



Application Note APN042017

Connection to the IP PBX

1. Features

- Integration of the iBell program into the corporate IP telephone network
- Supports standard IP PBX - SIP servers
- It works on local network only
- Video from the Entrance Communicator Camera even without a call
- Pop-up function

2. Applications

- Offices
- Shops
- Warehouses
- Production halls

3. Description

The program iBell allows standard connection to a IP PBX as well as classic desktop IP Phones.

The program supports standard SIP Servers such as Asterisk, 3CX, FRITZ! Box etc.

The program allows you to monitor the video from the Entrance Communicator Camera even without making a call.

The program runs in the background of Windows and will be displayed on the desktop if there is an incoming call.





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4. Entrance Communicator settings

- The “SIP mode” section must be set to “SIP server” mode.
- The sections “Account”, “Auth.Id”, “Password”, “Registration server” and “SIP server” must be set according to the parameters provided by your IP PBX operator.
- The text “Registration successful” at the bottom of the window indicates the correct connection to the SIP server (after click on Save button).
- **The section “Account” also contains the Entrance Communicator phone number. This section contains the same value as “Communicator Phone Number” section in iBell settings. See below.**

The screenshot shows the 'SIP parameters' configuration page. The left sidebar contains a menu with options: Current status, Network setting (Network, SIP parameters, Web server), Basic settings, Extended settings (Service, Video camera). The main content area is titled 'SIP parameters' and includes the following fields:

- SIP mode: SIP server (dropdown)
- Display name: IP DoorPhone
- SIP User Agent: IP BOLD
- Account: 200
- Auth. Id: 200
- Password: ***
- Send register:
- Registration server: 192.168.1.3
- Port: 5060
- Expiration [sec]: 600
- Register after restart:
- SIP server: 192.168.1.3
- Port: 5060
- Outbound proxy: (empty)
- Port: 5060
- SIP Transport: TCP & UDP (dropdown)
- Provisional code: 180 Ringing (dropdown)
- Enable Symmetric RTP:

Registration successful

- The section “1. call number” contains the iBell phone number, here it is phone number 201 for an example.

The screenshot shows the 'Phonebook' configuration page. The left sidebar contains a menu with options: Current status, Network setting, Basic settings (Phonebook, Relay, Door sensors, Setting SNMP, Timetable, Time setting, E-mail), Extended settings, Service, Video camera. The main content area is titled 'Phonebook' and includes the following fields:

- Title: iBell
- Email: (empty)
- Enabled:
- 1. call number: 201
- Timetable: None (dropdown)
- Calling: Sequential (dropdown)
- 2. call number: (empty)
- Timetable: None (dropdown)
- Calling: Sequential (dropdown)
- 3. call number: (empty)
- Timetable: None (dropdown)
- Calling: Sequential (dropdown)



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5. iBell settings

- The sections “SIP Server User Name”, “SIP Server User Password” and “SIP Server IP Address” must be set according to the parameters provided by the PBX operator.
- **The section “SIP Server User Name” also contains the iBell phone number. This section must contains the same value as “1. call number” section in Entrance Communicator settings. See above.**
- The section “NAT and Firewall settings” is set to “Local Network”.
- The section “Communicator IP Address” contains direct IP address of Entrance Communicator. This is used to permanently display the video.
- The section “Communicator Phone Number” contains Entrance Communicator phone number.

SIP Server Connection

SIP Server User Name: 201

SIP Server User Password: #####

Authentication ID: [empty]

SIP Server IP Address: 192.168.1.3

SIP Server Network Port: 5060

Registration Server IP Address: [empty]

Registration Server Port: 5060

SIP Proxy Server IP Address: [empty]

SIP Proxy Server Network Port: 5060

Outbound Proxy Server: [empty]

NAT and Firewall settings

Local Network

Public IP Address: [empty]

STUN Server IP Address: [empty]

User Settings

Run this program automatically when Windows starts

The program automatically minimize after its launch

Ringing tone: sound1.wav

Language selection: en

@ For example: http://192.168.1.250/video.mjpg

Entrance Communicators Settings

Communicator Name: Entrance

Communicator IP Address: 192.168.1.250

Communicator Video Port: 80

Communicator Phone Number: 200

Incoming Substitute Phone Number: [empty]

Communicator Admin Password: [empty]

1 DTMF code to switch: 55

Auxiliary Camera IP Address or Domain: [empty]

User Name: [empty] Password: [empty]

2 DTMF code to switch: [empty]

Auxiliary Camera IP Address or Domain: [empty]

User Name: [empty] Password: [empty]

3 DTMF code to switch: [empty]

Auxiliary Camera IP Address or Domain: [empty]

User Name: [empty] Password: [empty]

4 DTMF code to switch: [empty]

Auxiliary Camera IP Address or Domain: [empty]

User Name: [empty] Password: [empty]

Entrance

Add Communicator Remove Communicator

Default settings Documentation Save and Restart Back

That is all. Now we can try to call :-)