

TopSec Phone App for iOS User Manual



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The User Manual describes the following TopSec Phone models:

- TopSec Phone, App for iOS 5415.5050.02

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Product-Specific Safety Instructions / Additional Information

NOTICE**Emergency Calls**

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

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.

NOTICE**Tethering**

The TopSec Phone app uses the data connection (packet data) of your smartphone for VoIP communication. VoIP data or tethering may be blocked via this connection depending on the contract with your provider. The TopSec Phone app cannot be used if VoIP data or tethering is blocked. Please contact your provider for further information.

It may be necessary to alter an existing contract if the contract still has some time to run.

NOTICE**SIP Server Enabling**

For VoIP phone calls via a SIP server, your provider may have to enable the use of a SIP server.

Please contact your provider for further information.

Document Overview

This documentation on the TopSec Phone app can be downloaded from the Rohde & Schwarz web site (www.rohde-schwarz.com).

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

Conventions Used in this Document

The following conventions are used in the TopSec Phone 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, programme code	File names, commands, code examples and screen output are shown in a particular font.
"Links"	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.

To be able to initiate or accept encrypted calls, your smartphone and the TopSec Mobile unit have to be coupled or paired.

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 iPhone wherever possible.

2 Requirements

2.1 System Requirements

The TopSec Phone iPhone application supports the Apple iOS operating system from version 5.0. This application is only compatible with the iPhone and requires support for both multitasking as well as for a personal hotspot.

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 smartphone contract not include a data connection, please contact your provider for more information. To activate the data connection and the transmission of packet data, activate the "Cellular data" setting under "Settings" - "General" - "Network". If necessary, please note any instructions in 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 refer to your smartphone manual. In addition to Wi-Fi, you also have to activate the personal hotspot option.

NOTICE**Limitation when using iOS5**

From iOS version 5, you also have to activate the personal hotspot option in addition to Wi-Fi to be able to phone via Wi-Fi. You will find the option under "Settings" on your smartphone.

NOTICE**Encrypted phone calls under iOS5**

Under iOS5, a TopSec Mobile unit can only be used to enable encrypted calls via UMTS. Wi-Fi must be deactivated on the smartphone to use the TopSec Mobile unit.

If you have access to both UMTS and to Wi-Fi, then deactivating the UMTS data connection will mean that the app can only be run via Wi-Fi. If you leave the Wi-Fi area, 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 iPhone app needs the PAN Bluetooth profile to operate. Please consult your smartphone manual or get in touch with the smartphone manufacturer support department for further information about the profiles that your smartphone Bluetooth interface supports.

2.2 Conditions for Operation

For VoIP communication it is necessary to register with a VoIP server. 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 correspondingly connected.

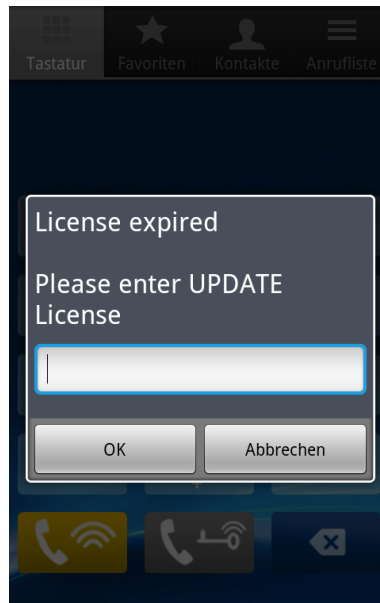
You need a VoIP server account and the relevant login details to register on it. If the VoIP server to be used is a company server, then your server administrator will be able to supply you with these details. If it is a public server, you will get the login details from your provider when you first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

The following details are needed:

- *Server address* (either its IPV4 address or its host name)
- *VoIP port*. Standard values have been preset for this field, which are described in the corresponding chapter. Please contact your administrator or provider if different settings are required.
- Login data: *user name, password*
- To be reached when the IAX protocol is used, you need to activate the Rohde & Schwarz wakeup proxy if another app is active or if your iPhone is in standby. Set the "Register via wakeup proxy" switch to "ON" and set the "Wakeup Proxy Host" to correspond to the server configuration.
- To be reached when the SIP protocol is used, you need to set the "Enable TCP" switch to "ON", if another app is active or if your iPhone is in standby. (The SIP provider must support TCP).
- *Caller ID*: Your VoIP-Number

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 under point "[Coupling Smartphone with 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.

Icon	Icon/Name	Meaning
---	Alert	An alert which only has an OK button is simply informative. By touching OK, you can acknowledge the alert so that it will no longer be displayed.
---	Drag & Drop	This means selecting a part (by touching it) and moving it to release it at the required destination.
---	Navigation bar	The navigation part or strip at the top of your iPhone display.
---	Tab bar	The main navigation component in an iPhone at the bottom of the display via which the various areas of the app can be called up.
---	Touch	The equivalent to a mouse click. when using a touch screen,
	Launcher icon	The icon of the app which will be shown on the home screen of your smartphone display.
	"Configuration" icon	The settings for the app are called up via this icon in the tab bar. Here, you can define server settings, language and ring tones.
	"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 list" icon	The list of calls is called up via this icon in the tab bar. This displays incoming and outgoing calls.
	"Search" icon	Used to access the search function in the App Store on your iPhone
	"Next" icon	This icon displays further details .for an entry in a list.
	"Plus" icon	Via this icon new entries can be made.
	"Delete" icon	This icon deletes an entry from a list e.g. a call or a favorite.
	"New" icon	This icon adds a new contact or a new entry to your list of favorites.
	"Reorder" icon	Touching and holding this icon reorders items in the list of favorites.
	"Crypto call" button	This button starts an encrypted call.

Icon	Icon/Name	Meaning
	"Plain call" button	This button starts an unencrypted (plain) call.
	"Delete" button	This button corrects faulty entries.
	"App Store" icon	This icon on your iPhone accesses the App Store.
	"iTunes" icon	This icon calls up iTunes on your computer.
	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 iTunes Store

The TopSec Phone app can be downloaded from the App Store onto your smartphone or it can be downloaded via the iTunes store onto your computer. You need an Apple ID to be able to load content. You can use an existing Apple ID (e.g. for MobileMe) to log on to iTunes or onto the App Store. You will find an explanation of the procedures to create an Apple ID under sections "[To Set up an App Store Account on Your Smartphone](#)" and "[To Set up an iTunes Account on Your Computer](#)"


NOTICE**Download options**

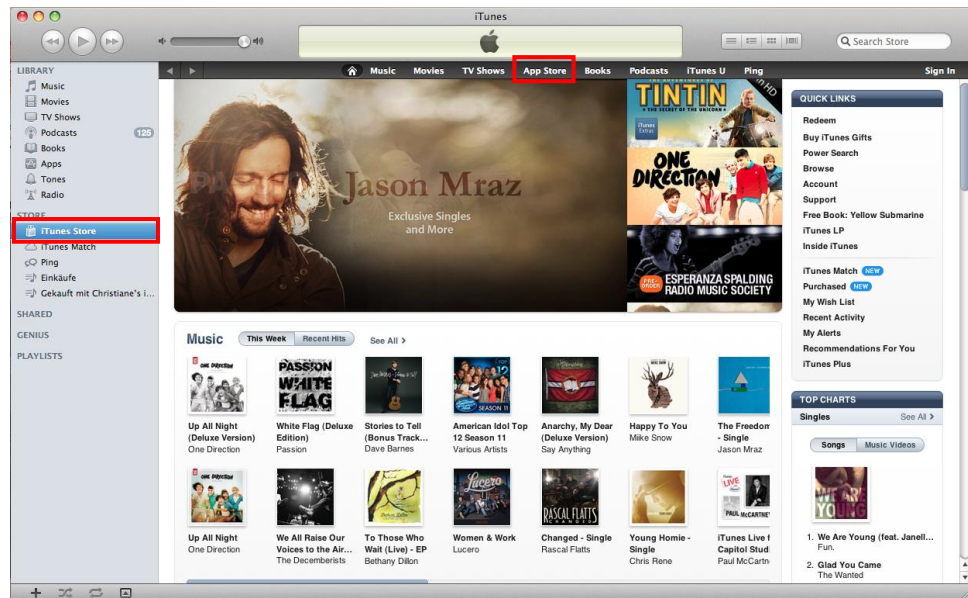
The app will be available for immediate use if it is loaded directly onto your Smartphone. You must first transfer the app from the computer to your smartphone if the app has been downloaded from the iTunes store onto your computer before you can use it.

4.1.1 Downloading via the App Store Onto Your Smartphone

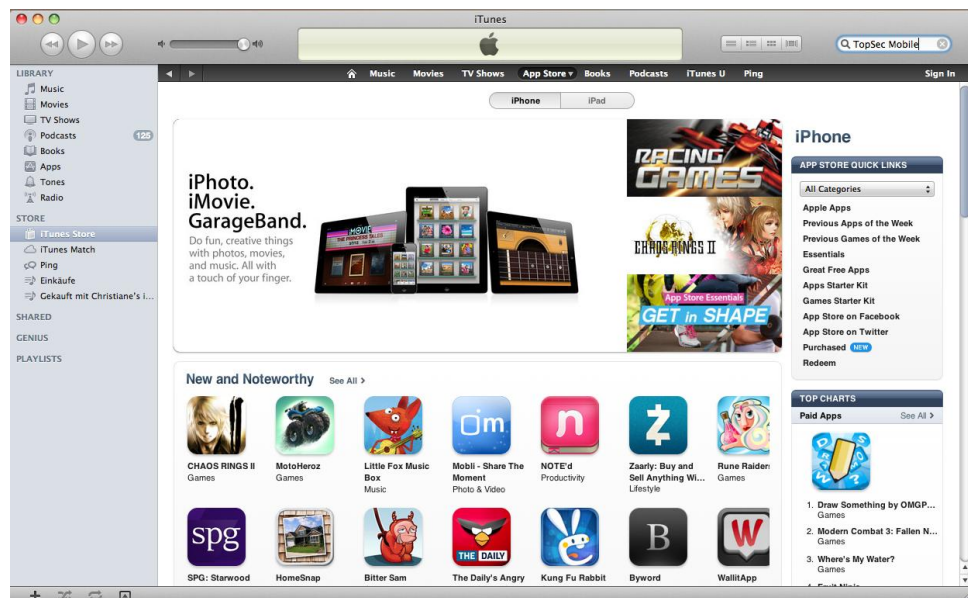
1. Call up the App Store by touching the icon. 
2. Touch the "Search" icon  in the tab bar.
3. An on-screen keypad will be displayed. In the search bar at the top, enter *TopSec Phone* and use the "Search" button to start searching.
4. You will be shown a list of matches which will include the TopSec Phone app.
5. Touch the "TopSec Phone" entry. You will be shown a page containing details about the app.
6. Click on the "Free" button. This will change color and change the name to "Install".
7. Touch the green "Install" button. You will be prompted to enter the password for your App Store account. This is the same as your iTunes account. Should you not have an account, see chapter "Setting up an App Store account" for details of the procedure involved in setting up an account.
8. Enter your password and confirm it with "OK". The App Store will go into the background and the app will be loaded. A loading bar and a message "Installation..." will show progress. You can use the app as soon as the loading bar has disappeared and you can see: TopSec Phone, beneath the app icon.

4.1.2 Downloading from the iTunes Store Onto Your Computer

1. Call up the iTunes Store by clicking on the .
2. Click the "iTunes Store" option in the side menu bar, under "STORE" and then select "App Store" in the horizontal navigation bar at the top.

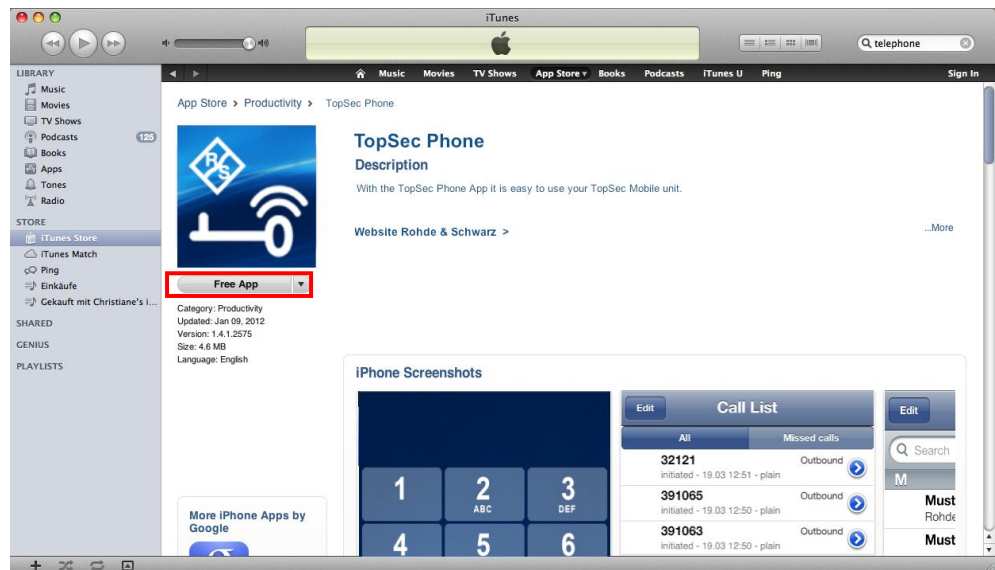


3. You will be referred straight to the App Store. Enter *TopSec Phone* in the top right search field and confirm by pressing the "Enter" key.



4. A list of matches will be displayed which will include the TopSec Phone app.
5. Click on the "TopSec Phone" entry to display a page containing details about the app.

- Click on the "Free App" button. Alternatively, this action can be carried out directly on the page with all matches for your search term.



- You will be prompted to enter the password for your iTunes Store account. If you do not have an account, see chapter "Setting up an iTunes account" for details on setting up an account.
- Enter your password and confirm it with "Get". The app will now be loaded. A loading bar will show the progress of the download. Beneath the icon "Free app" will change to "Loading". The download is complete when the loading bar has disappeared and "Loading" has been replaced with "Loaded".
- Now connect your smartphone to the computer, click on your iPhone under "DEVICES" in the side bar and click on "Apps" in the top horizontal navigation bar.



10. No further action is required if you have activated the "Automatically synchronize new apps" option. If that option is deactivated, search for TopSec Phone in your list of apps and manually activate the synchronization checkbox. Then confirm everything using "Apply". The app will then be available on your smartphone.

4.1.3 To Set up an App Store Account on Your Smartphone

1. Touch "Settings" and then "Store" on your smartphone home screen.
2. Touch "Sign In" to display several options. Choose "Create New Apple ID".
3. In the "Store" field, select your country. Touch "Done" to confirm your selection and then touch "Next".
4. The terms & conditions for the iTunes store will be displayed in the next screen. You can have them sent to you by email. Touch "Send by email". Enter a valid email address and touch "Send".
5. To agree to the terms & conditions, touch the "Agree" button at the bottom right part of the screen. Touch "Agree" when the confirmation is displayed.
6. Now enter an email address, a password and the answers to a few security questions. The email address which you enter will become your new Apple ID. Touch "Next".
Note: A message saying that your email address already exists as an Apple ID will be displayed if you attempt to create an account with an existing Apple ID, such as your MobileMe email address. Touch "Next" and in the following screen, touch "Use existing Apple ID".
7. The next step is to enter your payment details.

NOTICE**App is free of charge**

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

8. After having completed all of the fields for the payment details, touch "Next".
9. The "Confirm email address" screen will then be displayed.
10. Touch "Done" and look in your inbox to see if you have received a confirmation email from Apple.
11. Open the email and touch the "Confirm now" link in it to activate the account.
12. You will be taken to a secure page on which you will have to enter your Apple ID and password to complete the confirmation of your account.
13. When you have entered your email address and password, touch "Confirm address".

4.1.4 To Set up an iTunes Account on Your Computer

1. Open iTunes. If you do not have iTunes, you can download it on <http://www.apple.com/de/itunes/download/>.
2. Select the "Create account" option in the "Store" menu. Click "Next" on the "Welcome to the iTunes Store" screen.
3. You must agree to the terms & conditions to continue. Please activate the checkbox labeled "I have read and agree to these terms & conditions". Then click the "Agree" button.
4. Complete the form and click on "Continue".
5. Enter a valid method of payment and invoice address.

NOTICE**App is free of charge**

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

6. After you have entered the necessary payment details, click on "Create Apple ID".
7. Please check your email inbox to see if you have received a confirmation email from Apple.
8. Click the "Confirm now" link in the confirmation email received from Apple.
9. You will be taken to the Apple ID page to confirm your email address.
10. Enter the email address and password which you used to create your Apple ID. Click on "Confirm address".


4.1.5 Notes About Updates for the App

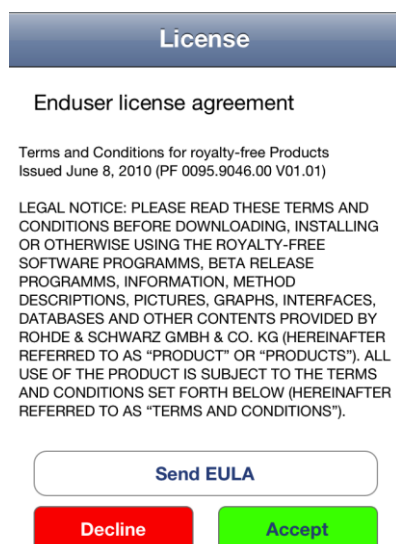
Under certain circumstances, new versions of the app may not be compatible with your TopSec Mobile unit. For this reason, you should not automatically install updates for the app. Updates for the TopSec Phone app will appear in the App Store under a different name.

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 of the license.

You can send the terms of the license to yourself. Touch the "Send EULA" button.

The email application will open. Add your email address and send the email.

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

You will not be able to use the app if you touch the "Decline" button. To exit and end the app press your iPhone's "HOME" button once to send the app into the background. Then press the "HOME" button twice and touch & hold the TopSec Phone icon until you can close it by pressing the red minus icon.

The license screen will be displayed the next time you launch the app.

4.3 Functional Test

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

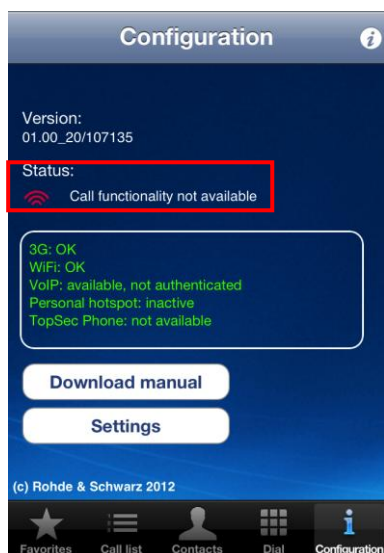
The following tests are carried out at the start:

- 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 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 is displayed on the settings-page.




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. The "Register via wakeup proxy" respectively the "Enable TCP" option must be active.

Besides the stand-by time will be increased by using the TCP wakeup proxy as larger register intervals will be used.

5 Configuration and Commissioning

Configuration takes place within the app and is called up via the  icon in the tab bar.

Choose the language settings as well as the ring tones on the overview page. You will be taken to a lower level page to make a selection. Touch the required part to select it.

The "Server" button will take you to further screens to enter the details for registering with the server.



The configuration screen displays at a glance the status of the app as well as information about the various requirements for operation e.g. WiFi, Bluetooth® or personal hotspot.

Touch "Settings" to go into editing mode so that you can make changes.

Touch the "i" icon in the navigation bar to view the terms of the license agreement and also to send them by email.

NOTICE

Saving of changes

Return to the screen above to save all the changes. The changes will be checked and any problems immediately be reported to you by an alert-message.

NOTICE

Language

The default language of the app uses is the same as the operating system. The app will default to English if it does not support the language of your operating system.

5.1 VoIP Server



Touch the "Server" field to enter the data for your VoIP server.

The "Always ON" switch defines whether to always log on to the server each time the app is started and to stay logged on. If you deactivate this option, then the connection to the server will only be set up to make a call. In this case you will not be reachable.



Enter an IPv4 address or a host name in the "Server IP address" field.

Select "Server Type" to call up a screen to choose between an IAX2 or a SIP server. Define whether you make phone calls using the IAX or SIP protocol.

The fields in the "Advanced settings" and the default value in the Server port field depend on whether you enter IAX or SIP protocol for the type of server.

Select further settings for the server via the "Advanced server settings" button.

NOTICE

Advanced Settings

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

After you have entered all of the details, please use the "Back" button to go back to the initial screen for the configuration so that the server settings can be tested. Should an error occur, the app will let you know via a corresponding message.

NOTICE**Public VoIP Servers**

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

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 IAX Server Configuration – Advanced Settings



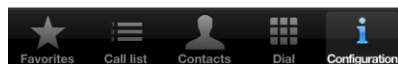
Ask your administrator or provider for details of the values to be entered.

Wakeup proxy port

0

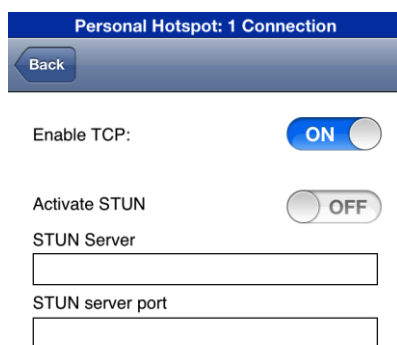
The "Register via wakeup proxy" switch must be activated if you want to keep the connection to the server. Besides the stand-by time will be increased as larger register intervals will be used.

Register via wakeup proxy



Field	Default value	Value range
"Wakeup proxy port"	-	0 - 65535
"Register via wakeup proxy"	OFF	ON/OFF

5.1.2 SIP Server Configuration – Advanced Settings

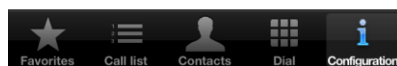


The "Enable TCP" switch must be activated if you want to keep the connection to the server.

Besides the stand-by time will be increased as larger register intervals will be used.

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
"Enable TCP"	ON	ON/OFF
„Activate STUN “	OFF	ON/OFF
STUN server	stun.ekiga.net	
STUN server port	3478	1023 – 65535

5.2 Coupling Smartphone with 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.

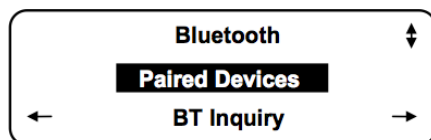


Activating Bluetooth®

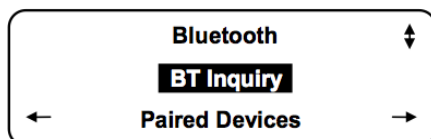
To enable connections to the TopSec Mobile unit and to thus enable incoming crypto calls, Bluetooth® must be permanently activated on your smartphone. The Bluetooth® interface only needs to be visible for the pairing process.

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

1. Activate Bluetooth® on your smartphone. You will find the Bluetooth® settings under "Settings" – "General" – "Bluetooth".
2. Switch the personal hotspot on your iPhone to "ON". The setting is under "Settings" - "Personal Hotspot". Stay in this menu to ensure that the iPhone stays active, thus remaining visible.
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:

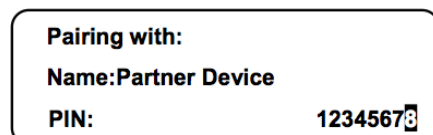


5. When the search is complete, a list of the Bluetooth® devices discovered will be shown. The ⬆ symbol will appear on the display if several devices are found. Use the "UP" and "DOWN" buttons to select the corresponding device.

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

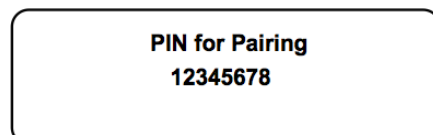


6. Press either the "CENTRE" or "RIGHT" buttons if you would like to set up a Bluetooth® connection to the selected device.
7. The following will be displayed:



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:



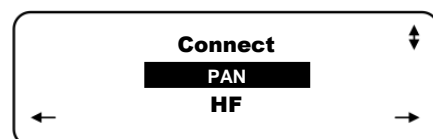
Press the "CENTRE" button to couple the two devices.
When prompted, enter this number on your smartphone.



Confirming the coupling on your smartphone

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 PAN 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.

5.3 Ring Tones

The ring tone for incoming TopSec calls differs from your smartphone standard ring tone. The app provides a variety of ring tones.



Touch the required ring tone to listen to it and then "Back" to save the chosen ring tone.

6 Using the App

6.1 Starting the App

The app will return to the last screen you were at each time it is restarted.

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 “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 “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

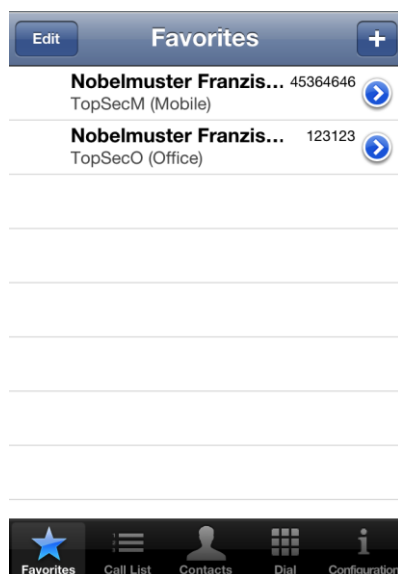
4. Smartphone of calling party is ringing, "Incoming plain call" is displayed
5. Calling party accepts the plain call by tipping the "Plain Call" button
6. The plain connection is established, Both parties are communicating
7. By tipping the „Hang up“ button the call is released either by calling or by called party


6.3 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.

You can call a favorite, delete existing favorites, or add new favorites in the "Favorites" menu.

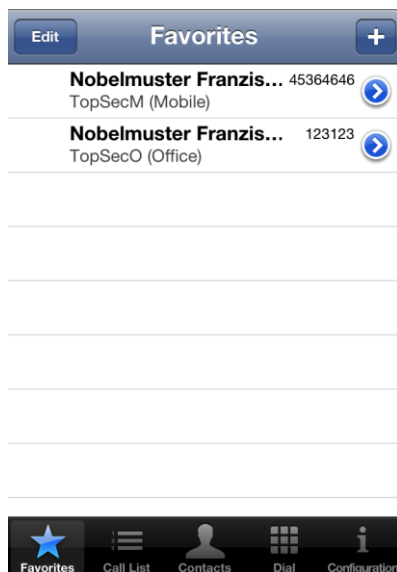
6.3.1 Calling Favorites





In the list view of favorites, choose the contact that you would like to call and touch any part of the screen to the left of the  icon. A screen will appear where you can choose the call mode (encrypted or unencrypted).

Touch the "Next"  icon to call up the details for the selected contact. Select any of the contact numbers to call or edit the contact.

6.3.2 Adding, Editing or Deleting Favorites




Touch the "Next"  icon to call up the details for the selected contact. Edit the contact details and, for example, add new numbers.


Call up the complete list of all contacts from the phone book app via the "New"  icon. You can search for and then select a contact - as you are accustomed to for your iPhone. The contact details will be displayed. Touch the required phone number to add it. You will then be returned to the adjacent view.

The "Edit" button will display the active view of your favorites.



Reorder the entries and delete existing entries in the active list view.

Touch the "Delete"  icon to call up a delete button for the selected entry. Touch this button to delete the entry.

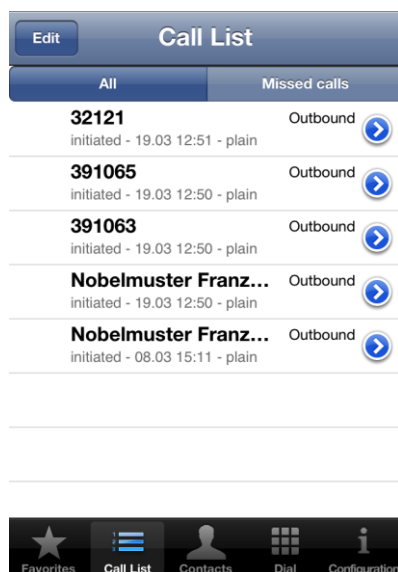
Change the order of the entries using drag & drop with the "Reorder"  icon at the right hand end of each entry. The entry can be dragged up or down. It will be placed at the location where you release it.

Touch the "Done" button to return the list view to the view mode.

6.4 Call List

6.4.1 Calling an Entry in the Call List

The call list shows all of the incoming (answered and missed) and outgoing calls. Missed calls will be shown in red. The display shows whether each call was incoming or outgoing as well as its mode (encrypted/unencrypted).



Toggle between the various views via the "All" & "Missed" options in the navigation bar.

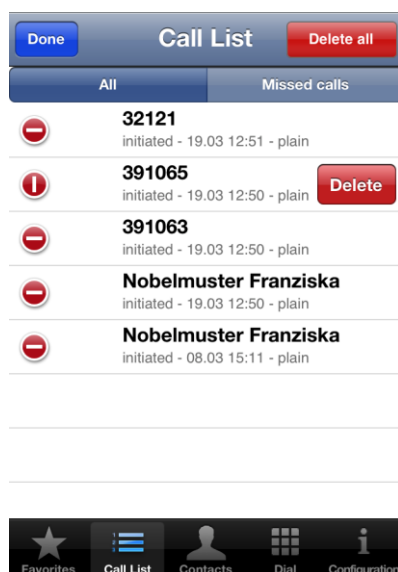
Choose the contact that you want to call. Touch any part of the screen to the left of the "Next" icon. A screen will appear and you can choose the call mode (encrypted or unencrypted).

Touch the "Next" icon to call up the details for the selected contact. Here you can call your contact by selecting any of the contact numbers.

See chapter "Contacts" for other options on the contacts screen.

The "Edit" button will present the edit mode for the call list.

6.4.2 Editing the Call List



Touch the "Delete" icon to display a delete button for the selected entry as well as a "Delete all" button, top right in the navigation bar.

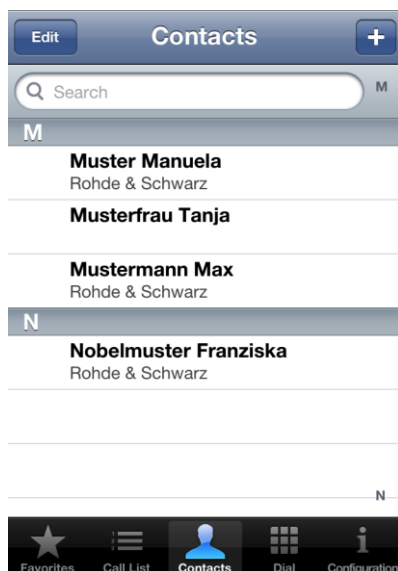
Touch the "Delete" button to delete the individual, selected entry. The screen will stay in edit mode. You can delete other entries.


Touch the "Delete all" button to delete all the entries in the call list.

Touch the "Done" button to return to view mode.

6.5 Contacts

6.5.1 Finding a Contact




Access a list of all of the contacts stored in the app via the "Contacts"  icon.

Use the alphabetic list on the right to quickly navigate between the entries.

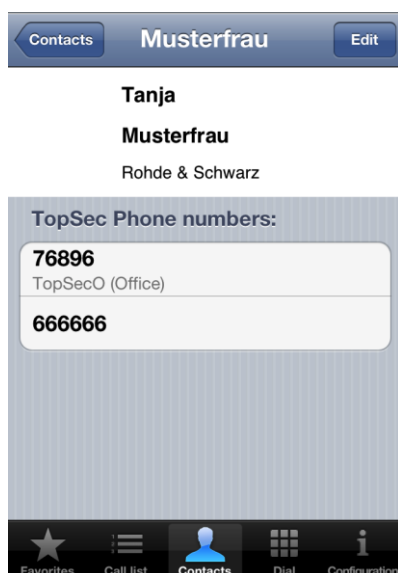
Touch the search field, to display the keypad. The search will start right from the first letter and the results will be refined step by step.

Touch a name to display the details page for that contact. Select whether to call the contact or edit it.

Touch the "New"  icon to add a new contact to the app phone book. A new contact can either be entered manually or imported from your iPhone phone book.

To delete a contact touch the "Edit" button and then touch the "Delete"  icon to display a delete button for the selected entry. Touch the "Delete" button to delete the contact.

6.5.2 Calling a Contact

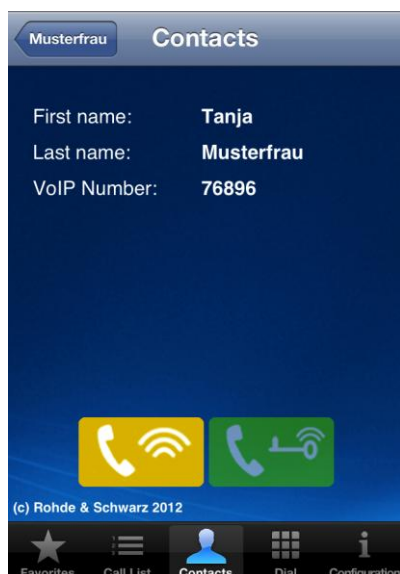


Touch an entry in the list of contacts or in the search results, to display the details screen for that contact.

The screen can also be called up from your favorites or from the call log.

Select any of the contact numbers via the details screen. Select, i.e. touch a number to display the screen to choose the call mode.

Touch the "Edit" icon to change to edit mode for this contact. See chapter ["Editing a Contact"](#).



The name and number of the contact you are calling will be displayed on the screen.

Touch on of the two call buttons to specify whether to initiate an encrypted or 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”](#)).



Whenever you call a contact, you will be taken to a screen to choose the call mode after selecting the phone number. Specify if the call is to be encrypted or unencrypted.

The only exception to this is if you manually dial a number via the on-screen keypad. Choose the call mode by selecting the corresponding button.

NOTICE

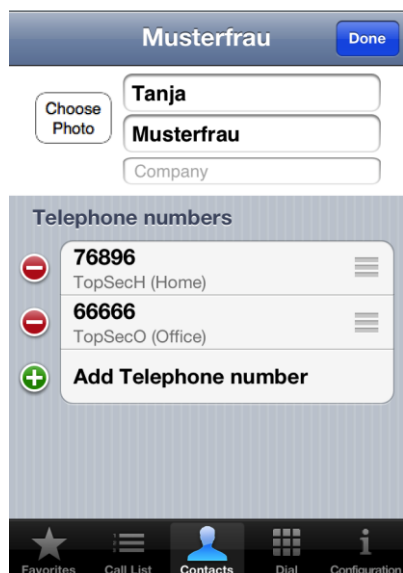
Notice

You **cannot** accept an unencrypted call if you initiated an encrypted call. You must 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. In this case, you accept the call via your smartphone.

6.5.3 Editing a Contact

Touch the "Edit" button on the screen showing the contact details to enter into edit mode for the selected contact. The following screen will appear:



You can select an existing photo or take a new photo by touching the image placeholder.

To enter a new phone number touch the "Add Telephone number"  field.

A screen appears where you can enter the number and its number type.

Touch the "Number type" field to display the "Select number type". Select the required type of number.

By default, the app offers TopSecM (mobile), TopSecO (office) and TopSecH (home).

You can also create your own types of numbers.

Save all changes with the "Done" button.

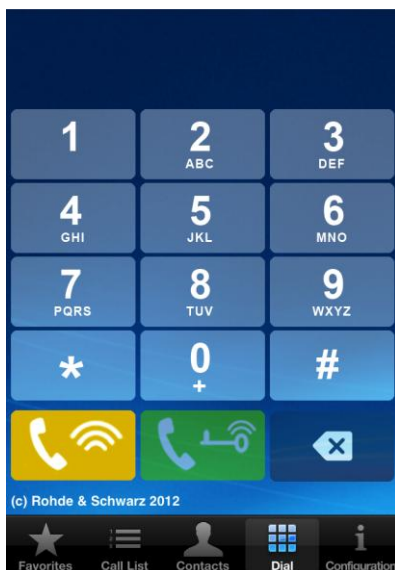



It is possible to define your own type of number on the screen and to select the type of number in the editing view.

Touch the "Add Telephone number Type" field. A "Number Type" field will appear on the next screen. Enter the required name and confirm your entry via the "Save" button.

The entered type of number will be permanently available.

6.6 Dialing Manually via the On-Screen Keypad



Touch the "Keypad"  icon to manually enter a number and to place 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"](#)).

6.7 Step by Step: Adding a New Contact to Your Contacts

A new contact can be created by importing it from your iPhone standard phone book or by entering it manually.

6.7.1 Manually Entering a Contact

1. Touch the "New"  icon on the "Contacts".
A screen showing the options will now be displayed.



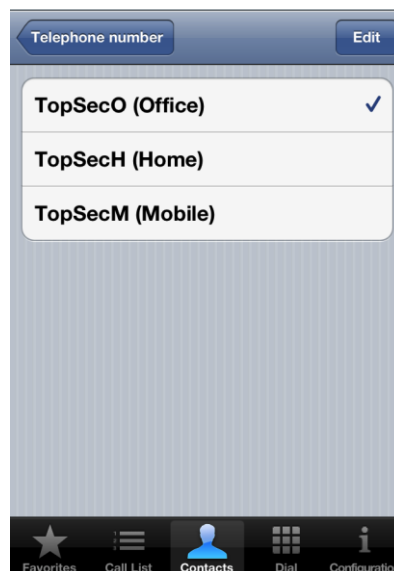
2. Select "New contact" to manually enter a contact.
An empty screen will appear.



3. Enter first name, surname and organization (optional). Touch the image placeholder to select an existing photo or take a new photo.
4. Touch "Add telephone number".



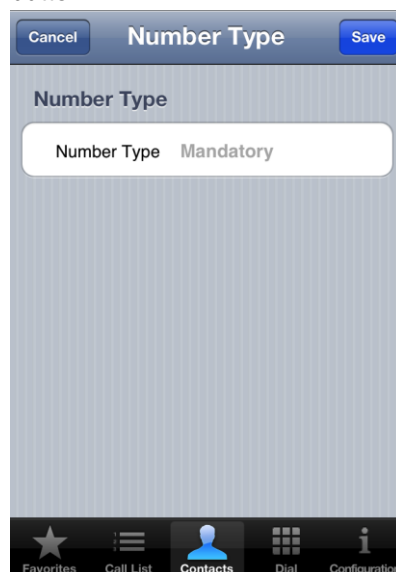
5. Enter the phone number. Then touch the "Number Type" field to specify the type of number.
6. Touch the required type to select the number from the list. Touch "Edit" to enter your own label.



7. Now touch "Add Telephone number type".



8. Enter your own label in the "Number Type" field and confirm with the "Save" button.



The "Cancel" button will return to the "Select Number Type" screen without creating a label.

9. Confirm with the "Save" button on the screen to enter the phone number. You will return to the contact details screen in editing mode.

The screenshot shows a mobile application interface for editing a contact's telephone number. At the top, there is a header bar with a 'Cancel' button on the left, the title 'Telephone number' in the center, and a 'Save' button on the right. Below the header, there is a text input field containing 'Telephone nu...' followed by '6544'. Underneath this field is a section titled 'Number Type' with a dropdown menu currently showing 'TopSecO (Office)' and a right-pointing chevron. At the bottom of the screen is a navigation bar with five icons: a star for 'Favorites', a list icon for 'Call List', a person icon for 'Contacts' (which is highlighted), a grid icon for 'Dial', and an information icon for 'Configuration'.

10. If necessary, repeat steps 4 to 6 to enter a phone number. As soon as you have entered all of the data, confirm by touching the "Done" button. Your new contact will be saved.


The screenshot shows the contact details screen for a contact named 'Musterfrau'. The header bar at the top has a 'Contacts' button on the left, the contact name 'Musterfrau' in the center, and an 'Edit' button on the right. Below the header, the contact's name 'Tanja' is displayed, followed by 'Musterfrau' and 'Rohde & Schwarz'. Below this is a section titled 'TopSec Phone numbers:' which contains two text input fields. The first field contains '76896' with 'TopSecO (Office)' written below it. The second field contains '666666'. At the bottom of the screen is the same navigation bar as in the previous screenshot, with the 'Contacts' icon highlighted.

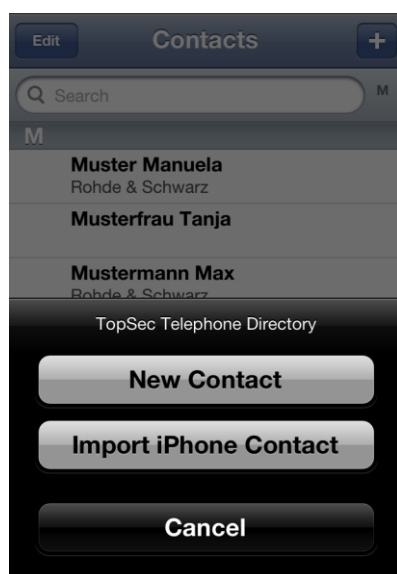


Your TopSec contacts will be kept in a separate phone book within the app. This means that **none** of the changes which you make in the app will appear in your iPhone standard phone book.

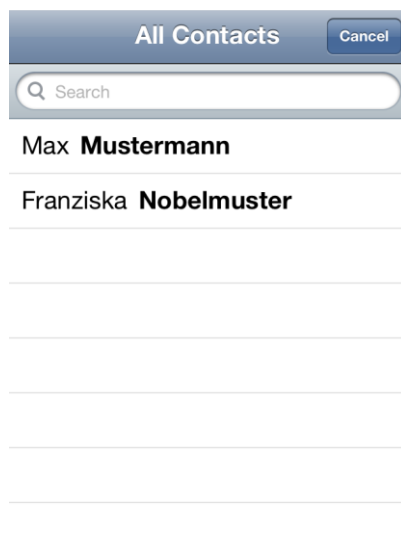
There is also no connection between the phone book in your TopSec Mobile unit and the phone book of the app.

6.7.2 Importing Contacts from your iPhone

1. Touch the "New"  icon in the "Contacts" screen.
A screen showing the options will now be displayed.



2. Select "Import iPhone Contact". The list of contacts will appear with all of the contacts stored in the iPhone standard phone book.



3. Touch the name to select the required contact. The details for that contact will be shown. Touch a phone number to copy it as a TopSec contact. The contact will immediately appear in the list of contacts.
4. By touching the entry, you can edit the contact. To add or edit more phone numbers, please refer to the corresponding paragraphs under chapter "[Manually Entering a Contact](#)".



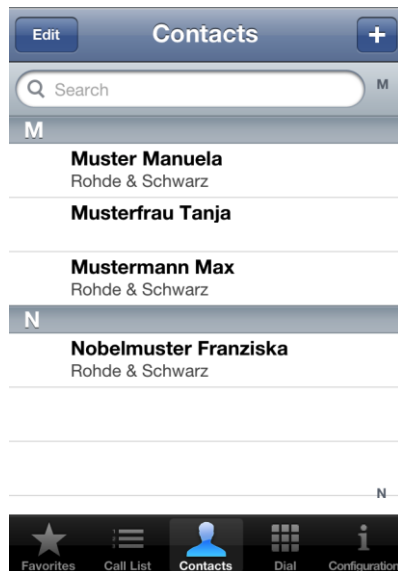
Your TopSec contacts will be kept in a separate phone book within the app. This means that **none** of the changes you make in the app will appear in your iPhone standard phone book.

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

6.8 Step by Step: Setting Up an Unencrypted Connection

6.8.1 Setting Up a Connection from the List of Contacts

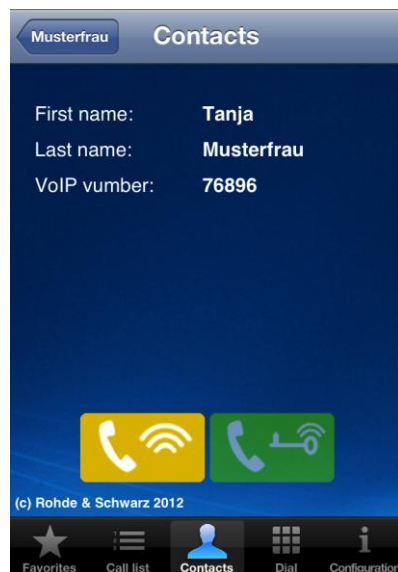
1. In the tab bar select the "Contacts"  icon. The list of contacts will appear.




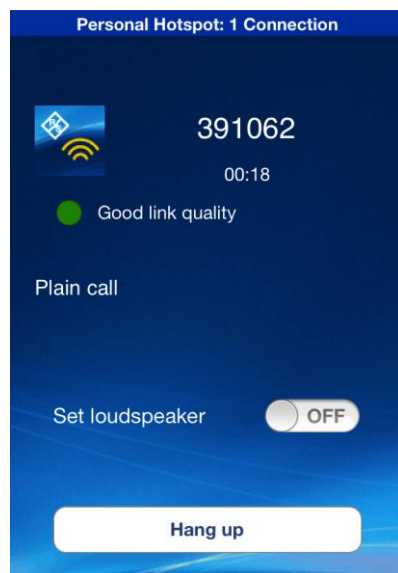
2. Select the required contact by touching the corresponding line in the list of contacts.



3. Touch the number which you would like to dial.
The window will open to select the call mode.



4. Now select "Plain call" mode by touching the "Plain call"  button.
5. Your smartphone will now set up a VoIP connection to the selected contact.
The call will be established if the called party accepts it.
6. The following screen will show the contact, your call mode, the duration of the call as well as the link quality.




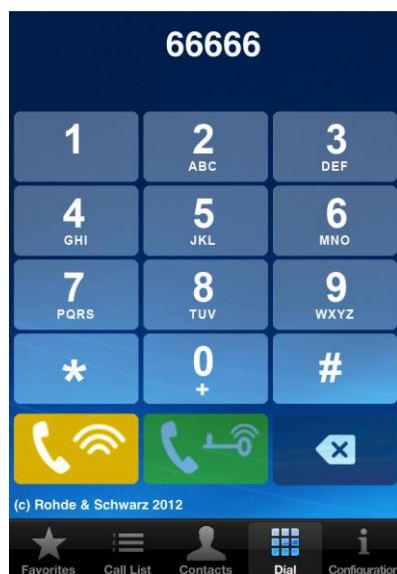
7. End the call via your smartphone.




The TopSec Mobile unit is not needed for an unencrypted call.

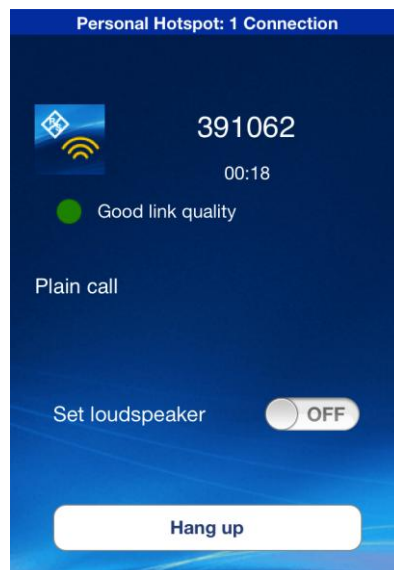
6.8.2 Setting Up a Call from the On-Screen Keypad

1. In the tab bar select the "Keypad" icon  .
The on-screen keypad will appear.



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.
The call will be established if the called party accepts it.

5. The following screen will show the contact, your call mode, the duration of the call as well as the link quality.




6. End the call via your smartphone.

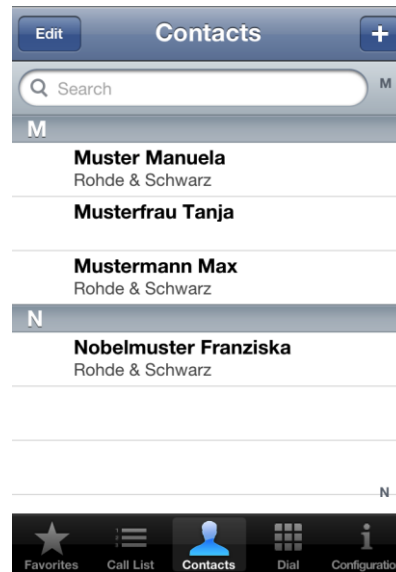


The TopSec Mobile unit is not needed for an unencrypted call.

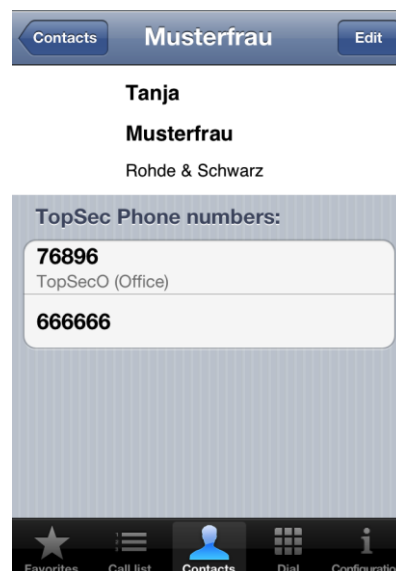
6.9 Step by Step: Setting Up an Encrypted Connection

6.9.1 Setting Up a Connection from the List of Contacts

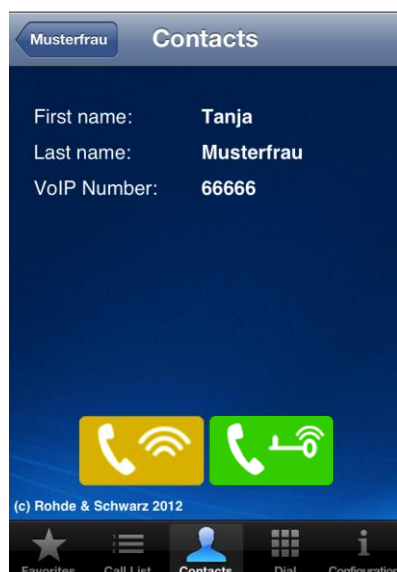
1. In the tab bar select the "Contacts"  icon.
The list of contacts will appear.




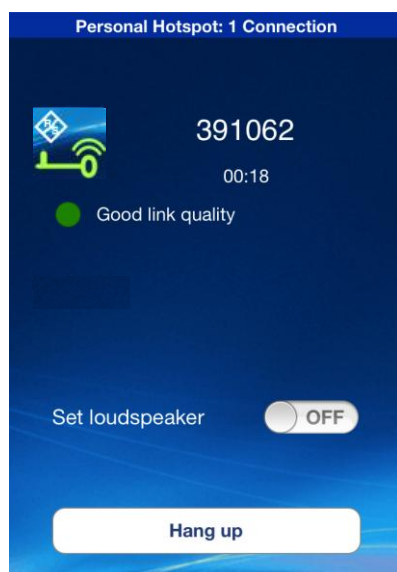
2. Now select the required contact by touching the corresponding line in the list of contacts.



3. Touch the number which you would like to dial.
The window will open to select the call mode.



4. Select the "Crypto call"  button to initiate an encrypted call.
5. Your smartphone will now set up a VoIP connection via the TopSec Mobile unit to the contact. The call will be established if the called party accepts it.
6. Your TopSec Mobile unit will ring if the called party accepts the call in crypto mode (i.e. the call is accepted via a TopSec Mobile unit). You must accept the call via your TopSec Mobile unit to be able to continue the call in crypto mode.
7. Your smartphone will ring if the called party accepts the call in plain mode (i.e. they accept the call via their smartphone). You can only accept the call in plain mode. The call is not encrypted.
8. The person you are in contact with, the call mode, the duration and the link quality will be displayed if the call establishment has been successful.




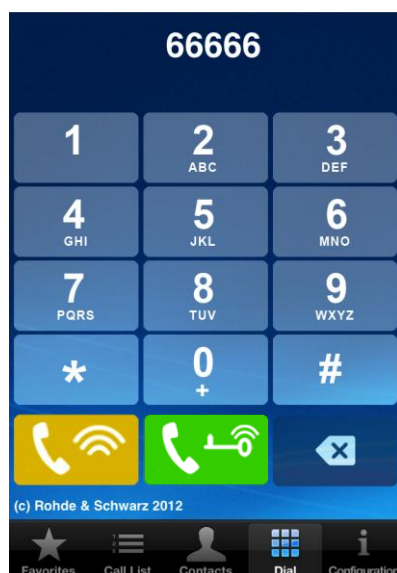
9. You can terminate a crypto call on your smartphone or on your TopSec Mobile unit. You must terminate a plain call with your smartphone.


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.

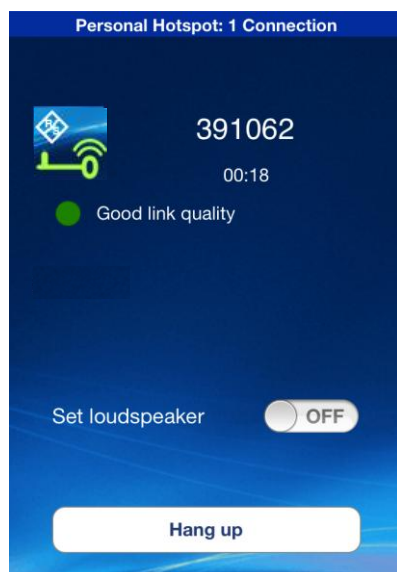
6.9.2 Setting Up a Call from the On-Screen Keypad

1. In the tab bar select the "Keypad" icon  .
The on-screen keypad will appear.



2. Use the keypad to enter the required number.
3. Select the "Crypto call"  button to initiate an encrypted call.
4. Your smartphone will now set up a VoIP connection via the TopSec Mobile unit to the contact. The call will be established if the called party accepts it.
5. Your TopSec Mobile unit will ring if the called party accepts the call in crypto mode (i.e. the call is accepted via a TopSec Mobile unit). You must accept the call via your TopSec Mobile unit to be able to continue the call in crypto mode.
6. Your smartphone will ring if the called party accepts the call in plain mode (i.e. they accept the call via their smartphone). You can only accept the call in plain mode. The call is not encrypted.

7. The person you are in contact with, the call mode, the duration and the link quality will be displayed if the call establishment has been successful.



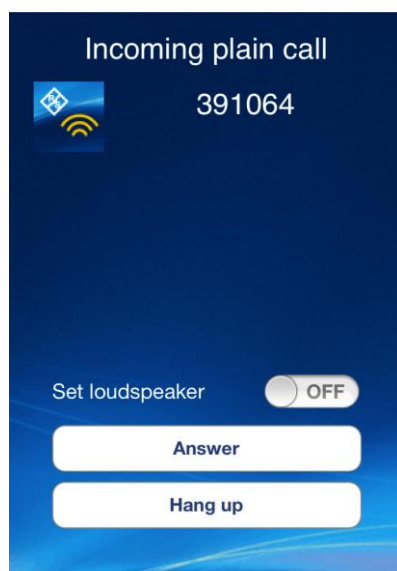
8. You can terminate a crypto call on your smartphone or on your TopSec Mobile unit. You must terminate a plain call with your smartphone.

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.

6.10 Step by Step: Accepting a Call

1. Depending on the call mode, either your smartphone (plain call) or your TopSec Mobile unit (encrypted call) will ring for an incoming call. Your smartphone will also show who is calling and the call mode. The call mode is shown by the icon next to the name (in the adjacent view unencrypted mode).



2. A crypto call must be accepted on the TopSec Mobile unit to be able to hold an encrypted conversation. If you accept a crypto call on your smartphone, an unencrypted connection will be set up.

NOTICE**Remember**

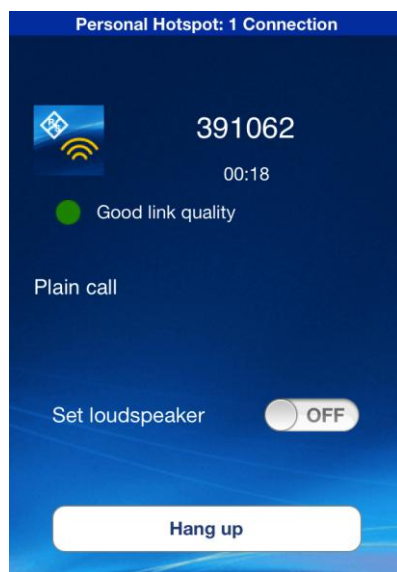
Only the smartphone can accept plain calls; the TopSec Mobile cannot accept plain calls. Encrypted calls are only possible over the TopSec Mobile.

NOTICE**Accepting a crypto call in plain mode (SIP)**

When using a SIP server a call that was initiated in crypto mode can only be accepted in plain mode if TCP is enabled.

3. Press the "Reject" button if you do not want to accept the call.

- The name of the caller, the call mode, the duration of the call and the link quality will be displayed once the call has been established.

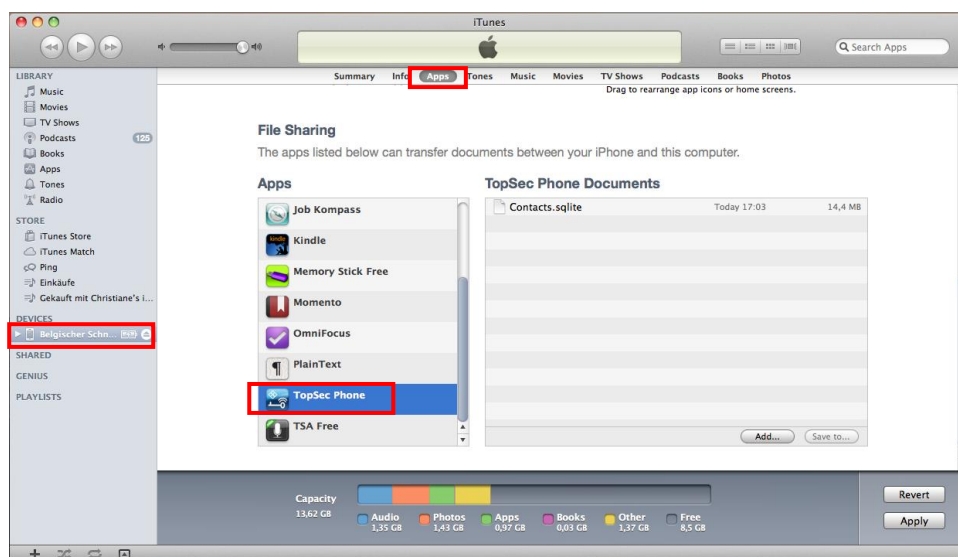


- You can end a crypto call either on your smartphone or on your TopSec Mobile unit. You can only end a plain call with your smartphone.

6.11 Backup

Proceed as follows to back up the database with all of the contacts and to copy it to another device:

- Connect your iPhone to your computer and call up iTunes.
- Select your iPhone in the side bar under "DEVICES" and then go to the "Apps" area.



3. Scroll down the page until you can see the "File sharing" area.
4. Select "TopSec Phone" in the list of apps. "Contacts.sqlite" will now be displayed on the right.
5. Click on this entry and then on "Save to ...". Then choose the directory where you would like to save your TopSec database.
6. To copy an existing and saved database onto a new device, install the app on the new device and go through steps 1 to 4.
7. Click the "Add..." button in the right hand area (under "TopSec Documents") and select the backup file. After selecting "Contacts.sqlite" confirm the process with "Open". The existing database will then be imported to your new device.

NOTICE**Apple Cloud**

Your TopSec contacts will also be saved in the Apple Cloud if you have connected your iPhone to the Apple Cloud.

Appendix

A Conditions of Use



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Issued June 8, 2010 (PF 0095.9046.00 V01.01)

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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 an element (by touching it) and moving it to release it at the required destination.

I

IAx: InterAsterisk Exchange.

IAx2: Version 2 of the InterAsterisk Exchange protocol.

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.

N

Navigation bar: This is the navigation part or strip at the top of your iPhone display.

P

PAN: Personal Area Network. This is a profile for the transport of network connections via a Bluetooth® link.

S

SIP: Session Initiation Protocol. A protocol to localize users and to set up & shut down connections.

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

T

Tab bar: This is the main navigation component in an iPhone at the bottom of the display via which the various functionalities of the app (favorites, call list, contacts,...) can be called up.

TCP: Transmission Control Protocol.

Tethering: Connecting a smartphone with a PC, PDA or other device, to enable an Internet connection via GSM/UMTS. The smartphone then takes the role of a modem.

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

U

UDP: User Datagram Protocol.

V

VoIP: Voice over IP.