



Connection to the IP PBX

1. Features

- Integration of the iBell office 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 office 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.





Application Note APN042017

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, and 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:**

At the bottom of the page, it says '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, and 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 office 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 contain 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.

Screenshot of the iBell Settings application window. The window is titled "Settings" and contains several sections:

- 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 (selected), Public IP Address: [empty], STUN Server IP Address: [empty].
- User Settings:** Run this program automatically when Windows starts (unchecked), The program automatically minimize after its launch (unchecked), Ringing tone: sound1.wav, Language selection: en.
- 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].

Below the Entrance Communicators Settings section, there are four locked sections (1-4) for DTMF code to switch, Auxiliary Camera IP Address or Domain, and User Name/Password. At the bottom, there are buttons for "Add Communicator", "Remove Communicator", "Save and Restart", and "Back".

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