



CryptMyCall

Call and speak secure using your Android device with your friends and colleagues

**Thank you for choosing
CryptMyCall as your
secure VoIP client.**



Overview

CryptMyCall is a new secure VoIP phone app which lets you make encrypted phone calls over the Internet using your Android device.

Only with one touch and you can call your friend with full protection and privacy.

What is needed is simple: CryptMyCall app on both Android devices.

Once you have activated a SIP account at your preferred SIP Provider, the Account section of CryptMyCall settings can be configured in few steps:

- insert your SIP username (e.g., 123456);
- insert your password;
- insert the SIP server (e.g., sip.server.com).

That's all and you are ready to securely communicate with your contacts.

Security is based on the well know ZRTP protocol. ZRTP is acryptographic protocol that allows to negotiate the keys forencryption between two end point. It ensures both the authentication between the communication partners and the confidentiality of the information exchanged.

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The protection from MITM is granted by two security features:

- in the first communication the communicating parties verbally cross-check a shared value displayed at both endpoints;
- according to the key continuity, new sessions between the same partners are encrypted exploiting part of the last used key preserving the first verbal authentication.

ZRTP does not require prior shared secrets or rely on a Public key infrastructure (PKI) or on certification authorities. Different Diffie-Hellman keys are generated on each session establishment: this allows to bypass the complexity of creating and maintaining a trusted third-party.

CryptMyCall is able to automatically recognize if the communicating partners is able to support encrypted communications. If the partner did not have CryptMyCall on his device, you can still turn in a simple VOiP communication, in this case CryptMyCall alerts you through a message clearly visible on the device screen that the communication is not encrypted.

The use of CryptMyCall is protected with the use of a password that can be choose by the user for ensuring that nobody use your application without authorization.

Using CryptMyCall

This is the main screen of the application.

Touching the dial input (1) is possible to type the number that you want to call. With the button *Encrypted Call* (2) you will activate a ZRTP protected call while with the button *Normal Call* (3) you will activate a plain call.



This represents the screen of an outgoing encrypted call; the little yellow lock (1) remember that you have requested and encrypted call. In the box *Connected to* is highlighted which contact will answer to this call. In order to close the outgoing call you can press the red phone (3).

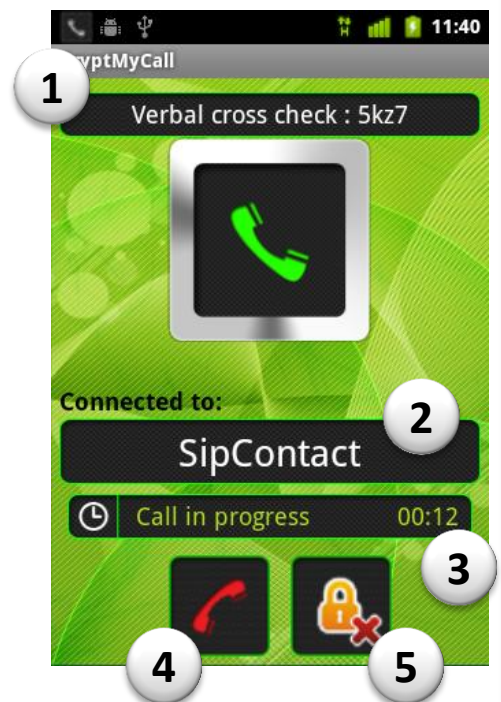


Using CryptMyCall

This screen appears when you request an encrypted call, during the negotiation of the session key that will be used to encrypt the audio stream.



This is the screen of an encrypted call in progress. The string in the *Verbal cross-check* (1) allows the communication partners to verify their identities verbally. In the box *Connected to* is highlighted the called contact. You can control the timer of this call (3). With the *red phone* button you can close this call (4), while with the *yellow lock* button you can temporarily disable the decryption of the audio stream (5). The noise that you hear is what is transmitted by your partner on the network.



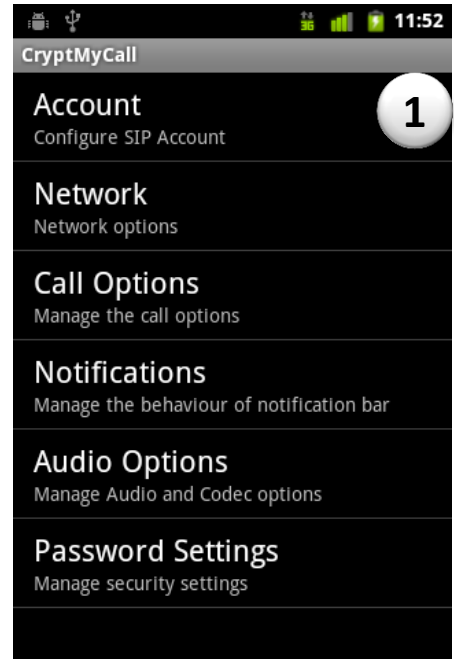
Using CryptMyCall

This screen is presented if you have set a password in to protect the access to CryptMyCall. Simply insert the password in the box and press the *Unlock* button (1).



Configuring CryptMyCall

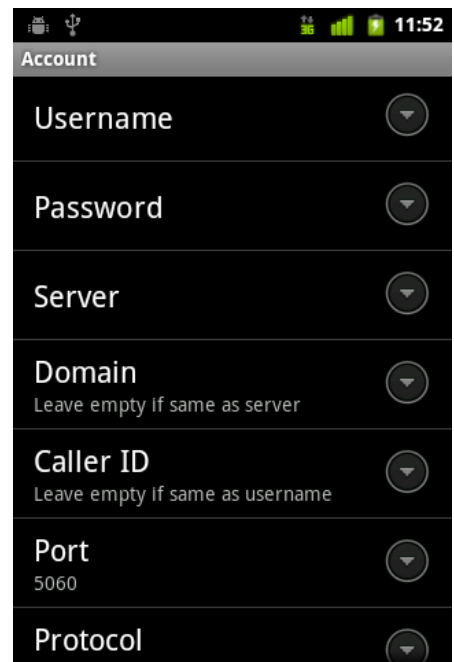
This is the main setting screen; in this list are summarized the main section of the configuration. The most important one is the *Account* section (1).



In the *Account* section you have to set the credential that you obtain with the registration to a sip provider.

Commonly the *Username* is something like «123456», the *Password* is the value that you set during the registration while the *Server* is something like «sip.server.com».

The other settings of this section can usually remain unchanged.

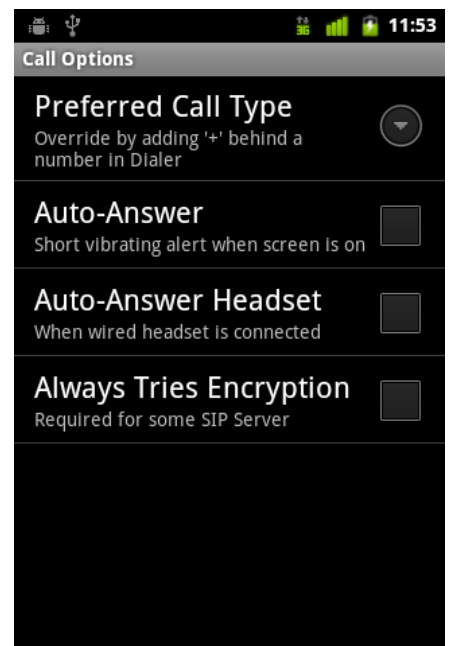


Configuring CryptMyCall

The **Network** section contains the settings related to the data connection that you want to use in realizing VoIP calls. Use WLAN allows to exploit a WiFi network to make calls without having a data plan with your operator.

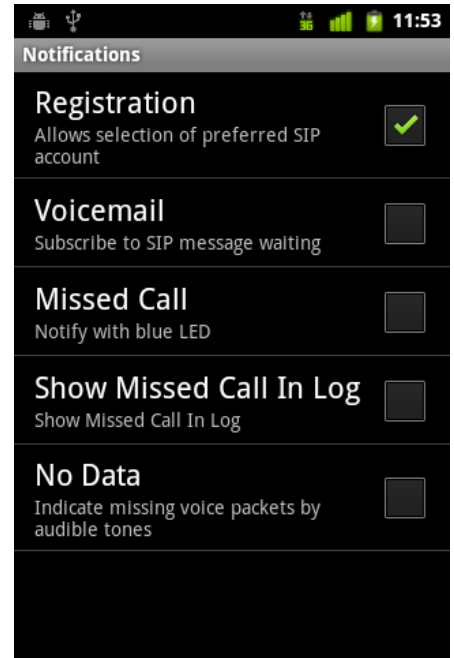


The **Call Options** section allows to set the preferences on the call. In this section **Always Tries Encryption** is needed if you want to use CryptMyCall with other VoIP clients that realize secure calls using ZRTP as secure protocol.



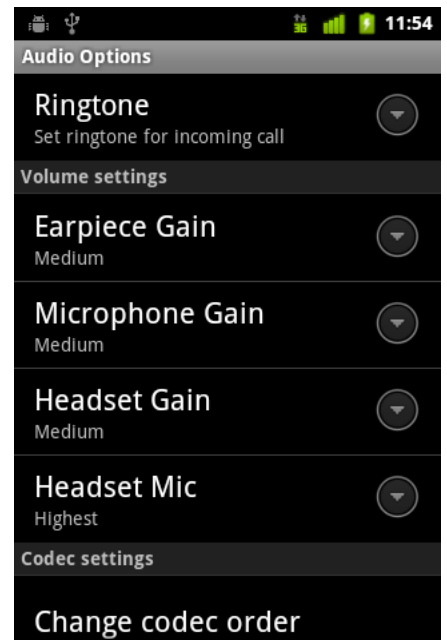
Configuring CryptMyCall

The section *Notification* allows to set how information about the use of CryptMyCall are visible in your phone. **Registration** allows to visualize the status of the registration to the SIP server in the notification bar. **Show Missed Call In Log** allows to populate the calls logs of the phone with the VoIP calls.



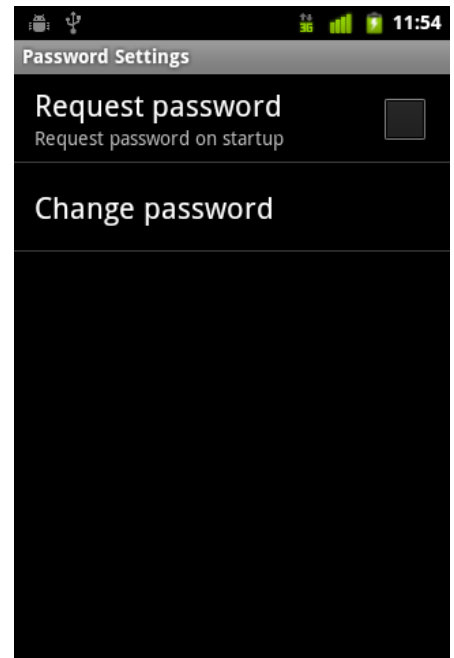
The **Audio Options** section allows to set the preferences for the ringtone of call received with CryptMyCall.

The other settings of this section can usually remain unchanged.



Configuring CryptMyCall

The **Password Settings** section allows to set a password for protecting the access to the application.



Icon Glossary



Secure call in progress.



Activate decryption of the received audio stream.



Secure call connected.



Disactivate decryption of the received audio stream.



Secure call ended.



Normal call in progress.



Normal call connected.



Normal call ended.

Support

If you have problem in using or configuring CryptMyCall
please send a mail at:

support@trustmyphone.com