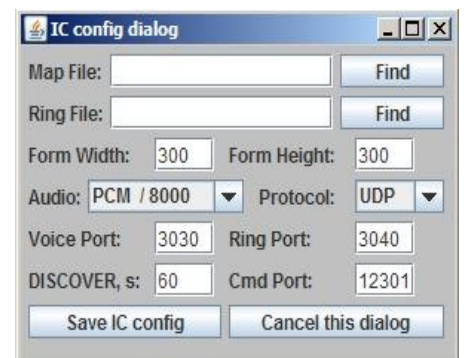
Click on “Main IC config...” in the menu to select/open the Main IC Configuration.

A little config dialog window will appear.

There the audio format/protocol, size, background picture, network ports and some other parameters can be defined. For the beginning define only the same audio format and protocol which is also used in the Barix device and the “Ring File” (e.g. Ringin.wav).

To resize/enlarge the ICgraph window change the parameters in the dialog box or resize now the ICgraph application window with your mouse directly. When the window/button size is changed by mouse (while dialog window is open) the new values for “Width” and “Height” are automatically overtaken into the dialog window.

Click on button “Save IC config” to save values and close window.





Next is the required “Voice Button” , open this item with the mouse over the menu. This will open a “VB config” window and automatically add a button on the ICgraph window.

In the config window define the “Name” for the button and name for the button when pressed. Use the mouse to move the button on the desired place or define the position manually in the config box. When everything is set, then click on save and to save the values and to close the window. To get the new settings active you have to restart ICgraph. For that click with the right mouse button into ICgraph window and select “Restart”. After few seconds ICgraph will be restarted and shows now the Voice button.



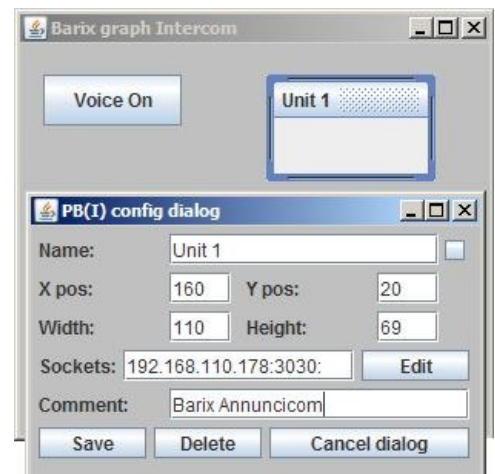
Now configure the “Point button”, this is required to select your Barix device for communication. Open the ICgraph menu and select “Point Button” - “New individual...”.

In the upcoming PB(I) config window define a unique “Name” and size/position of the button and under “Sockets” set the IP address and port number (with columns in between and thereafter) of your Barix device.

NOTE, all button names **must be unique** in ICgraph, please do not use the same name twice !

At the end click on “Save” to save and exit the config window and restart ICgraph application to activate the new settings.

Now you have a minimum ICgraph configuration to communicate with an Barix device. If your Barix device is also properly configured (see manual) then you should be able now to communicate with your Barix device !



If ICgraph should be also used to pulse the internal relay of an Annunicom or Exstreamer1000, e.g. to open a door, then it also needs a “Message button”.

For that select from the menu “Message Buttons” - “New active” .

In the opening config window define a “Name” for the button, the “Command” which should be send to the Barix device and set the position of the button here or by mouse directly.

Thereafter click on “Save” and restart the ICgraph application to get the change active.



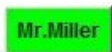
More details about the ICgraph configuration are in the ICgraph manual - chapter “ICgraph configuration menu items” and in the “Advanced user section”.



How to use ICgraph

When everything is installed/configured and ICgraph is started then click on Voice button (“Voice on” in example on previous page) to start the audio engine. The button colour is changing thereafter to yellow and is labelled then “Voice off” ! Only when “Voice on” is pressed you can make any audio communication, otherwise it can be used only as control panel with other functions !

Yellow & green (static) target button :



If you click now on any point / target button then this changes the colour to yellow. Yellow target button means open communication.

If a full-duplex firmware is used in the Barix audio device then you can speak and listen now.

If the standard firmware is used in the Annunicom then it is working only half duplex, what means when one is speaking then the other can only listen. To change the direction of the communication make a double-click on the yellow target button and it will change the colour to green (static), now the Annunicom can speak and ICgraph is listening. Turn to speak by double-clicking on the green button again. Note, deactivating a point button works only from yellow state, not from green state !

Green blinking target button :

Green blinking target button means the target is streaming to the ICgraph PC, but you cannot hear it because the channel is not selected. It is a visual notification that this unit is currently sending to the PC. Click on the blinking target button (colour changes to yellow) and the incoming stream is audibly on the PC.

Magenta (blinking / static) target button :



A magenta blinking button is a notification for a incoming ring. To get such audible and optical ring notification the Barix device must send a Ring command (see details in ICgraph manual).

If an audio file is defined in the IC Main configuration (Ring File) then the ring sound should play on the PC (moreover, this sound can be tuned individually for each point, if need).

The button will blink 3 times, thereafter only the name of the button remains in magenta.

If the button is selected then a double-click on the target button or a click on “Open Door” button will reset to normal colour.

It is also possible to select multiple target buttons for outgoing streams at the same time, but make sure they do not answer all, otherwise the incoming audio is stuttering .

For the use of any Message button one or more target buttons must be selected.

The command behind message button is sent to selected targets then. This works also when “Voice on” is inactive (not pressed) !