



Application Note APN072017

Connection to the **FRITZ!Box**

1. Features

- Connection to the IP PBX **FRITZ!Box** (www.avm.de)
- Support all version of **FRITZ!Box**
- It works on local network only
- Permanent view of video from the Entrance Communicator Camera
- Pop-up function

2. Applications

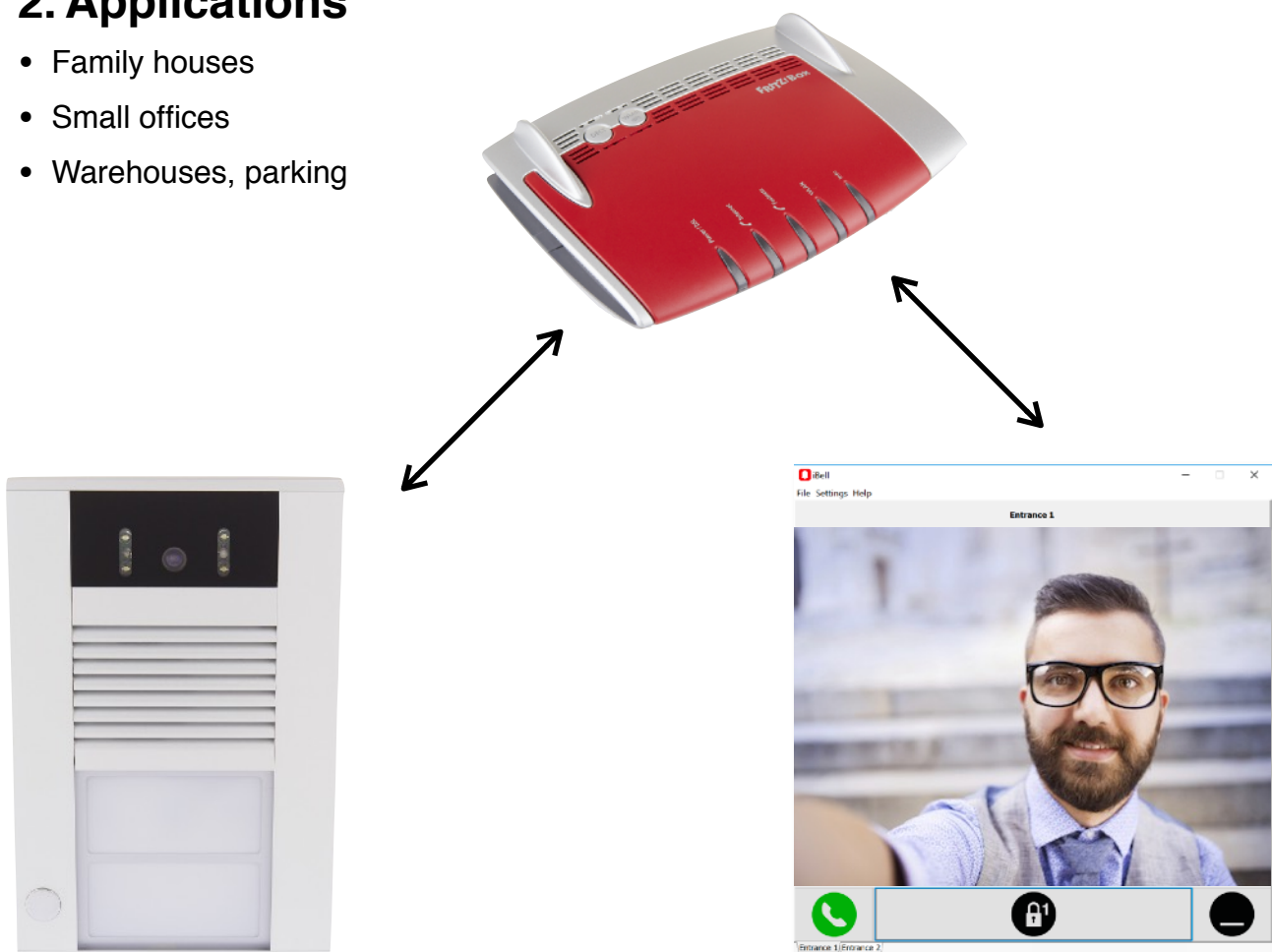
- Family houses
- Small offices
- Warehouses, parking

3. Description

The program iBell allows you to plug into a system with a IP PBX **FRITZ!Box**.

It supports both older versions of PBXs **FRITZ!Box** and new versions that include the number of the push button on the communicator in the calling phone number.

The program iBell 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”.
- The sections “Account”, “Auth. Id” and “Password” must be set according to the registration account created in the **FRITZ!Box**.
- The sections “Registration server” and “SIP server” must contain an IP address of **FRITZ!Box**.

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:** 620
- Auth. Id:** 620
- Password:** ***
- Send register:**
- Registration server:** 192.168.1.2
- Port:** 5060
- Expiration [sec]:** 600
- Registrate after restart:**
- SIP server:** 192.168.1.2
- Port:** 5060
- Outbound proxy:** (empty)
- Port:** 5060
- SIP Transport:** TCP & UDP (dropdown)
- Provisional code:** 180 Ringing (dropdown)
- Enable Symmetric RTP:**

- The section “Phonebook” contains iBell phone number including **FRITZ!Box** predial “***”.

The screenshot shows the 'Phonebook' configuration page for Number 1. 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), and Video camera. The main content area is titled 'Phonebook' and includes the following fields:

- Title:** iBell
- Email:** (empty)
- Enabled:**
- 1. call number:** **621
- Timetable:** None (dropdown)
- Calling:** Sequential (dropdown)
- 2. call number:** (empty)
- Timetable:** None (dropdown)
- Calling:** Sequential (dropdown)



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5. iBell settings

- The sections “SIP Server User Name” and “SIP Server User Password” must be set according to the registration account created in the **FRITZ!Box**.
- The “Communication IP Address” contains the IP address of Entrance Communicator. It is used to show permanent video from Entrance Communicator camera.
- The section “Communicator Phone Number” contains Entrance Communicator phone number including **FRITZ!Box** pre-dial “**”.
- The section “Incoming Substitute Phone Number” contains Entrance Communicator phone number complete with the Entrance Communicator call button number. (See **FRITZ!Box** documentation)

The screenshot shows the iBell Settings application window. It is divided into several sections:

- SIP Server Connection:** Includes fields for SIP Server User Name (521), SIP Server User Password (masked), Authentication ID, SIP Server IP Address (192.168.1.2), SIP Server Network Port (5060), Registration Server IP Address, Registration Server Port (5060), SIP Proxy Server IP Address, and SIP Proxy Server Network Port (5060).
- NAT and Firewall settings:** Includes Local Network (selected), Public IP Address, and STUN Server IP Address.
- User Settings:** Includes checkboxes for "Run this program automatically when Windows starts" and "The program automatically minimize after its launch", a Ringing tone dropdown (sound1.wav), and a Language selection dropdown (en).
- Entrance Communicators Settings:** Includes fields for Communicator Name (Entrance 1), Communicator IP Address (192.168.1.250), Communicator Video Port (80), Communicator Phone Number (**620), Incoming Substitute Phone Number (6201), and Communicator Admin Password. Below this are four locked sections (1-4) for DTMF code to switch and Auxiliary Camera IP Address or Domain, each with User Name and Password fields.

At the bottom, there are buttons for "Default settings", "Documentation", "Save and Restart", and "Back".

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