

# TopSec Phone App for Android User Manual



5415.5380.02 – 02

The User Manual describes the following TopSec Phone models:

- TopSec Phone, App for Android 5415.5044.02

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## Certificate of quality

## Certificat de qualité

Certified Quality System  
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## Product-Specific Safety Instructions / Additional Information

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**NOTICE****Emergency Calls**

The TopSec Phone app does not support emergency calls. For emergency calls, please use the standard telephone function on your smartphone.

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**NOTICE****Costs**

The TopSec Phone app uses the data connection (packet data) of your smartphone for communication. The costs may vary depending on the contract with your provider.

Especially when abroad, very high roaming charges may be incurred.

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**NOTICE****Voice over IP**

The TopSec Phone app uses the data connection (packet data) of your smartphone for VoIP communication. Depending on the contract with your provider, VoIP data may be blocked via this connection. The TopSec Phone App can then not be used. Please contact your provider for further information.

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**NOTICE****Restrictions in functionalities due to Android OS**

Owing to the open nature of the Android operating system there are significant differences between manufacturers in the way the devices are used. It is possible that some functions may not be supported by your device. Should a path shown in this manual not work on your smartphone, please refer to your smartphone manual for assistance on that point.

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## Document Overview

This documentation on the TopSec Phone App can be downloaded from the Rohde & Schwarz web site ([www.rohde-schwarz.com](http://www.rohde-schwarz.com)).

A PDF reader is required to display the documentation, e.g. Adobe Acrobat Reader ([www.adobe.com](http://www.adobe.com)) or FoxIt Reader ([www.foxitsoftware.com](http://www.foxitsoftware.com)).



# Conventions Used in this Document

The following conventions are used in the TopSec Phone User Manual:

## Typographical conventions

| Convention                              | Description  |
|---|--|
| "Graphic user interface"                | All names of graphic elements on the screen and the front or rear side of the unit such as windows, menus, options, keys etc. are enclosed in quotation marks. |
| "KEYS"                                  | Keys are written in capital letters and enclosed in quotation marks.   |
| <i>Input</i>                            | User input is shown in italic font.  |
| File names, commands,<br>programme code | File names, commands, code examples and screen output are shown in a particular font.  |
| <a href="#">"Links"</a>                 | Links are shown in blue.   |
| "References"                            | References to other parts of the document are enclosed in quotation marks.   |

# 1 Product Description

The app TopSec Phone app is a smartphone application for VoIP communication. Additionally the app TopSec Phone allows you to establish a connection from your Smartphone via a TopSec Mobile that is connected with your Smartphone via Bluetooth®. The TopSec Mobile is used for encrypted voice communication. Together with the app, the TopSec Mobile is very easy to use. The TopSec Mobile can also be used with your Smartphone without using the app TopSec Phone. Please refer to the TopSec Mobile manual for this.

The app supports the TopSec Mobile unit when setting up a connection, the encrypted call itself still goes via the TopSec Mobile. No speech data is encrypted in the app at all.

The app has its own phone book in which all contacts for communication via the TopSec Mobile unit can be entered and managed.

Your smartphone has to be coupled (or paired) with the TopSec Mobile unit to be able to initiate or accept encrypted calls.

The app is available in the following languages:

- German
- English
- Spanish
- Portuguese
- French
- Russian
- Italian



The TopSec Phone app uses the standard parts and operating concepts of your smartphone wherever possible.

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## 2 Requirements

### 2.1 System Requirements

The TopSec Phone Android application supports the Android operating system from version 2.3.

It is possible to use the app via GPRS, EDGE, UMTS, HSDPA and via Wi-Fi. With GPRS the low data transfer rate and the higher delay can cause problems with the plain call functionality.

To use UMTS, you must ensure that you have an active data connection (packet data active). Should your mobile phone contract not include a data connection, please contact your provider for more information. To activate the data connection/packet data, please consult your smartphone manual.

To use Wi-Fi, you must ensure that you have an active data connection via a private or public WLAN. To configure the data connection via Wi-Fi, please see your smartphone manual.

If you have access to both UMTS and Wi-Fi, then deactivating the UMTS data connection will mean that the app can only be run via Wi-Fi. If you leave the area of the Wi-Fi, you will then no longer be able to use the app.

To connect to the TopSec Mobile, you need an activated Bluetooth® interface on your smartphone. The Android app needs the SPP Bluetooth® profile to operate. For information about the profiles that your smartphone Bluetooth® interface supports, please consult your smartphone manual or the manufacturer.

### 2.2 Conditions for Operation

You must be registered with a VoIP server for VoIP communication. The server manages the connections between the individual users. Connections between users can only be set up if all of the users are registered on the same VoIP server, or if the VoIP servers are connected.

You need a VoIP server account and the relevant login details to register on it. If the VoIP server to be used is a company server, then your server administrator will be able to supply you with these details. If it is a public server, you will get the login details from your provider when you first register for the service.

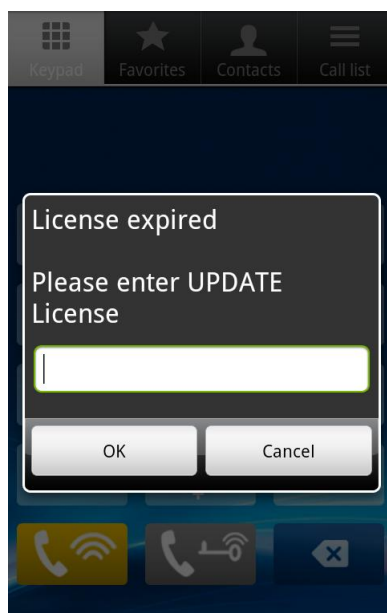
The following details are needed:

- *VoIP Server address* (either IPV4, IPV6 address or URL)
- *Login data: user name, password*
- If using an IAX server: "*IAX2 server port*"  
A standard value is preset for this field which you can see in the corresponding chapter. If settings are required which differ from this, please contact your administrator or provider.

- If using an IAX server via the Rohde & Schwarz wakeup proxy:  
"Wakeup Proxy port". By using the Rohde & Schwarz wakeup proxy you can improve the standby time of your smartphone running the TopSec Phone app as well as your availability
- If using a SIP server: "SIP server port"  
A standard value is preset for this field which you can see in the corresponding chapter. By using the SIP over TCP mode you can improve the standby time of your smartphone running the TopSec Phone app as well as your availability. In some cases, entries may also be needed in the fields "STUN server address" as well as "STUN server port". If additional settings are required or settings which differ from the standard settings, please contact your administrator or provider.

To be able to use the app for encrypted communication, you have to couple your smartphone with your TopSec Mobile unit. This coupling is done via the TopSec Mobile unit. The procedure is described in chapter "Coupling to the TopSec Mobile Unit".

Depending on the operation mode (refer to TopSec Mobile manual) the TopSec Mobile needs a license code. The code could be entered at the app. If a license code is necessary during the coupling procedure, you will be prompted to enter the license code:

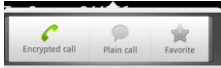





























Please enter the license code and confirm with OK.

### 3 Icons and Names

The following icons and names are used in this manual.

The displays on your smartphone may vary, depending on the manufacturer.

| Icon  | Icon/Name                | Meaning  |
|---|--------------------------|--|
| ---   | Alert                    | An alert which only has an OK button is simply informative. By touching OK or any area outside of the alert component, you acknowledge the alert so that it will no longer be displayed. |
| ---   | Context menu             | This menu is called up by touching the "Menu" button on your device. Here you can access other functions.  |
| ---   | Tab bar                  | The main navigation component on your smartphone at the top of the display. By touching the icons here, you can access the various functionalities of the app.                           |
| ---   | Touch                    | The equivalent to a mouse click. when using a touch screen.  |
|   | Quick action menu        | The quick action menu will be displayed for a list of entries in certain functions, for instance to display several phone numbers for a contact, so that quick interaction is possible.  |
|  | Launcher icon            | The icon of the app which will be shown on the home screen of your smartphone's display.   |
|  | "Configuration" icon     | The settings for the app can be called up via this icon in the context menu on the on-screen keypad. The server settings can be defined here.  |
|  | "Exit" icon              | The app can be closed via this icon in the context menu on the on-screen keypad.   |
|  | "Make discoverable" icon | The app can be made visible via this icon in the context menu on the on-screen keypad so that the smartphone can be coupled to the TopSec Mobile unit.                                   |
|  | "About" icon             | The conditions of use can be called up via this icon in the context menu on the on-screen keypad.  |
|  | "Favorites" icon         | Favorites are called up via this icon in the tab bar.  |
|  | "Contacts" icon          | The list of contacts is called up via this icon in the tab bar.  |
|  | "Keypad" icon            | The on-screen keypad to manually set up a call is called up via this icon in the tab bar.  |
|  | "Call log" icon          | The list of calls is called up via this icon in the tab bar. This shows incoming and outgoing calls.   |

| Icon  | Icon/Name                  | Meaning   |
|---|----------------------------|---|
|    | "Search" icon              | Used to access the search function in the Play Store on your Smartphone.  |
|    | "Plus" icon                | A new contact or a new phone number for an existing contact can be added via this icon.   |
|    | "Delete phone number" icon | Existing phone numbers within a contact can be deleted via this icon.   |
|    | "Delete" icon              | Contacts or entries in the call log can be deleted via this icon.<br><br>In the call log, this icon is also used to choose the mode to select all of the entries to be deleted.   |
|    | "Delete all" icon          | Every entry in the call log can be deleted via this icon.   |
|    | "Favorite" icon            | This icon allows you to add a particular number of a contact to your list of favorites, or to remove it. If the star is coloured, it shows that the number is a favorite, a grey star shows that it is not. To set the status, you just have to briefly touch the star. |
|    | "Edit" icon                | This icon takes you to editing mode for a contact.  |
|   | "Next" icon                | This icon shows that data can be entered for this field. It is used in the settings.  |
|  | Checkbox                   | Checkboxes are used for YES/NO settings. They are used in the settings.   |
|  | "Crypto call" button       | This button, starts an encrypted call.  |
|  | "Plain call" button        | This button, starts an unencrypted call.  |
|  | "Delete" button            | You can use this button to correct faulty entries.  |
|  | "Crypto call" icon         | With this icon, you can start an encrypted call via the quick action menu.  |
|  | "Plain call" icon          | With this icon, you can start an unencrypted call via the quick action menu.  |
|  | "Play Store" icon          | Touch this icon on your smartphone to go to the Play Store.   |
|  | Status Green               | The status icons are displayed in your smartphone status bar according to the status of the app. With status „Green“ both unencrypted and encrypted calls can be initiated and received.  |
|  | Status Yellow              | With status „Yellow“ only unencrypted calls can be initiated and received.  |
|  | Status Red                 | With status „Red“ calls can be neither initiated nor received.  |

## 4 Installation

### 4.1 Downloading the App via the Android Market

The TopSec Phone App can be downloaded from the Android Market onto your smartphone or it can be downloaded via the Internet onto your computer. To be able to load content, you need a Google account. Should you have already created a Google account for other services (e.g. to use email) you can use it to log on to the Android Market. If you do not yet have a Google account, you must create one before you can use the Android Market. You will find an explanation of the procedure under sections ["To Set up a Google Account on Your Smartphone"](#) and ["To Set up a Google Account on Your Computer"](#).



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**NOTICE****Download options**

The app will be available for immediate use if it is loaded directly onto your smartphone. If you load the app from Play Store to your computer, the software will automatically be copied to your smartphone. There may be some delay during this.

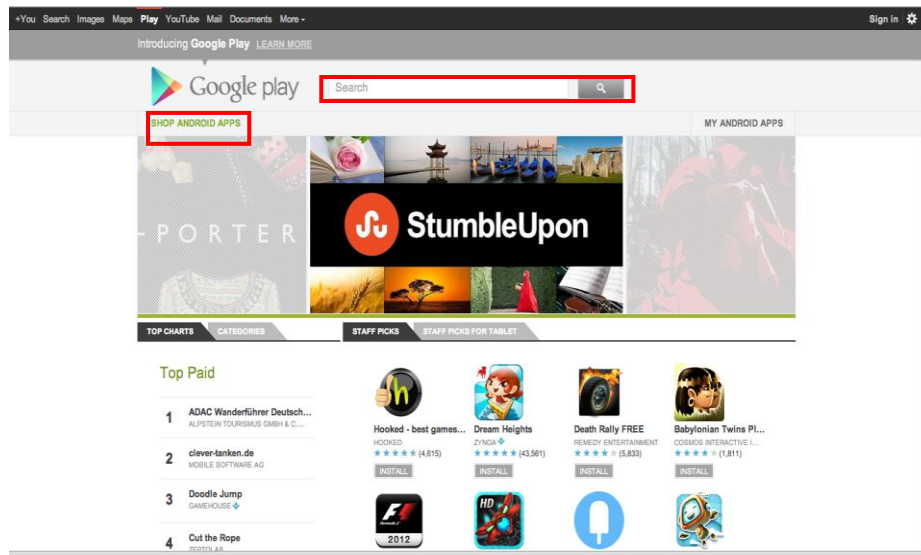
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#### 4.1.1 To Download via Play Store onto your Smartphone

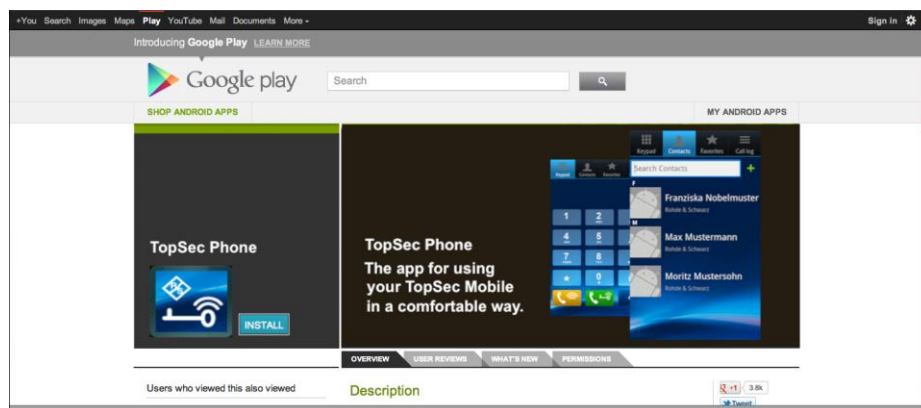
1. Call up Play Store by touching the icon  .
2. Enter the access details for your Google account. Should you not have an account, see chapter ["To Set up a Google Account on Your Smartphone"](#) for details on how to create an account.
3. Touch the "Search" icon  at the top right in Play Store.
4. An on-screen keypad will be displayed. In the search bar at the top, enter *TopSec Phone* and use the "Search" button to start searching.
5. You will be shown a list of matches which will include the TopSec Phone app.
6. Touch the "TopSec Phone" entry. You will be shown a page containing details about the app.
7. Touch the "Install" button.
8. The display will change to show you the app's rights. Touch the "Accept & download" button. The app will be downloaded.
9. On the following screen, touch the "Open" button to start the app.

### 4.1.2 To Download from Play Store onto your Computer

1. Call up Play Store using the following URL: <https://play.google.com/store>
2. The "Apps" area should be preconfigured. If it is not, please click on "Shop Android Apps" directly under the Google Play logo. In the search field, to the right of the logo, enter the term *TopSec Phone* and complete by pressing the search icon.

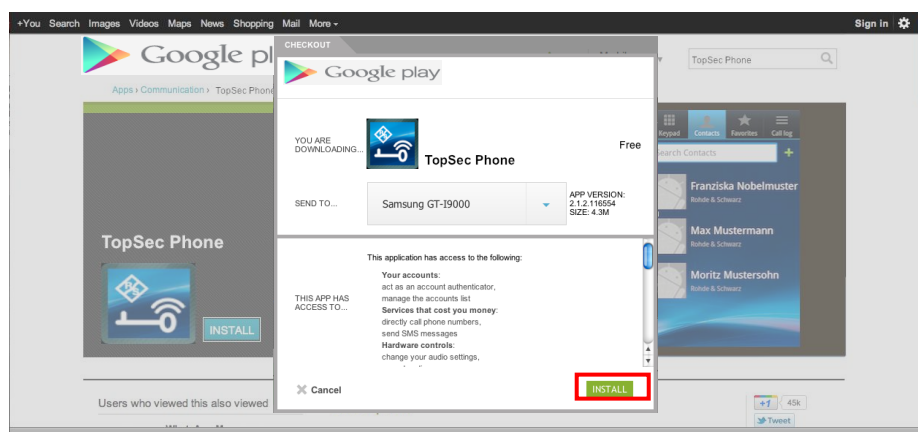


3. A list of matches will be displayed which will include the TopSec Phone app.
4. Now click on the "TopSec Phone" entry. You will be shown a page containing details about the app.
5. Click on the "Install" button. Alternatively, this action can be carried out directly on the page with all matches for your search term.





6. If you are not logged on, you will now be prompted to do so. Should you not have a Google account, see the chapter ["To Set up a Google Account on Your Computer"](#) for details on how to create an account.
7. Enter your logon details and confirm.
8. The display will change to show you the app's rights. Click on the "Install" button. The app will be downloaded and transmitted to your smartphone.

**NOTICE****Updates over Wi-Fi only**

If you have activated "Updates over Wi-Fi only" in your settings for Android Market and are not in range of a Wi-Fi or if you have deactivated Wi-Fi, then the app can only be copied to your device when you are again in range of a Wi-Fi.

### 4.1.3 To Set up a Google Account on Your Smartphone

**NOTICE****Varied handling of different Android devices**

Owing to the open nature of the Android operating system there are significant differences between manufacturers in the way the devices are used. Should the path shown in the following not work, please consult your smartphone manual for assistance on this point.

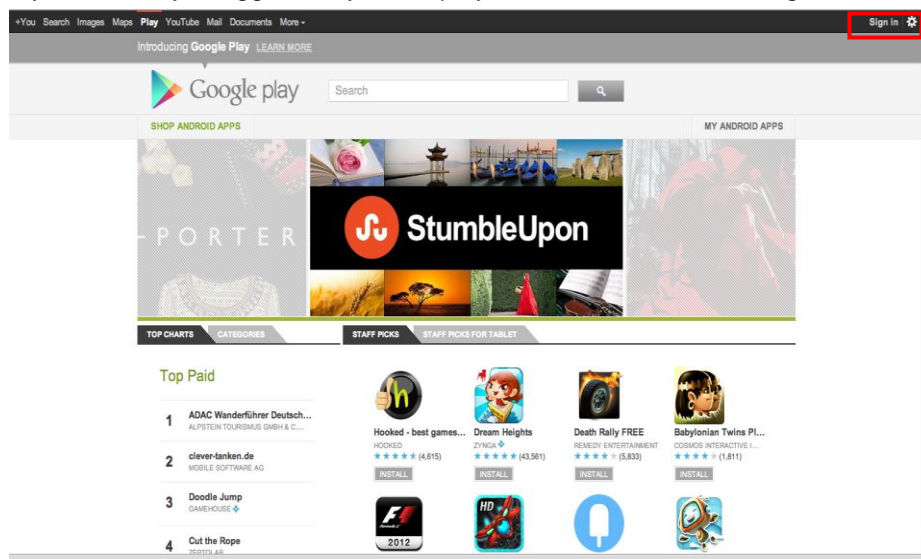
9. Call up your settings and select "Accounts and sync".
10. Touch the "Add account" button.
11. In the overview that follows, select "Google" and follow the instructions.

**NOTICE****App is free of charge**

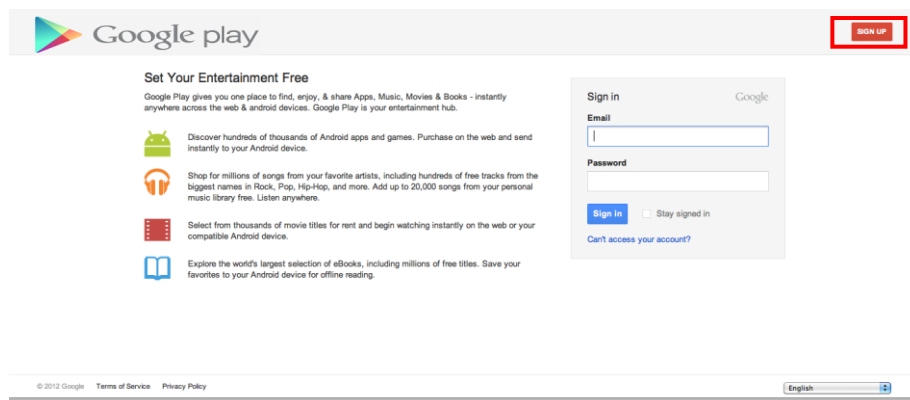
The TopSec Phone App is free of charge. You do not have to pay to download it.

#### 4.1.4 To Set up a Google Account on Your Computer

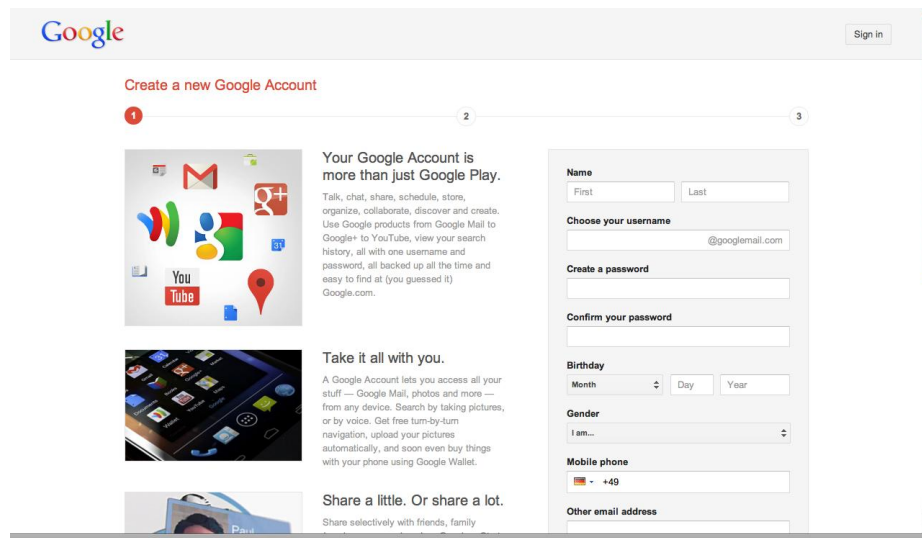
1. Call up Play Store using the following URL: <https://play.google.com/store>
2. If you are not yet logged on, your display should show the following:



3. Click on "Sign in". You will be presented with the following screen:



- Here, click on "Sign up" and you will be presented with the following display. Complete all of the fields and confirm your entries.

**NOTICE****App is free of charge**

The TopSec Phone App is free of charge. You do not have to pay to download it.


#### 4.1.5 Notes About Updates for the App

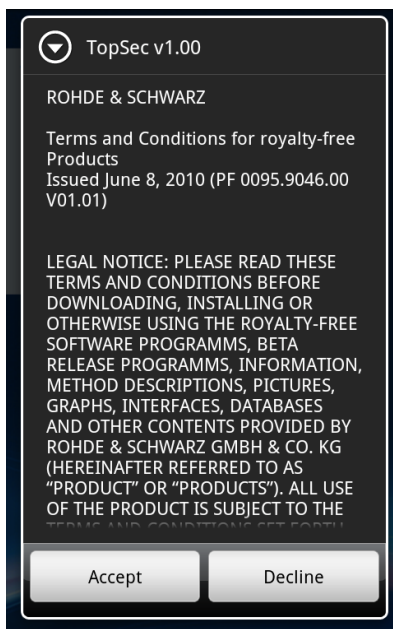
Under certain circumstances, new versions of the app may not be compatible with your TopSec Mobile unit. For this reason, you should not automatically install updates for the app.

**NOTICE****App Updates**

App updates should not be installed automatically. Consult your TopSec Mobile system administrator before you install a new version of the TopSec Phone app.

## 4.2 Launching the App for the First Time

The app is launched by touching the  icon on your home screen.



The adjacent license screen will be displayed the first time the app is launched or until you have accepted the terms and conditions.

In the app, please touch the "Accept" button to use the app.

If you touch the "Decline" button, the app will close. The next time that you launch the app, the terms and conditions will again be displayed.

## 4.3 Functional Test

The app tests whether the conditions are met to set up an encrypted/unencrypted connection with the app and the TopSec Mobile unit each time it is launched it. The screen of your smartphone will display a corresponding error message if one or more conditions are not met.

The following tests are carried out at the start:

- Is there a connection to the Internet?
- Was registration with the server successful?
- Are the TopSec Mobile unit and the smartphone coupled?
- Is Bluetooth® active?
- Is there a Bluetooth® connection between the TopSec Mobile unit and the smartphone?

Your user name and password will be sent to the server as part of the registration process. Leave the password field empty if you use a server which does not require a password.

| Situation  | Status | Options available to you  |
|--|--------|---|
| All tests successful and all conditions met                              | Green  | Encrypted and unencrypted calls are possible. Both call buttons are active.                                     |
| Bluetooth® is not active   | Yellow | Only unencrypted calls are possible. Only the button for unencrypted calls is active.                           |
| The TopSec Mobile unit and the smartphone are not coupled                |        |   |
| There is no connection between the TopSec Mobile unit and the smartphone |        |   |
| No connection to the Internet  | Red    | There is no connection to the server or to the Internet. No calls are possible. Both call buttons are inactive. |
| There is no connection to the server e.g. invalid registration.          |        |   |

The status of the app is shown permanently in the Smartphone status bar on the very top of the display. Here you will find a green icon with white key for status green, and a yellow icon with white waves for status yellow and a red one with white waves for status red.



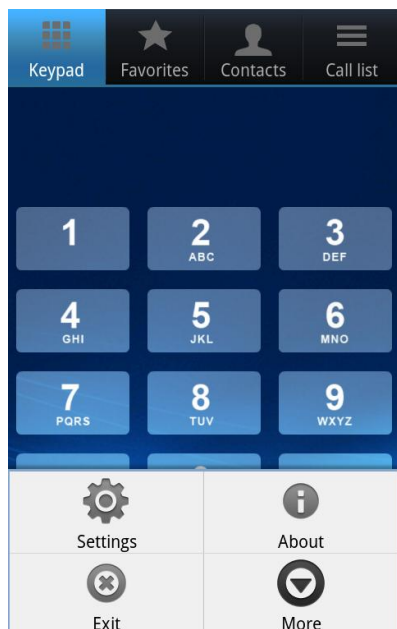
### NOTICE


#### Background mode

The app must run continuously in the background and must be connected to the server to be permanently available for encrypted calls. Using the IAX2-protocol "Register via wakeup proxy" must be active. Using the SIP-protocol "Enable SIP over TCP" must be active.

Besides the stand-by time will be increased by using one of these options as larger register intervals will be used.

## 5 Configuration and Commissioning




Configuration takes place within the app and is called up via the context menu on the on-screen keypad. By default the on-screen keypad will be shown when the app is started. In this view, touch the "MENU" button on your smartphone. The following display will be shown. Touch the "Settings" icon .

To couple your Smartphone with the TopSec Mobile unit touch "More" and then "Make discoverable". Your Smartphone now will be visible for 300 seconds for other Bluetooth® devices.

Touch "Restart Bluetooth" in case you have problems connecting your Smartphone to your TopSec Mobile unit.

Touch "Register again" to renew the registration with the chosen server.

Touch the "Exit" icon  to quit the application.

Via the "About" icon , the conditions of use can be accessed as well as the manual for the app.



This app supports IPv6 addresses. When using IPv6 addresses it is absolutely vital that the network supports IPv6 addresses. Please contact your network operator/provider or your network system administrator for further information.

### NOTICE

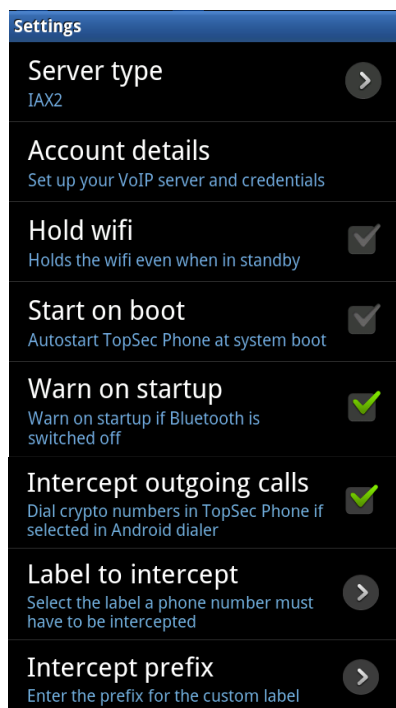
#### Language

By default the app uses the same language as the operating system. If the app does not support the language of your operating system, it will default to English.

It is not possible for the user to set the language to differ from the system language.

## 5.1 VoIP Server

By touching the "Settings" button on the context menu on the on-screen keypad, you will get to the settings for the VoIP server.



On this screen a few basic settings about how the app is to behave can be made.

Touch "Server type" to set the relevant server type. You have the choice between the IAX2 and the SIP protocol.

In the "Account details" field, you enter your VoIP server as well as your access details (see next view).

If you activate the "Hold Wifi" option the connection to the Wi-Fi will be held also in standby mode.

"Start on boot" launches the app as soon as you switch your smartphone on.

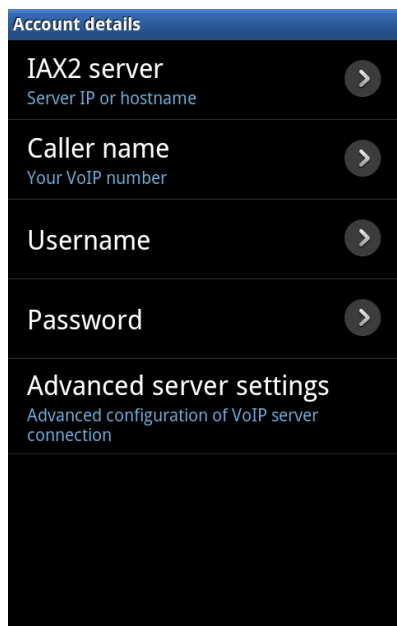
If you activate "Warn on startup", you will be warned when launching the app if your Bluetooth® interface is deactivated.

Using "Intercept outgoing calls" you can make calls via the TopSec Phone App directly from your smartphone's phone book. See section ["Calling a Contact from the Standard Phone Book"](#) to learn more about this function.

Touch "Label to intercept" to choose an existing label for the feature "intercept outgoing calls". If you want to use the default settings (TopSec), no further action is needed.

If you want to use a custom label, choose "Custom" for "Label to intercept" and then edit the custom label by touching "Intercept prefix".

| Field                      | Default value | Value range |
|----------------------------|---------------|-------------|
| "Hold Wifi"                | OFF           | ON/OFF      |
| "Start on boot"            | OFF           | ON/OFF      |
| "Warn on startup"          | OFF           | ON/OFF      |
| "Intercept outgoing calls" | OFF           | ON/OFF      |



The settings for the VoIP server are made on the "Account details" screen. When you touch an entry, a popup opens with an input field for you to enter the data. Each entry must be confirmed with "OK".

Depending on your choice the first field will be named with the chosen server type. You can use an IPv4 or IPv6 address or a DNS name for the server to use.

You have a free choice of your caller name.

In the "Username" and "Password" fields you enter the access details for the VoIP server.

Depending on whether you choose an IAX2 or SIP server, you will find different input fields in the "Advanced server settings".

Touch "Advanced server settings" to edit the enhanced settings for the server.

---

**NOTICE****Advanced Settings**

The additional details required differ between IAX2 and SIP servers. You thus have to choose the type of server before you make the advanced settings.

---

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**NOTICE****Public VoIP Servers**

Most public servers do not support the IAX protocol. We recommend using the SIP protocol when using public VoIP servers.

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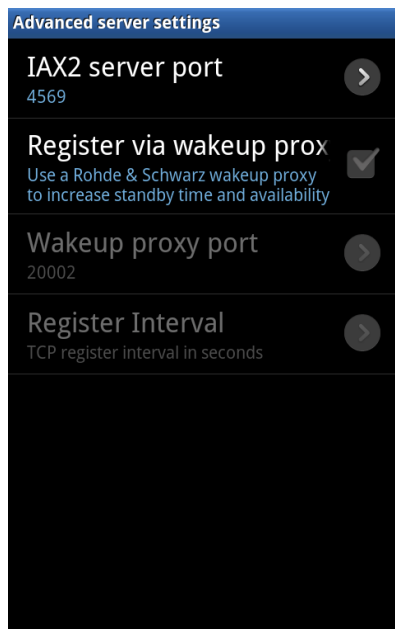
**NOTICE****Please check if connection to the VoIP server cannot be established**

If a connection to the VoIP server cannot be established, please try to establish an internet connection via your internet browser. If you cannot succeed in doing so there is no internet connection at all. In case you have internet connection, please check your user name and password as well as the "Enhanced server settings".

---



### 5.1.1 IAX2 Server Configuration – Advanced Settings



For "IAX2 server port" a default value has been set. If you need different settings, please overwrite.

Via the "Register via wakeup proxy" option you can improve the standby time of your smartphone running the TopSec Phone app as well as your availability

To use this option, please activate the checkbox. After activating the checkbox you can edit the settings for the wakeup proxy.

The "Register Interval" and "Proxy port" fields have default values. If you need different settings, please overwrite these values.

| Field                       | Default value | Value range  |
|-----------------------------|---------------|--------------|
| "IAX2 server port"          | 4569          | 1023 – 65535 |
| "Register via wakeup proxy" | OFF           | ON/OFF       |
| "Wakeup proxy port"         | 20002         | 1023 – 65535 |
| "Register Interval"         | 600           | 30 – 1200    |

### 5.1.2 SIP Server Configuration – Advanced Settings



For "SIP server port" a default value has been set. If you need different settings, please overwrite.

Via the "Enable SIP over TCP" option you can improve the standby time of your smartphone running the TopSec Phone app as well as your availability.

To use this option, please activate the checkbox. After activating the checkbox you can edit the settings for the register interval.

For "Register Interval" a default value has been set. If you need different settings, please overwrite.

Under certain circumstances the STUN server is needed to use public SIP-Servers.

The STUN detection mechanism should be activated if the device connected to the internet via a NAT router.

| Field                 | Default value  | Value range  |
|-----------------------|----------------|--------------|
| "SIP server port"     | 5060           | 1023 – 65535 |
| "Enable SIP over TCP" | OFF            | ON/OFF       |
| "Register Interval"   | 600            | 30 – 1200    |
| „Activate STUN “      | OFF            | ON/OFF       |
| “STUN server”         | stun.ekiga.net |              |
| “STUN server port”    | 3478           | 1023 – 65535 |

## 5.2 Coupling to the TopSec Mobile Unit

To be able to use the app for encrypted communication, you first have to couple your smartphone via Bluetooth® with your TopSec Mobile unit. This coupling is initiated via the TopSec Mobile unit.

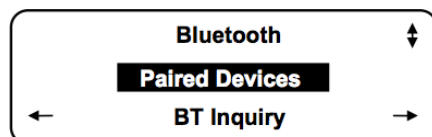


### Activating Bluetooth®

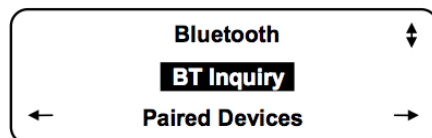
To enable connections to the TopSec Mobile unit and to thus enable incoming crypto calls, Bluetooth® must be permanently activated on your mobile phone. The Bluetooth® interface only needs to be discoverable for the pairing process.

Set up Bluetooth® pairing between your smartphone and the TopSec Mobile unit as follows:

1. Activate Bluetooth® on your mobile phone. You will find the Bluetooth® settings under "SETTINGS" – "WIRELESS AND NETWORK" – "BLUETOOTH SETTINGS".
2. Change to the app and call up the context menu on the on-screen keypad. There, select "More" and then "Make discoverable" and confirm with the "Yes" button to make the unit discoverable for the pairing process.
3. Use the navigation button on your TopSec Mobile unit to select the "Bluetooth" menu via "MENU" – "SETTINGS" – "BLUETOOTH". The menu options will be displayed:




4. Choose "BT INQUIRY" and then press the "CENTRE" or "RIGHT" button.

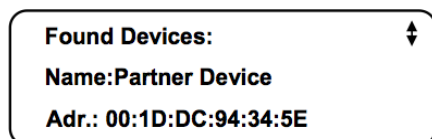


The unit will now search for Bluetooth® devices. While it is searching, the top left Bluetooth® symbol will flash and the following message will travel across the display:

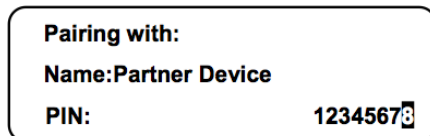


5. When the search is complete, a list of the Bluetooth® devices discovered will be shown. The  symbol will appear on the display if several devices are found. Use the "UP" and "DOWN" buttons to select the corresponding device.

Select your smartphone. Please refer to your smartphone manual to set its name.



6. Press either the "CENTRE" or "RIGHT" buttons if you would like to set up a Bluetooth® connection to the selected device.
7. The following will be displayed:



A randomly selected 8 digit number will be specified as the PIN.  
Press the "CENTRE" button to confirm the PIN shown.

8. The following will be displayed:



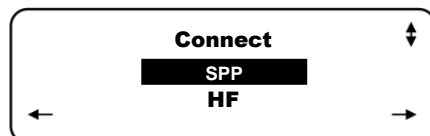
Press the "CENTRE" button to couple the two devices.  
When prompted, enter this number on your mobile phone.



#### Confirming the coupling on your mobile phone

Depending on your smartphone you may have to enter the number or just confirm the setting up of the coupling. Refer to your smartphone manual for more details on coupling. The coupling process can also be aborted on your smartphone.

9. Select the SPP profile for the connection and confirm using the "CENTRE" button.



10. A "Device paired" message will briefly be shown on the display. The TopSec Mobile device and your smartphone are now coupled via Bluetooth®.





#### Multiple coupling

You can couple your TopSec Mobile unit with up to five Bluetooth® devices. Repeat steps 3 to 8 to set up additional couplings.

## 6 Using the App

### 6.1 Starting the App

By default the on-screen keypad will be shown when the app is started. On this screen you have the option of using the context menu to access the settings  or to quit the app .

Select the required function from this screen.

### 6.2 Operating Modes

#### 6.2.1 Plain Mode

In plain mode calls the TopSec Mobile unit is not used.

The call is initiated using the TopSec Phone app. The plain mode is indicated to the called party by ringing the smartphone. The called party has to confirm the plain mode operation by accepting the call at the smartphone.

Microphone and speaker of the smartphone are used for speaking and listening.

Sequence for establishing a plain call:

1. Input of the calling number via on-screen keypad and tip on the „Plain call“ button or selection of the contact out of the contact list and tip on “Plain call” in the quick action menu
2. Smartphone of called party is ringing
3. Called party accepts the plain call by tipping the “Plain Call” button
4. The plain connection is established, Both parties are communicating
5. By tipping the „Hang up“ button the call is released either by calling or by called party

#### 6.2.2 Crypto mode

In crypto mode calls the speech data is decrypted and encrypted by the TopSec Mobile unit.

The call is initiated using the TopSec Phone app. The crypto mode is indicated to the called and to the calling party by ringing the TopSec Mobile unit. Both parties has to confirm the crypto mode operation by accepting the call at the TopSec Mobile unit.

The TopSec Mobile unit is used as a handset for speaking and listening. Microphone and speaker of the smartphone are switched off.

Sequence for establishing a crypto call:

1. Input of the calling number via on-screen keypad and tip on the „Crypto call“ button or selection of the contact out of the contact list and tip on “Crypto call” in the quick action menu
2. TopSec Mobile unit of called party is ringing
3. Called party accepts the crypto call by pressing the the “CENTRE” button at the TopSec Mobile unit
4. TopSec Mobile unit of calling party is ringing
5. Calling party accepts the crypto call by pressing the the “CENTRE” button at the TopSec Mobile unit
6. TopSec Mobile units of both parties are first displaying „Connection establishment“ and later „Keyexchange“
7. TopSec Mobile units of both parties are beeping and displaying a four digit security code
8. The crypto connection is established, Both parties are communicating
9. Either by pressing the “LEFT” button at the TopSec Mobile unit or by tipping the „Hang up“ button at the smartphone the call is released by one of the calling or called party

If the TopSec Mobile unit of the called party is switched off during an incoming crypto call then the smartphone is ringing instead of TopSec Mobile unit in step 2. The smartphone is displaying “Incoming crypto call”. If the TopSec Mobile unit is switched on now, the call will be taken over after the boot phase. TopSec Mobile is ringing and the sequence can be continued with step 3.

### 6.2.3 Forced Plain Mode

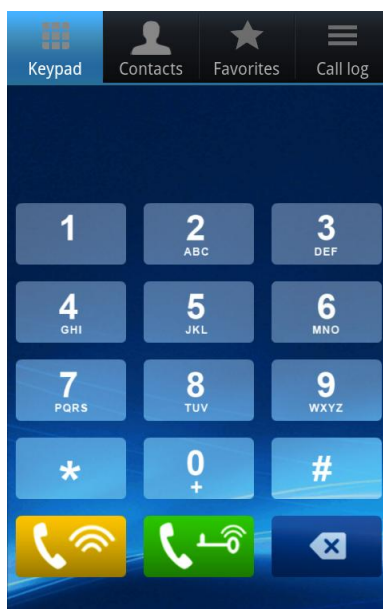
The calling party can accept an incoming crypto call and force it to plain mode if it is impossible to use the TopSec Mobile unit. This significant change of operating mode is indicated to the calling party by ringing the smartphone instead of the TopSec Mobile unit. The smartphone is displaying “Incoming plain call”. By tipping the “Plain Call” button the calling party accepts the call and confirms the change of the encryption mode.


Sequence for establishing a crypto call that is forced into plane mode by called party.:

1. Input of the calling number via on-screen keypad and tip on the „Crypto call“ button or selection of the contact out of the contact list and tip on “Crypto call” in the quick action menu

2. TopSec Mobile unit of called party is ringing
3. Called party accepts the call by tipping the "Plain Call" button on the smartphone and forces it into plain mode
4. Smartphone of calling party is ringing, "Incoming plain call" is displayed
5. Calling party accepts the plain call by tipping the "Plain Call" button
6. The plain connection is established, Both parties are communicating
7. By tipping the „Hang up“ button the call is released either by calling or by called party

### 6.3 Dialing Manually via the On-Screen Keypad



By touching the "Keypad" icon  you can manually enter a number and then initiate either an encrypted or an unencrypted call.



Encrypted / crypto call

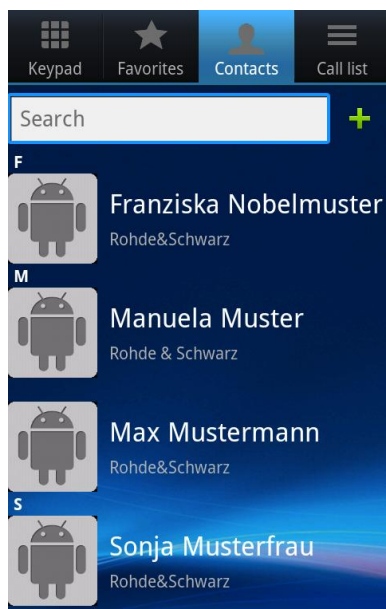



Unencrypted / plain call

The color of the buttons corresponds to the status of the app. Only unencrypted calls are possible if the status is yellow. Touch the yellow button to place a call. In this case, the green button will be deactivated (like shown in the adjacent view). If the status is green then both encrypted and unencrypted calls are possible via the corresponding button (see table in chapter ["Functional Test"](#)).

## 6.4 Contacts

### 6.4.1 Finding a Contact



Via the "Contacts" icon , you can access a list of all of the contacts stored in the app.

When you touch the search field, the keypad will be displayed. The search will start right from the first letter and the results will be refined step by step.

If you touch a name, you will be shown the details page for that contact.

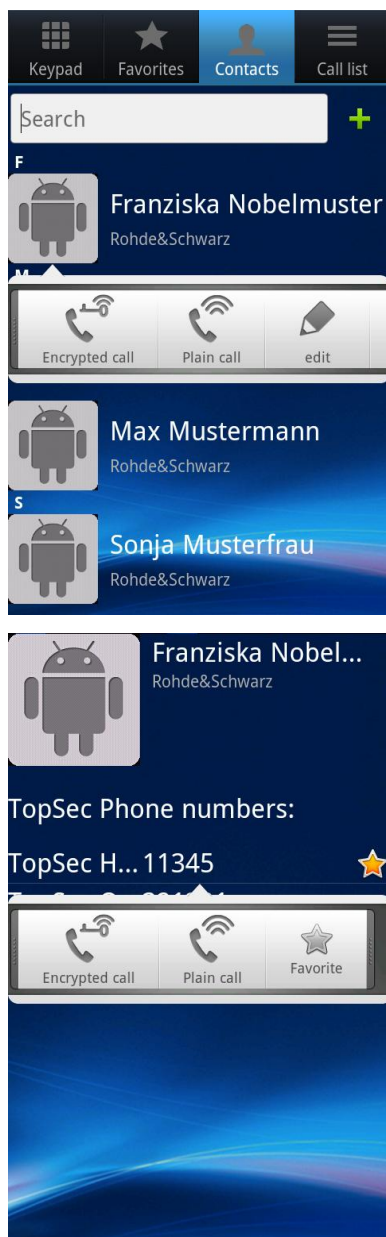
If you touch a small picture, the quick actions menu will be displayed, from which you can quickly & easily do a few things.

- Crypto call
- Plain call
- Edit contact
- Delete contact

If more than one phone number was entered for a contact, they will all be offered in a window for you to make a choice.





## 6.4.2 Calling a Contact

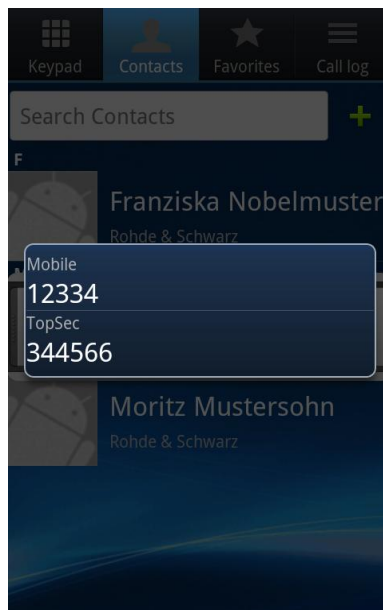


If you touch the picture of an entry in the list of contacts or in your search results, the quick action menu will be displayed. You can then directly start either an encrypted or an unencrypted call. If several phone numbers have been assigned to a contact, then all of the available numbers will be shown in a popup for you to make a direct selection.

If you touch the name of an entry in the list of contacts you will be shown the details screen for that contact. Via the details screen, you can select any of that contact's numbers. After selecting a number by touching it, a quick action menu will also be displayed here for you to select the call mode.

If you choose the "Edit" icon , you will change to edit mode for this contact and can then either edit or delete it.

By touching the "Delete" icon , you can delete an existing contact.



If a contact has been assigned more than one phone number, after selecting the call mode via the quick action menu, a popup will show all of the available numbers. Touch the required number. The call will be initiated.

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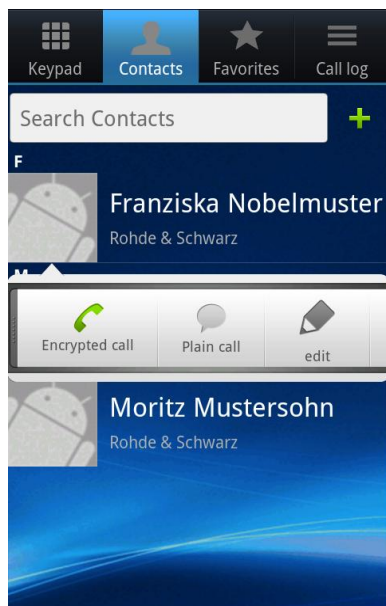
**NOTICE****Notice**

If you initiated an encrypted call, you can **not** then accept this as an unencrypted call. You must then accept the call via a TopSec Mobile unit or the connection will be closed.


For an incoming call you can accept a call which was initiated in encrypted mode in plain mode on your smartphone.


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### 6.4.3 Editing and Deleting Contacts

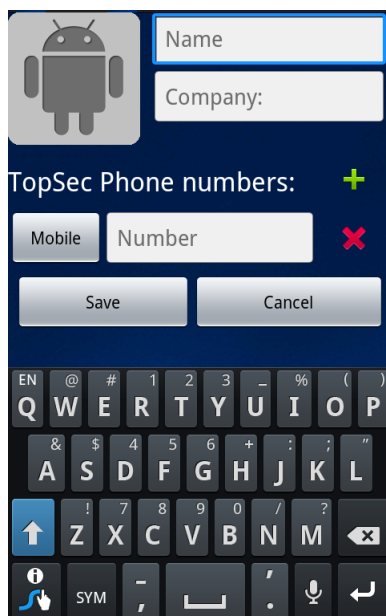
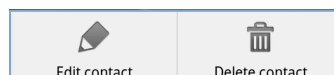


If you touch the picture of an entry in the list of contacts or in your search results, the quick action menu will be displayed.


If you choose the "Edit" icon , you will change to edit mode for this contact and can then edit it.

By touching the "Delete" icon , you can delete the contact.

Alternatively both options are available via the menu that is opened by touching the Smartphone "Menu" button.



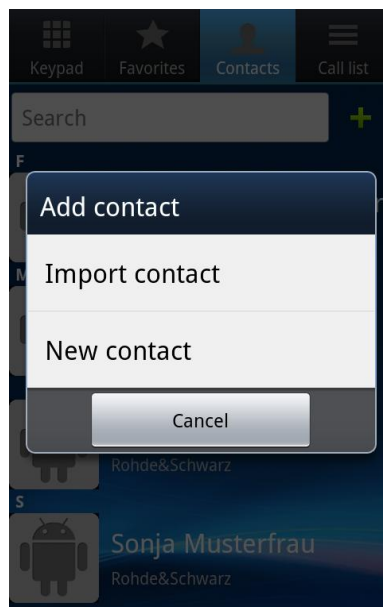
Touch the image placeholder to select an existing photo or take a new photo.


You can enter a new phone number by touching the "New"  icon at the right edge of the screen. You will be presented with two empty fields. The first field contains the type of number. This defaults to "Mobile". You can touch the field and select the required type of number from the resulting popup. By selecting "Other" you can enter your own term for the type. Please confirm your entry using "Save".

By default, the app offers Mobile, Office and Home number types.

You can enter the number by touching the free area to the right of the number type. Please confirm your entry using "Save".

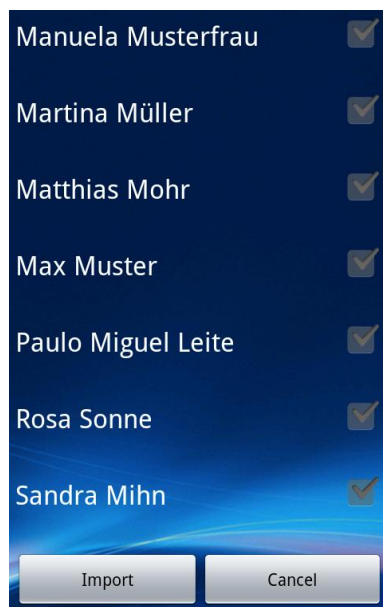
#### 6.4.4 Adding Contacts



By touching the "New" icon  you can add or import a new contact to your app phone book.

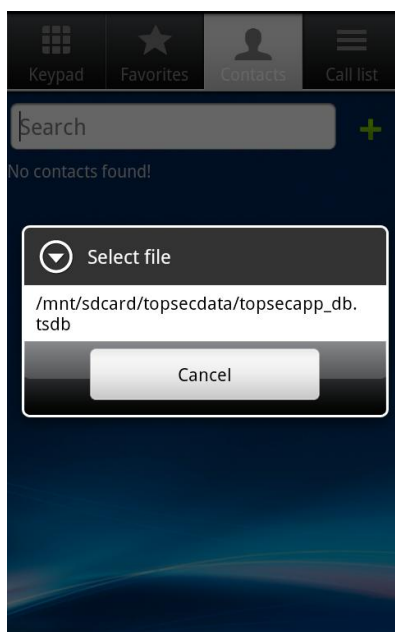
For adding a contact touch "New contact". A contact screen with empty fields will be displayed in edit mode. Please see the "[Editing and Deleting Contacts](#)" chapter for more information on how to edit contacts.

For importing a contact touch "Import contact"



A list of all your contacts in your Smartphone standard phone book will be displayed.

Check all contacts you want to import and touch "Import".



Alternatively, you can import a complete file of contacts. To do that, press your smartphone "MENU" button. In the context menu, touch "Import contacts". The app will now search your SD card for file names with the ending ".tsdb". Select the required file from the list displayed.

To copy your data to a different device, select "Export contacts" in the context menu. The app will now create a file "topsecapp\_db.tsdb" in a directory called "topsecddata" on your SD card. You can now import this file into another smartphone.


---

**NOTICE****Renaming of the Export File**

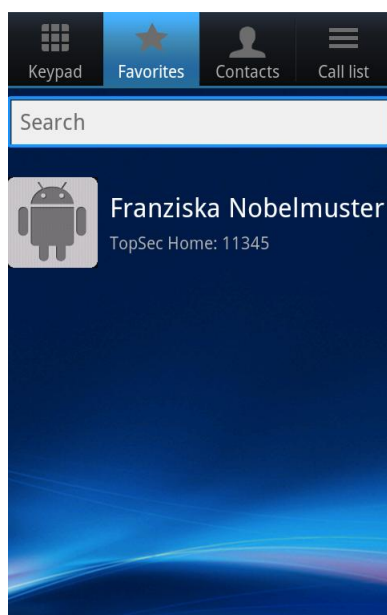
You can rename the exported file but you must retain the ".tsdb" ending.

---

## 6.5 Favorites

Select the "Favorites" menu via the favorites icon  in the tab bar to display all of the contacts which you have designated as favorite. The status of favorites is given to a number, not the entire contact. This means that you can have several phone numbers of a single contact in your list of favorites.


### 6.5.1 Calling Favorites



The same options for interaction are available in the favorites list as in the contacts list, although the number declared as a favorite will be shown underneath the name.

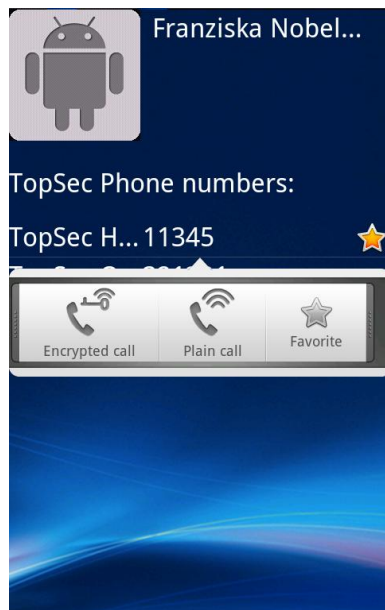
If you touch the picture of an entry in the list of contacts or in your search results, the quick action menu will be displayed. Here you can directly start an encrypted or an unencrypted call to the number which was declared as a favorite.

If you touch the name of an entry in the list of contacts you will be shown the details screen for that contact. Via the details screen, you can select any of that contact's numbers. After selecting a number by touching it, a quick action menu will also be displayed here for you to select the call mode.

If you choose the "Edit" icon , you will change to edit mode for this contact.

Touch the „Delete“ Icon  in the quick action menu to delete the contact.

## 6.5.2 Editing Favorites



Favorites are edited via the contact details. Touch the name of the contact to call up its details. You can do this in any of the list views under "Contacts", "Favorites" or "Call log".

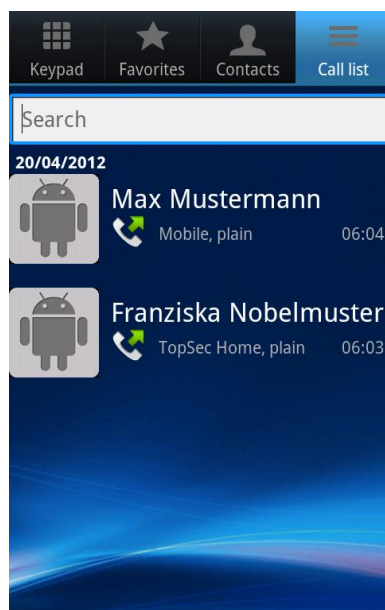
Touching a phone number will open the quick action menu. Touch the "Favorite" icon here. A colored star means that the number is not currently a favorite and touching the star will make it a favorite. A grey star means that the number is currently a favorite and touching it would remove its status as a favorite.

The favorites list is produced automatically from the entries made in the contacts and does not have to be manually produced.

## 6.6 Call Log

### 6.6.1 Calling an Entry in the Call Log

The call log shows all of the incoming (answered and missed) and outgoing calls. The icons used for this depend on the manufacturer and you should be familiar with them from your standard phone application. For each call the display shows whether it was incoming or outgoing as well as its mode.



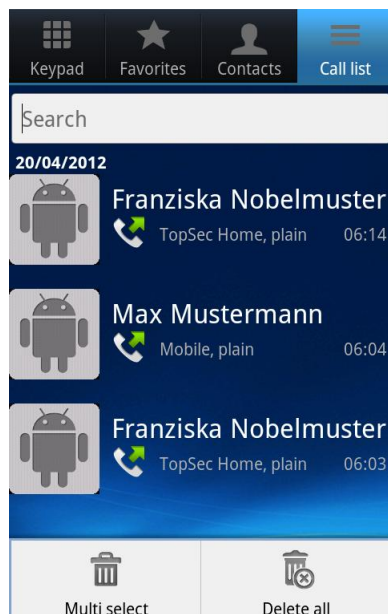
In the call list your only option is to call a contact.

Touch the picture or the name of any entry. The quick action menu will be displayed for you to choose the call mode.





### 6.6.2 Editing the Call Log

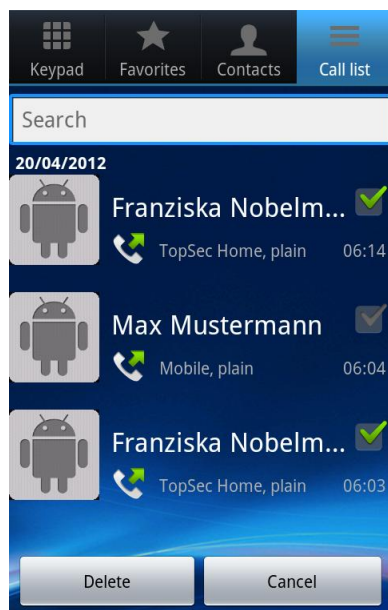


If you touch your smartphone "MENU" button, the context menu will be displayed.

Choose "Multi select" to define which entries should be deleted from the call log.

Select "Delete all" if you would like to delete all of the entries.

You can leave this screen without taking any action by touching "Cancel".



## 6.7 Calling a Contact from the Standard Phone Book

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**NOTICE****No guaranteed availability of this function**

This function is not available for all Android smartphones as it depends upon the manufacturer. To be able to use this you must be able to issue a specific name for the phone number. Please see your smartphone manual to see if (and how) this is possible.

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**NOTICE****Individual Settings**

The name of a phone number which you would like to use with the TopSec Phone App can be chosen by you. See chapter “[VoIP Server](#)” on how to edit the relevant settings.

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**NOTICE****Varied handling depending on device**

The procedure defined here may vary from manufacturer to manufacturer. If necessary, please consult your smartphone manual.

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**NOTICE****Requirements**

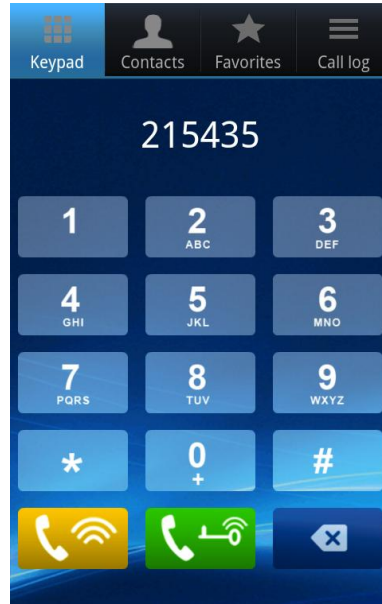
To be able to use this function, the settings in the app must be correctly configured and both parties to the call must be registered with the same VoIP server.

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Please proceed as follows:

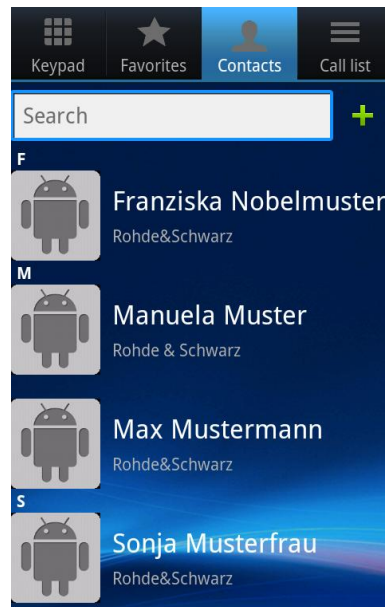
1. Call up your smartphone standard phone app.
2. Create a new contact as usual or add a new phone number for an existing contact.
3. For the type of number or for its name as a VoIP phone number, enter the chosen label and the number.
4. Now select the contact as usual and then the number to be called.

5. If you touch the number labeled with the label, chosen for interception, you will be presented with the following screen on which you only have to decide whether you would like an encrypted or an unencrypted call. Your contact's phone number has already been entered.

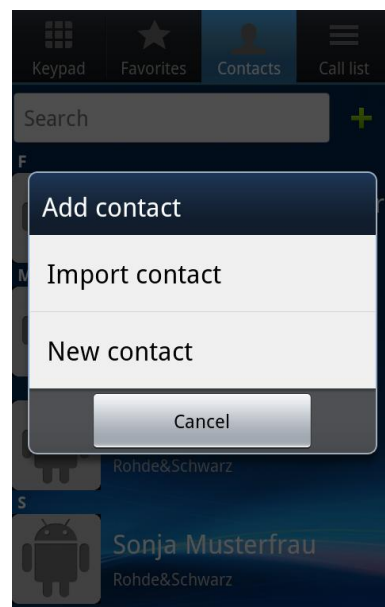


## 6.8 Step by Step: Adding a New Contact to Your Contacts

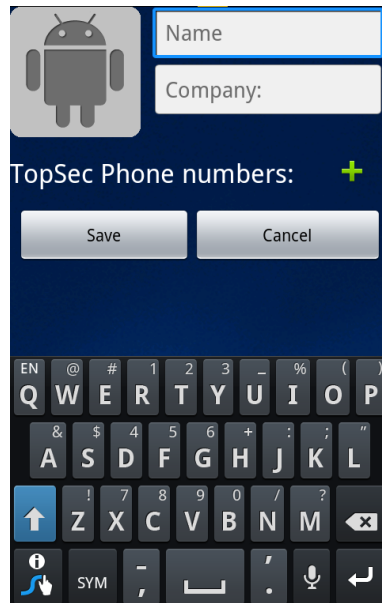
1. On the "Contacts" screen touch the "New" icon 




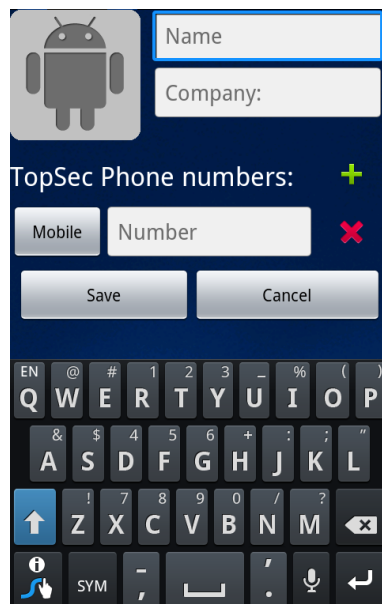
2. A popup will be displayed. Touch "New Contact" to manually add a new contact.



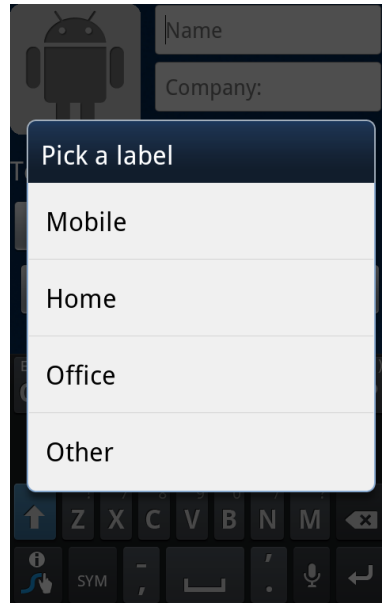
3. A screen containing empty fields for a new contact will be displayed.



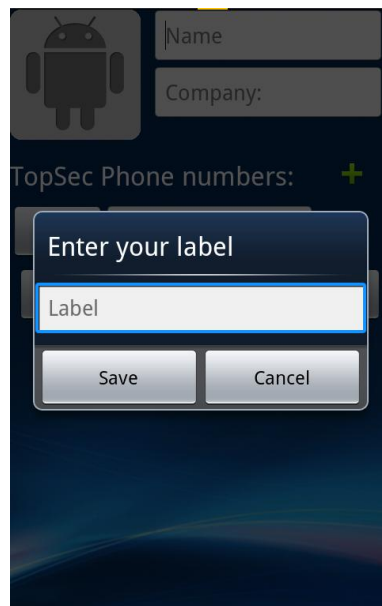
4. Now enter a name and organization (optional). By touching the image placeholder you can select an existing photo or take a new photo.
5. Now touch the "New" icon  next to "TopSec Phone numbers:". Two fields will be displayed to enter a phone number.



6. Touch the first field (it defaults to "Mobile"). You will be presented with the following display. Touch the required type of number. If you would like to enter your own label then touch "Other".



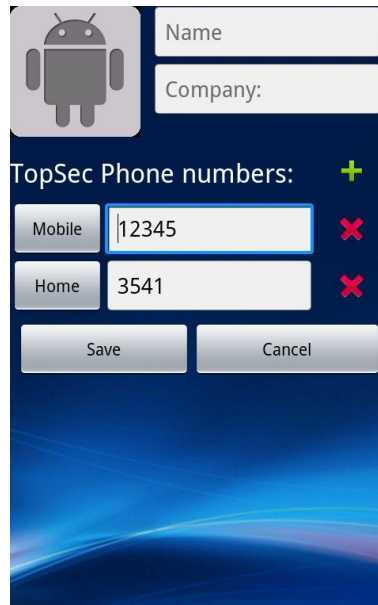
7. Now you can enter your own label.



Touch "Save" to return to the screen to enter the new contact with the label that you just entered as the type of number. This will not be saved as a permanent option under "Pick a label".

Touch "Cancel" to return to the contact details screen in editing mode.


8. If necessary, repeat steps 5 to 7 to enter a phone number. As soon as you have entered all of the data, confirm by touching the "Save" button. Your new contact will be saved. "Cancel" will discard all of the entries made.

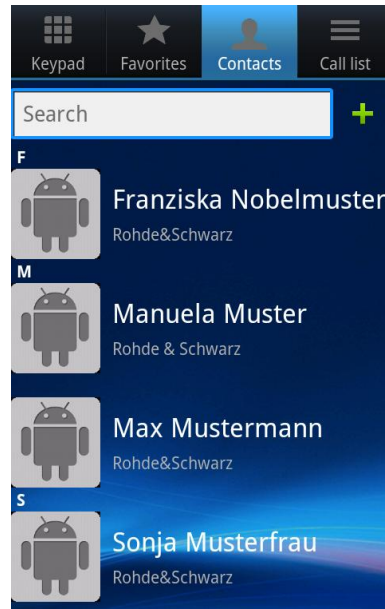


Your TopSec contacts will be kept in a separate phone book within the app. This means that **none** of the changes which you make in the app will appear in your smartphone's standard phone book.

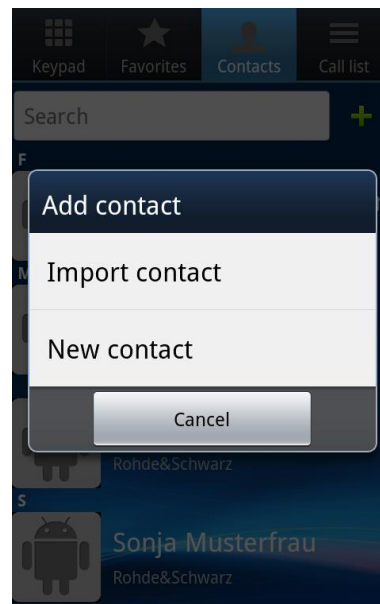
There is also no connection between any phone book in your TopSec Mobile unit and the app's phone book.

## 6.9 Step by Step: Importing a New Contact from your Smartphone Standard Phone Book

1. On the "Contacts" screen touch the "New" icon 

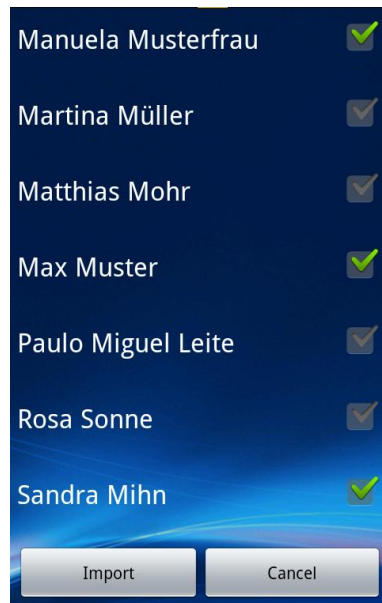



2. A popup will be displayed. Touch "Import contact".

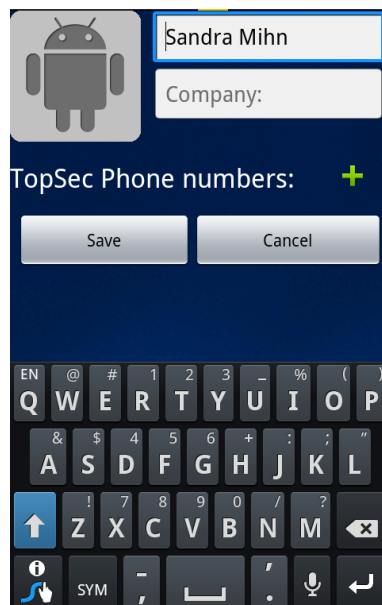




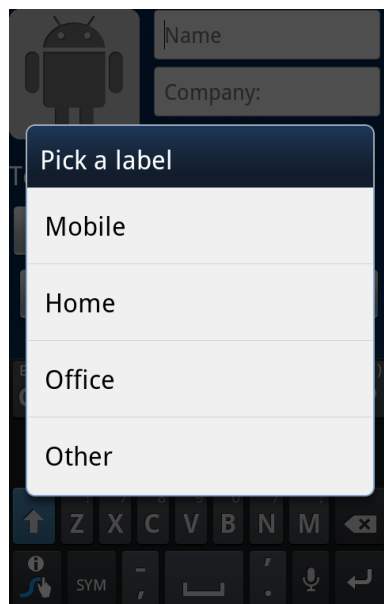
3. A list of all your contacts in your Smartphone standard phone book will be displayed. Choose the contacts you want to import and touch "Import".



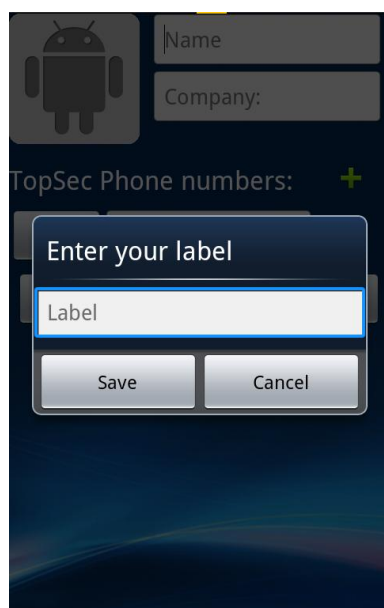
4. The list with all your contacts in your TopSec app phone book will be displayed. Now you have to add the phone numbers.
5. Touch the picture of the newly imported contact. The quick action menu is shown. Touch "Edit".
6. Touch the "New" icon  next to "TopSec Phone numbers:". Two fields will be displayed to enter a phone number.



7. Touch the first field (it defaults to "Mobile"). You will be presented with the following display. Touch the required type of number. If you would like to enter your own label then touch "Other".



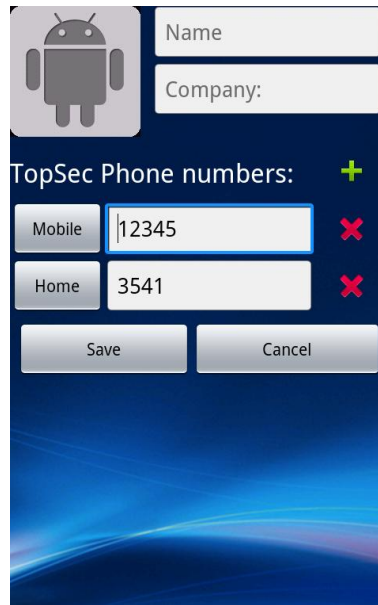
8. Now you can enter your own label.



Touch "Save" to return to the screen to enter the new contact with the label that you just entered as the type of number. This will not be saved as a permanent option under "Pick a label".

Touch "Cancel" to return to the contact details screen in editing mode.

9. If necessary, repeat steps 6 to 8 to enter a phone number. As soon as you have entered all of the data, confirm by touching the "Save" button. Your new contact will be saved. "Cancel" will discard all of the entries made.




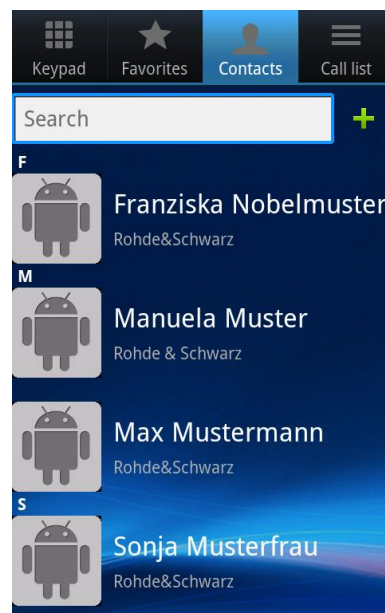
Your TopSec contacts will be kept in a separate phone book within the app. This means that **none** of the changes which you make in the app will appear in your smartphone's standard phone book.


There is also no connection between any phone book in your TopSec Mobile unit and the app's phone book.

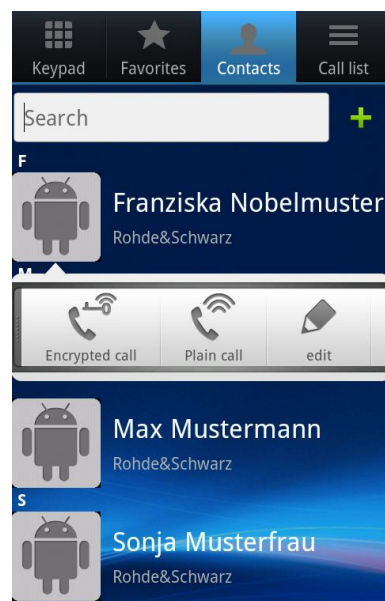
## 6.10 Step by Step: Setting Up an Unencrypted Connection

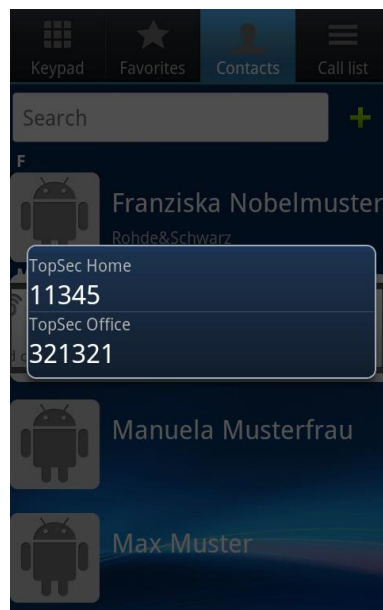
### 6.10.1 Setting Up a Connection from the List of Contacts

1. In the tab bar select the "Contacts" icon . You will be presented with the list of contacts.

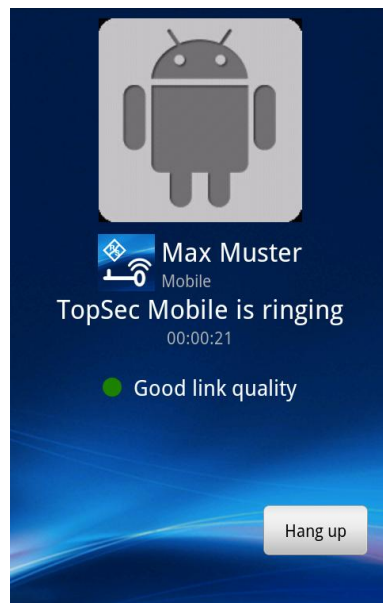


2. By touching the image for the required contact, call up its quick action menu.
3. Touch the "Plain call" icon . If the contact has more than one phone number, a popup will appear from which you can select the required number.





4. Your smartphone will now set up a VoIP connection to the selected contact. If the contact accepts the call, it will be established.
5. The following screen will then show the contact, your call mode, the duration of the call as well as the link quality.




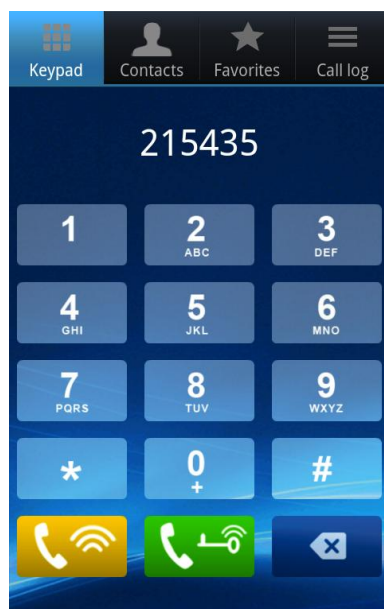
6. End the call via your smartphone.




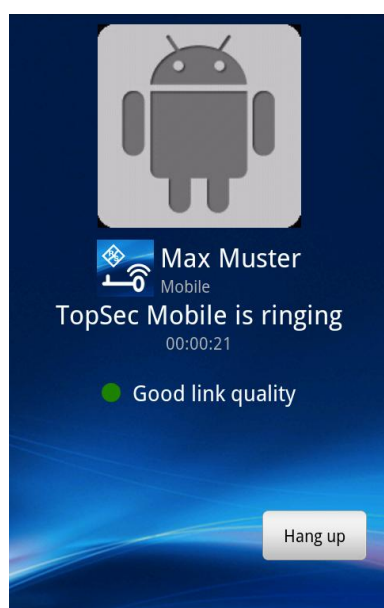
For an unencrypted call, the TopSec Mobile unit will not be needed.

### 6.10.2 Setting Up a Call from the On-Screen Keypad

1. In the tab bar select the "Keypad" icon . You will be presented with the on-screen keypad.



2. Use the keypad to enter the required number.
3. Now select "Plain call" mode by touching the "Plain call" button .
4. Your smartphone will now set up a VoIP connection to the selected contact. If the contact accepts the call, it will be established.
5. The following screen will then show the contact, your call mode, the duration of the call as well as the link quality.



6. End the call via your smartphone.




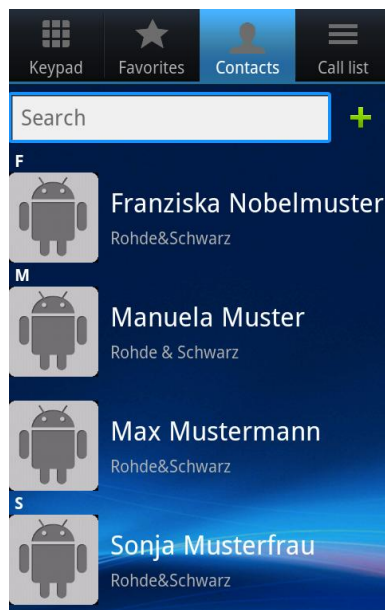
For an unencrypted call, the TopSec Mobile unit will not be needed.


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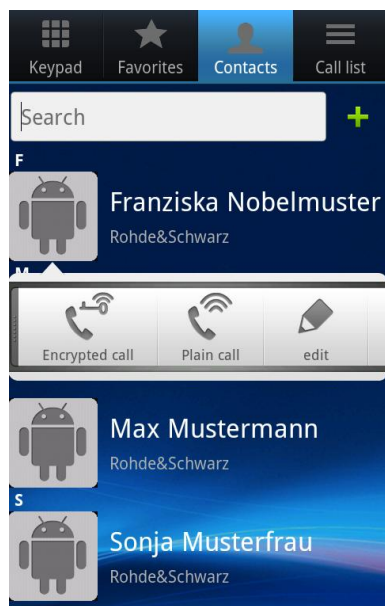
## 6.11 Step by Step: Setting Up an Encrypted Connection

### 6.11.1 Setting Up a Connection from the List of Contacts

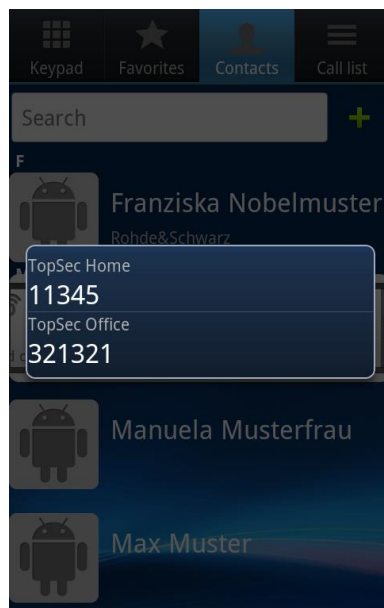
1. In the tab bar select the "Contacts" icon . You will be presented with the list of contacts.



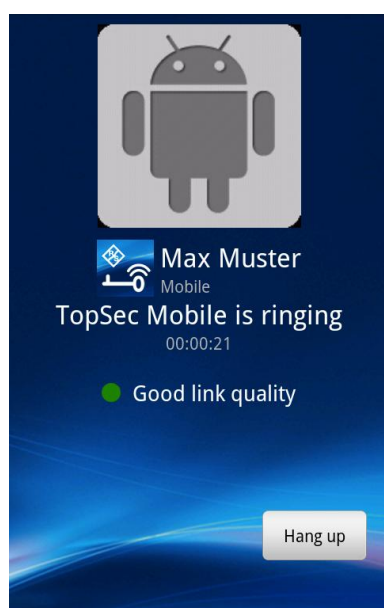
2. By touching the image for the required contact, call up its quick action menu.
3. Touch the "Crypto call" icon . If the contact has more than one phone number, a popup will appear from which you can select the required number.







4. Your smartphone will now set up a VoIP connection via the TopSec Mobile unit to the contact. If the called party accepts the call, it will be established.
5. If the called party accepts the call in crypto mode (i.e. the call is accepted via a TopSec Mobile unit), then your TopSec Mobile unit will ring and you then have to accept the call via your TopSec Mobile unit to be able to make the call in crypto mode.
6. If the called party accepts the call in plain mode (i.e. they accept the call via their smartphone) then your smartphone will ring and you can only accept the call in plain mode.
7. If the call is successfully set up, then the following will appear on the display. This shows the contact, your call mode, the duration of the call as well as the link quality.




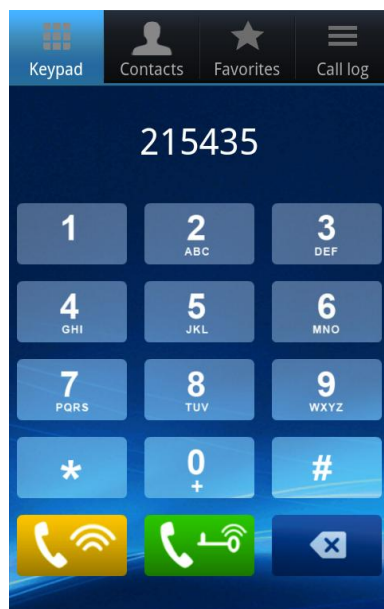
- For a crypto call you can end the call either on your smartphone or on your TopSec Mobile unit. For a plain call, you end the call with your smartphone.


**NOTICE****Changing call mode after initiation**

If you initiated an encrypted call you can **not** then accept this as an unencrypted call. You must then accept the call via a TopSec Mobile unit or the connection will be closed.

### 6.11.2 Setting Up a Call from the On-Screen Keypad

- In the tab bar select the "Keypad" icon . You will be presented with the on-screen keypad.



- Use the keypad to enter the required number.
- Now select "Crypto call" mode by touching the "Crypto call" button .
- Your smartphone will now set up a VoIP connection via the TopSec Mobile unit to the contact. If the called party accepts the call, it will be established.
- If the called party accepts the call in crypto mode (i.e. the call is accepted via a TopSec Mobile unit), then your TopSec Mobile unit will ring and you then have to accept the call via your TopSec Mobile unit to be able to make the call in crypto mode.
- If the called party accepts the call in plain mode (i.e. they accept the call via their smartphone) then your smartphone will ring and you can only accept the call in plain mode.

7. If the call is successfully set up, then the following will appear on the display. This shows the contact, your call mode, the duration of the call as well as the link quality.



8. For a crypto call you can end the call either on your smartphone or on your TopSec Mobile unit. For a plain call, you end the call with your smartphone.

---

**NOTICE****Changing call mode after initiation**

If you initiated an encrypted call you can **not** then accept this as an unencrypted call. You must then accept the call via a TopSec Mobile unit or the connection will be closed.

---

## 6.12 Step by Step: Accepting a Call

1. For an incoming call, depending on the call mode, either your smartphone (plain call) or your TopSec Mobile unit (encrypted call) will ring. Your smartphone will also show who is calling and the call mode.



2. For a crypto call you have to accept it on the TopSec Mobile unit to be able to hold an encrypted conversation. If you accept the call on your smartphone instead, an unencrypted connection will be set up. For a plain call, you can only accept the call with your Smartphone via the yellow "plain Call" Button.

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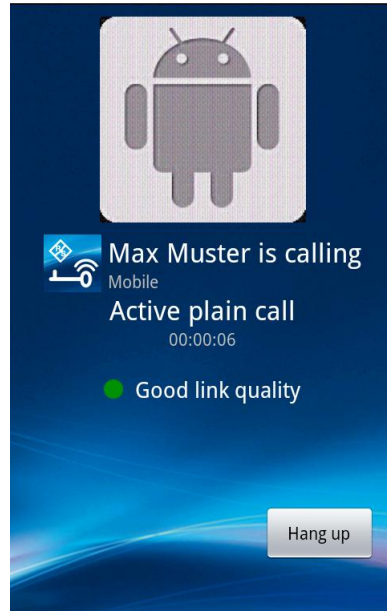
**NOTICE****Remember**

Only the smartphone can accept plain calls; the TopSec Mobile cannot accept plain calls. Encrypted calls are only possible over the TopSec Mobile.

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3. If you do not want to accept the call, press the "End Call" button to reject the call.

4. If the call is successfully set up, then the following will appear on the display. This shows the contact, your call mode, the duration of the call as well as the link quality.



5. For a crypto call you can end the call either on your smartphone or on your TopSec Mobile unit. For a plain call, you end the call with your smartphone.

# Appendix

## A Conditions of Use



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ROHDE & SCHWARZ GmbH & Co. KG, Muehldorfstr. 15, 81671 Munich, Germany

# Glossary

## D

**DNS:** Domain Name System.

**Drag & Drop:** This means selecting a part (by touching it) and moving it to release it at the required destination.

## I

**IAx:** InterAsterisk Exchange protocol.

**IAx2:** InterAsterisk Exchange protocol in version 2.

**IPv4 address:** IPv4 is the Internet protocol version 4. IPv4 addressing is used for networks carrying packets. IPv4 addresses are written in decimal, in four blocks e.g. 207.142.131.235.

**IPv6 address:** IPv6 is the Internet protocol version 6. Its main characteristic is the extension of the IP address range compared to version 4. IPv6 addresses are written in hexadecimal, with the number divided into eight blocks, each of 16 bits (4 hexadecimal digits). The blocks are separated by colons, for example: 2001:0db8:85a3:08d3:1319:8a2e:0370:7344.

## N

**NAT:** Network Address Translation, Network Address Translator.

**Navigation Bar:** This is the navigation part or strip at the top of your smartphone display.

## R

**RFC3581:** An extension to the Session Initiation Protocol (SIP) for symmetric response routing

**RTP:** Realtime Transport Protocol.

## S

**SIP:** Session Initiation Protocol. This is a protocol to localise users and to set up & shut down connections.

**SPP:** Serial Port Profile. Establishes a serial connection to the connected Bluetooth® device.

**STUN:** Session Transversal Utilities for NAT; Simple Transversal Utilities for NAT.

## T

**Tab bar:** This is the main navigation component in a smartphone at the top of the display via which the various areas of the app can be called up.

**Touch** When using a touch screen, this is the equivalent to a mouse click.

**TCP:** Transmission Control Protocol.

**U**

**UDP:** User Datagram Protocol.

**V**

**VoIP:** Voice over IP.