

FAQ "Ghost" calls with strange phone number.

Question:

My phone is ringing and I see as incoming phone number an IP address (example: 10*0*1*199) instead of normal phone number.

Cause:

These calls are NOT coming through your provider. The fact that your phone rings proves unsolicited packets (tcp or udp) from the internet can reach your VoIP device. This can be the result of port scanning or UDP flooding. In most cases the attacker can't do much other than to create a bit of nuisance in your household. If your device is capable of some form of call forwarding (even from voicemail ivr), then there is a remote chance that your account may be used to call premium numbers (owned by the hacker on a revenue sharing basis) overseas.

Security:

It is not possible to retrieve data from your Gigaset device, but it is an security risk caused by your internet router.

Solution:

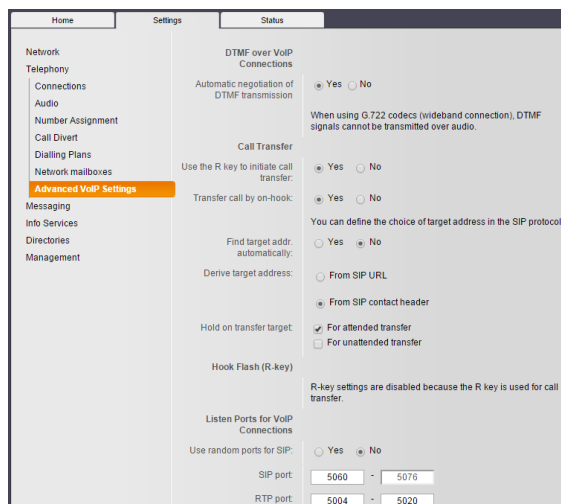
1. Router configuration:

The solution has to be created in your router, below are steps you need to check.

- Do not place your VoIP device in an DMZ (Router configuration)
- Disable uPnP and one-to-one NAT (full cone NAT) in the router
- Remove all port forwarding to your VoIP device on your router
- NAT router unless you have some funny stuff running on your PC
- Upgrade your router with the latest firmware
- Sometimes less expensive routers have also poor Firewalls and NAT functionality

2. Change local SIP port

In the web-interface of your device go to: **Settings - Telephony - Advanced VoIP Settings** and change the SIP port on your VoIP device to something other than 5060-5080



The screenshot shows the 'Advanced VoIP Settings' page in the Gigaset web interface. The left sidebar contains a menu with options: Home, Settings, Status, Network, Telephony, Connections, Audio, Number Assignment, Call Divert, Dialling Plans, Network mailboxes, Advanced VoIP Settings (highlighted), Messaging, Info Services, Directories, and Management. The main content area is titled 'DTMF over VoIP Connections' and includes several settings: 'Automatic negotiation of DTMF transmission' (Yes/No), 'Call Transfer' (Use the R key to initiate call transfer: Yes/No), 'Transfer call by on-hook' (Yes/No), 'Find target addr. automatically' (Yes/No), 'Derive target address' (From SIP URL, From SIP contact header), 'Hold on transfer target' (For attended transfer, For unattended transfer), 'Hook Flash (R-key)' (R-key settings are disabled because the R key is used for call transfer), and 'Listen Ports for VoIP Connections' (Use random ports for SIP: Yes/No). At the bottom, there are input fields for 'SIP port' (5060 - 5076) and 'RTP port' (5004 - 5020).

3. Disable IP dialling on Gigaset phone:

This change will take care that your gigaset phone won't ring, but the root cause is not solved and needs to be changed, see router configuration.

3.a Via activation code:

You can't disable this feature via the web-interface, therefore we created a special config that can be loaded via activation code.

- On an handset go to: **Settings - Telephony - VoIP Wizard**
- Handset shows "**Start IP installation wizard**", press "**Yes**" to confirm
- Press **OK** to confirm
- Select an IP account, please use not used account but if all are used also existing account can be used.
- Handset shows "**Do you have a code for auto-configuration**"
- Press "**yes**" to confirm
- Enter the code: **911910**
- Device downloads small config file that disabled IP dialling
- Handset will show that it tries to register and it not working but you can regard this message.
- End wizard with pressing "red" end key.
- IP dialling is disabled.

If this does not work, please check the following:

In the web-interface of the device, check if the Dataserver has the correct setting: profile.gigaset.net/device

The screenshot shows the 'Settings' tab of the Gigaset web interface. On the left, a sidebar menu lists various settings categories: Network, Telephony, Messaging, Info Services, Directories, Management, Date and Time, Local Settings, Miscellaneous, Reboot & Reset, Save and Restore, and Firmware Update (highlighted in orange). The main content area is titled 'Firmware Update'. It contains three input fields: 'Data server:' with the value 'profile.gigaset.net/device', 'User defined firmware file:', and 'Configuration file (URL):'. Below these fields, there is a section for 'Automatic check for software updates:' with two radio buttons: 'Yes' and 'No' (selected). A text block explains that during the firmware update, the device checks requirements, downloads the firmware, and the handset/base connection is lost. At the bottom right, there is a dark blue button labeled 'Update firmware'.

3.b Via auto provisioning:

You can disable the IP dialling option when the device is in an business environment configured via autoprovisioning, the following parameters needs to be changed:

Device	Parameter
N510 DX800	BS_IP_Data3.ucB_IP_DIALLING_DISABLE=0x1 BS_IP_Data3.ucB_PEER_TO_PEER_ALLOWED=0x0
N720	BS_VOIP_Data.ucB_IP_DIALLING_DISABLE=0x1 BS_VOIP_Data.ucB_PEER_TO_PEER_ALLOWED=0x0