



Application Note APN012017

Direct connection to one entrance

1. Features

- Direct connection iBell software to the Entrance Communicator
- No SIP server is needed
- It works on local network only
- Call only without switching rules
- Pop-up function

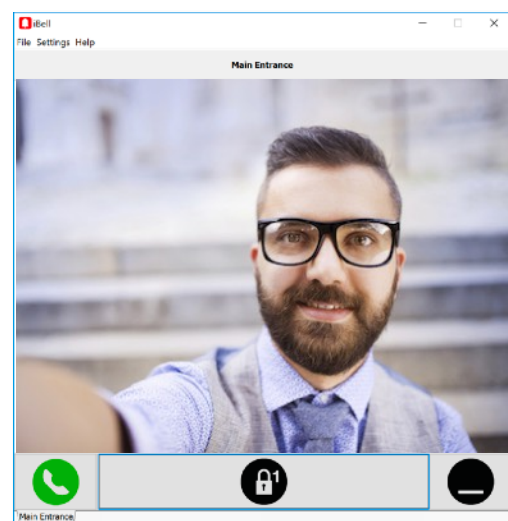
2. Applications

- Family houses with one entrance
- Small offices
- Small shops

3. Description

The Entrance Communicator contains some Registrar service. This service can be used to directly connection of iBell software to the Entrance Communicator. No SIP server is needed. The Entrance Communicator must be set in Peer-To-Peer mode and his Account number must be set to number 250. (This is the default setting after production.) The iBell software will use this Communicator as Registrar server and simultaneously it can makes phone calls.

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 “Peer-To-Peer” mode. Only in this mode the Registration service is running inside Entrance Communicator.
- The “Account” must be set to number 250. It is the Entrance Communicator call number.

The screenshot shows the 'SIP parameters' configuration page. On the left is a navigation 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 contains the following fields:

- SIP mode:** Peer-to-peer (dropdown)
- Display name:** IP DoorPhone
- SIP User Agent:** IP BOLD
- Account:** 250
- Auth. Id:** (empty)
- Password:** (empty)
- Send register:** (checkbox, unchecked)
- Registration server:** (empty)
- Port:** 5060
- Expiration [sec]:** 600
- Register after restart:** (checkbox, checked)
- SIP server:** (empty)
- Port:** 5060
- Outbound proxy:** (empty)
- Port:** 5060
- SIP Transport:** TCP & UDP (dropdown)
- Provisional code:** 180 Ringing (dropdown)
- Enable Symmetric RTP:** (checkbox, unchecked)

- The section “Phonebook” contains the iBell call number, here it is number 200 for an example.
- Under this call number 200 is iBell registered to the Entrance Communicator. See next chapter.

The screenshot shows the 'Phonebook' configuration page. At the top, it says 'Number: 1 2'. The left navigation menu includes: 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 contains the following fields:

- Title:** iBell
- Email:** (empty)
- Enabled:** (checkbox, checked)
- 1. call number:** 200
- 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 “SIP server User Name” must be set to iBell call number, here it is number 200 for an example.
- The “SIP Server User Password” must be set to communicator admin password. You can also use the number 200 by default.
- The “SIP Server IP Address”, here is Entrance Communicator local IP address. It is the same as “Communicator IP Address” for our case.
- The “Communicator IP Address” is the same as the “SIP Server IP Address”.
- The “Communicator Phone Number” must be set to phone number 250. It is an internal phone number of the Entrance Communicator in Registrar mode.

The screenshot shows a 'Settings' window with two main sections: 'SIP Server Connection' and 'Entrance Communicators Settings'.

SIP Server Connection:

- SIP Server User Name: * 200
- SIP Server User Password: * #####
- Authentication ID: []
- SIP Server IP Address: * 192.168.1.250
- SIP Server Network Port: 5060
- Registration Server IP Address: []
- Registration Server Port: 5060
- SIP Proxy Server IP Address: []
- SIP Proxy Server Network Port: 5060
- Outbound Proxy Server: []
- NAT and Firewall settings: []

Entrance Communicators Settings:

- Communicator Name: Main Entrance
- Communicator IP Address: * 192.168.1.250
- Communicator Video Port: 80
- Communicator Phone Number: * 250
- Incoming Substitute Phone Number: []
- Communicator Admin Password: []
- DTMF code to switch: []
- Auxiliary Camera IP Address or Domain: []
- User Name: [] Password: []
- DTMF code to switch: []
- Auxiliary Camera IP Address or Domain: []

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