

Handset Operations Manual

RTX 8440

Technical Reference Document

Version 5.1

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1 About This Document

This document describes the features and functionalities available in the RTX SME VoIP DECT 8440 Handset. We describe how to operate the handset without going into details of its mechanical features. The reference for features and operation in this manual is RTX generic mode.

1.1 Audience

This guide is intended for everyday users as well as system administrators.

1.2 Abbreviations

For the purpose of this document, the following abbreviations hold:

DECT:	Digital Enhanced Cordless Telecommunications
IPEI:	International Portable Equipment Identity
MAC:	Media Access Control
PBX:	Private Branch Exchange

1.3 References/Related Documentations

[1]:	How_To_Deploy_SME_Network_V1.3
[2]:	SME VoIP System Guide, Version 4.4

1.4 Document History

REVISION	AUTHOR	ISSUE DATE	COMMENTS
4.7	DKO	30/09/2019	Aligned with Firmware v470

1.5 What is new

What new features have been added.

REVISION	WHAT IS NEW
V460	RTX8200 Location gateway support
V470	Wired headset ICON added to status bar

2 Making Handset Ready

In this chapter we briefly describe how to prepare the handset for use, install, and how to insert and charge new batteries.

2.1 Package - Contents/Damage Inspection

2.1.1 Before Package Is Opened

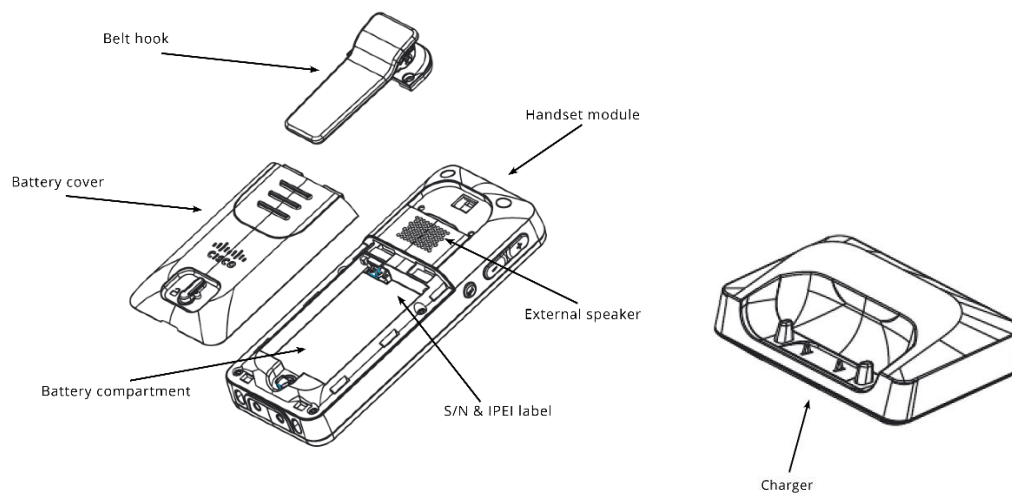
Examine the shipping package for evidence of physical damage or mishandling prior to opening. If there is proof of mishandling prior to opening, you must report it to the relevant support center of the regional representative or operator.

2.1.2 Contents of Package

Make sure all relevant components are available in the package before proceeding to the next step.

In principle, every shipped handset unit package/box contains the following items:

- 1 x Handset unit
- 1 x Battery cover
- 1 x Handset belt clip
- 1 x Charger
- 1 x A/C Adaptor
- 1 x Battery
- 1 x plastic cover to replace the belt clip





2.1.3 Damage Inspection

The following is the recommended procedure for you to use for damage inspection:

1. Examine all relevant components for damage.
2. Make a “defective on arrival - DOA” report or RMA to the operator. Do not move the shipping carton until the operator has examined it. The operator/regional representative will initiate the necessary procedure to process this RMA. They will guide the network administrator on how to return the damaged package if necessary.
3. If no damage is found, then unwrap all the components and dispose of empty package/carton(s) in accordance with country specific environmental regulations.

2.2 Before Using the Phone

The following are the precautions users should read before using the handset:

2.2.1 Installing the Battery

1. Never dispose battery in fires, otherwise it will explode.
2. Never replace the batteries in potentially explosive environments, e.g. close to inflammable liquids/gases.
3. ONLY use approved batteries and chargers from the vendor or operator.
4. Do not disassemble, customize, or short circuit the battery

2.2.2 Using the Charger

Each handset is charged using a handset charger. The charger is a compact desktop unit designed to charge and automatically maintain the correct battery charge levels and voltage. The handset charger is powered by AC supply from 110-240VAC that supplies 5.0VDC at 1000mA. When charging the battery for the first time, it is necessary to leave the handset in the charger for at least 10 hours before the battery is fully charged, and the handset is ready for use.

2.2.3 Handset in the Charger

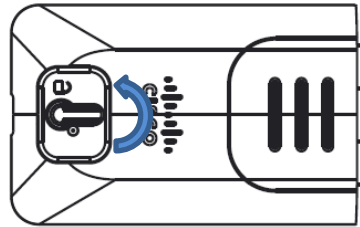
For correct charging, ensure that the room temperature is between 0°C and 25°C / 32°F and 77°F. Do not place the handset in direct sunlight. The battery has a built-in heat sensor which will stop charging if the battery temperature is too high.

If the handset is turned off when placed in charger, the handset turns on and shows (shortly) the charging message “The battery is charging”. After a while the display backlight first dim and then turns off (if demo mode is not enabled). There will be response for e.g. incoming calls.

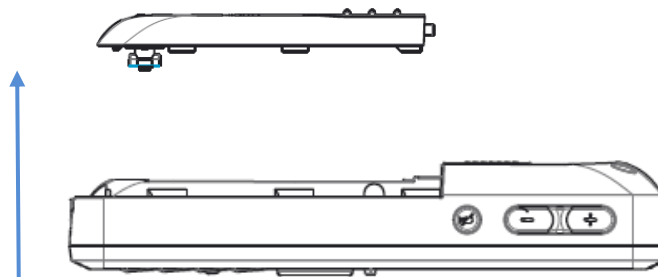
If the handset is turned on when placed in charger, the display shows (shortly) the charging message “The battery is charging”. After a while the display backlight first dim and then turns off if unless “Idle Screen Saver” is switched on.

2.2.4 How to Open Back Cover

1. Open the belt lock and slide down the back-cover as shown on the image below



2. Remove Back Cover from Handset



2.2.5 How to Replace Battery

Remove the back cover from the handset as showed in section 2.2.4 *How to Open Back Cover* above. Then remove the old battery and replace with a new one.

2.2.6 Handset Serial and IPEI/IPUI Number

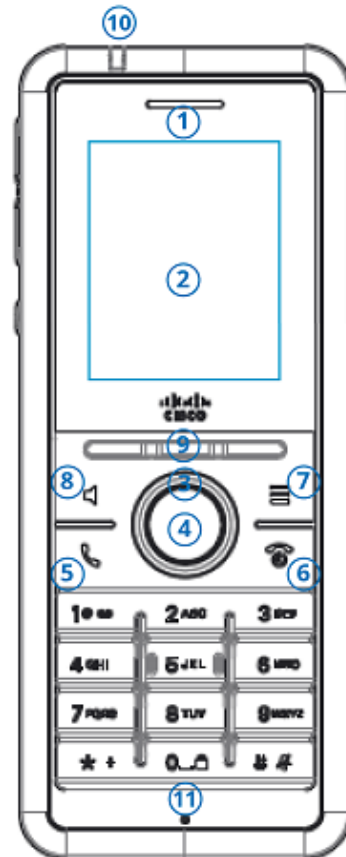
The serial number and IPEI/IPUI number of each handset is found either on a label, which is placed behind the battery, or on the packaging label. First, lift off handset back cover and lift the battery and read the serial number.

3 Phone Overview

This section contains an overview of the handset from the front and rear side.

3.1 Handset – Front View

1. **Earpiece Speaker**
2. **Screen**
3. **Navigation Keys (Up/Down/Right/left)**
4. **Selection Key (Centre of Navigation Keys)**
5. **Call Key/ Accept Call Key (Off-hook key)**
To answer a call; functions as a short cut to the Call list.
6. **End, ON/OFF Key, Back Key (On-hook key)**
To end call, to return to a previous menu and to switch the handset on/off by long press.
7. **Activity Menu Key**
To enter all the menus available on the handset.
8. **Speaker Key**
To enable/disable speaker mode during call.
9. **3 Softkeys**
Used for different commands in the different menus on the handset and change according to what is displayed on the screen.
10. **LED**
Indicates incoming call, missed call, messaging, low battery, and charging.
11. **Microphone**



3.2 Rear View - Handset

12. Headset connector (3.5mm)

This is for connecting a headset. The connector is protected against dust by the headset connector cover.

13. Volume Up Key (Side Key)

To increase the volume during call.

14. Volume Down Key (Side Key)

To decrease the volume during call.

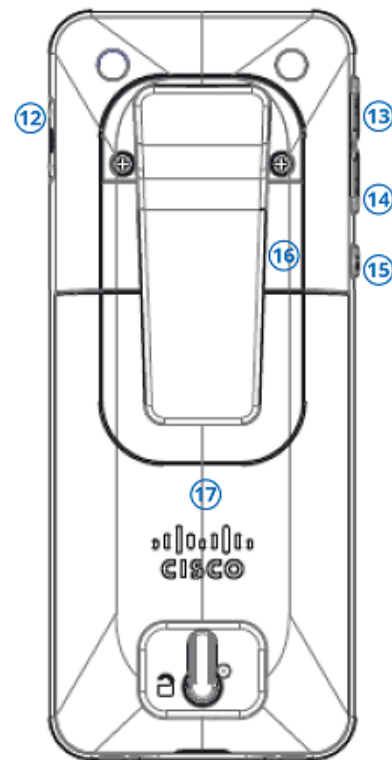
15. Mute Key (Side Key)

To turn off the microphone in call, so that the counterpart is muted.

16. External Speaker

Is used when speaker mode is enabled in call.

17. Back panel / Battery



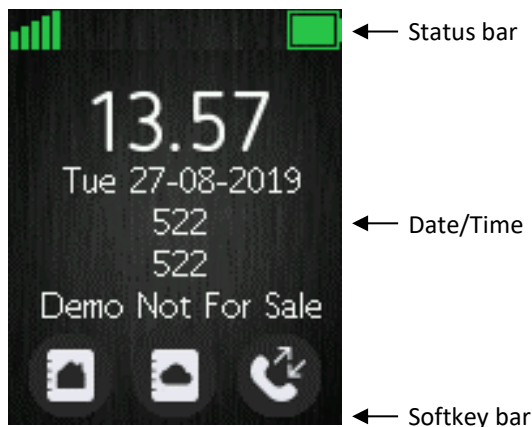
4 Display

This section contains a description of the different icons seen in the idle and in the menu.

4.1 Icons and Text on the Display

All functions and settings available to the handset user are shown as icons and text on the display. The icons and text on the display indicate functions and settings to which you have access.

The picture below shows a typical idle screen that displays the time and date, display name which is set on the web interface of the base station, registration number, and handset name which is set locally on the handset. This active area is also the area for dialog window text if there has been a missed call, or an action needs to be confirmed.



In the softkey bar at the bottom of the idle screen it is possible to access from the left: Contacts, Central Directory, and Calls.

The status bar at the top of the idle screen is always visible in all screens. This displays icons which give the user information about signal strength, missed call, new message, phone lock, key lock, sound off, time, and battery status. These icons are shown and explained shortly in the following:



“Signal strength” icon is always visible in the upper left corner. The number of green staples is displayed according to the strength of the signal. The icon is visible only when the handset is connected to a base station.



“Battery” icon is always visible in the upper right corner and shows how much battery is left on the handset.



“Missed call” icon is displayed in the status bar and indicates that there has been a missed call which can be seen in the call list.



“Voice mail message” icon is displayed in the status bar when there are voice mails that have not been listened to. This icon remains until the voice mail has been listened to.



“Message” icon is displayed in the status bar when there are messages on the handset that have not been read.



“Sound off”/“Silent” icon is displayed in the status bar when silent mode is enabled on the handset.



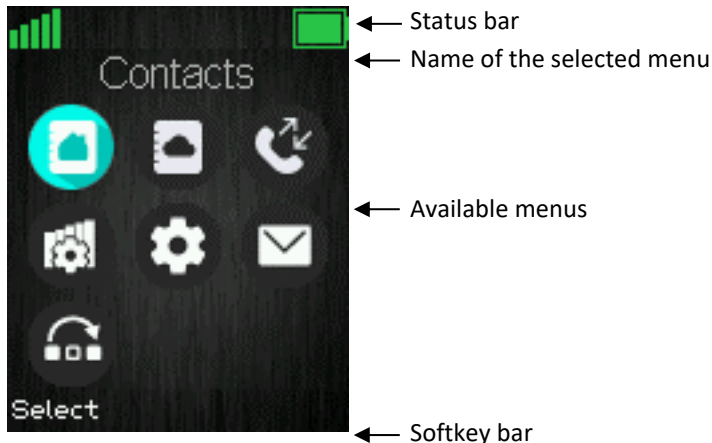
“Keylock” icon indicates when the keypad is locked, and the user needs to long press the *-key to be able to use the handset again.

 “Do not disturb” icon is displayed in the status bar when this feature is enabled; in this case the handset does not react on any incoming calls.

 “HD” icon is displayed during a call if the quality of the call is “High Definition” and hereby using the G.722 codec (also called a wideband call).

4.2 Menu icons

All the menus available on the handset are displayed when the menu key is pressed from idle. The available menus are seen on the screen below.



The status bar at the top of the display is always displayed independent of which menu is selected, and the softkey bar gives the possible options to select in every menu. In the active area of the screen the name of the menu selected is displayed at top, and all the available menus to select are displayed. During navigation across the different menus the highlighted icon is moving to indicate where the navigation key is. The menu icons are showed and shortly explained in the following:

 The “Contacts” menu contains all names/numbers in the local phonebook.

 The “Calls” menu contains call lists and call times.

 The “Connectivity” menu contains options to register/deregister the handset and network options.

 The “Settings” menu contains personal handset settings such as time/date, language, handset name, etc.

 The “Messaging” menu contains messages received on and sent from the handset along with the available messaging settings.

 The “F-Keys” menu contains personal handset settings for the F-Keys.

 The “Central directory” menu contains all names/numbers in the central directory of the system. The icon is shown as soon as the feature is set up in the web interface of the base system (see the additional base station manual document for further information on this via [2])

4.3 Keys and Buttons

4.3.1 Navigation Keys/Selection Key

Use this key when navigating in menus, and to move the cursor when writing some text or a number. The navigation keys  are used for stepping left/right and up/down when navigating in the menus. When selecting or entering a menu use the selection key in the middle of the navigation keys.

4.3.2 Softkeys

The handset has three softkeys  located just beneath the display, and the function of these is indicated by text on the display just above each softkey according to the respective screen.

4.3.4 Speaker Key

The speaker key  is used to shift between speaker mode and normal mode during call. When the handset is set to speaker mode during call the speaker key lights up in red, and the sound comes from the speaker on the back of the handset.

4.3.5 Activity Menu Key

When using this key  from idle the activity menu is opened from which all the different menus available on the handset can be opened.

4.3.6 Off-hook Key

This key  is used for answering an incoming call, or dialing a number either directly from the idle, or from the contact list, call list, or central directory. Pressing this key in idle opens the call list.

4.3.7 On-hook, and On/Off Key

The On-hook key  is used for disconnecting calls and returning to the previous menus when navigating in any menu. A long-press in idle will switch the handset off, and a long-press when the handset is switched off will switch the handset on.

4.3.8 Speed Dial Keys

Any key from “2” – “9” can be set as a speed dial key. A long press on any of these numbers when the handset is in idle can be set to a short cut to calling any contact in the contact list, or in the F-Key list. For additional information on this feature see *7.1.4 Speed Dial/On Touch Dial*.

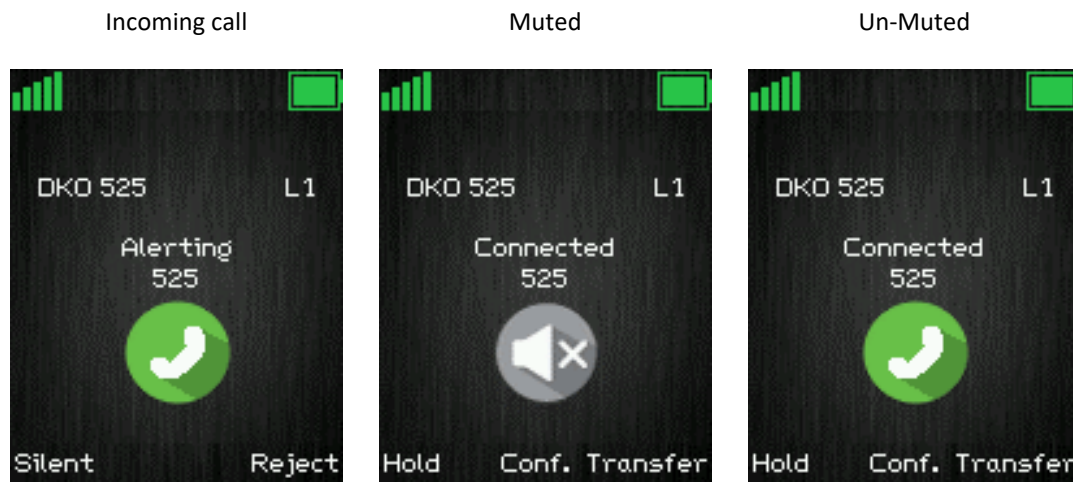
4.3.9 Volume Button

These two volume buttons placed on the upper left side of the handset are used for increasing/decreasing the volume during a call.

NOTE: These buttons are used to control the volume when using the earpiece, a headset, and the loudspeaker, and the lowest volume will not mute the handset.

4.3.10 Mute Button

The mute button is placed under the volume buttons on the left side of the handset. This button is used during call to mute the call so that the microphone in the handset is turned off, and the counterpart cannot hear you, but you are still able to hear the counterpart of the call.

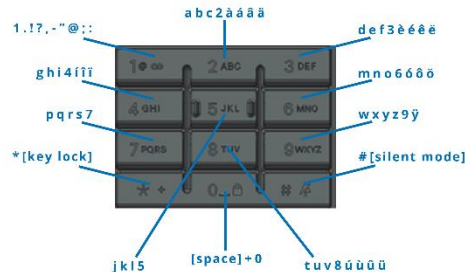


When the mute function is enabled during a call it is indicated on the “Connected” screen with the image shown above. Mute is turned off by pressing the mute button again.

Furthermore, a press on the mute button when the handset is in idle will activate the “Push To Talk” function; for further information on this feature see section 6.5.15 *Push To Talk*.

4.4 The Keypad

The keypad is used when entering a name or number, and the sketch below shows the available characters on the handset.



NOTE: Depended on the selected menu language, other characters can be available. Therefore, the character order can differ from the table above.

4.4.1 Idle Mode, and Number Input Mode

When in idle a short press on a key enters the digits “0” – “9” and the characters * and #.

In number input mode, a long press on “0” generates a +.

4.4.2 In Text Input Mode

While in text input mode a short press on a key 0-9 displays the first available character on that specific key. The marked character is then selected after a timeout, or when another key is pressed.

By pressing the *-key it is possible to change the text to be upper/lower case or only numeric (Abc, abc, ABC, or 123).

Use the 0 to add a space in the text.

4.4.3 Silent Mode from #-Key

By long-pressing the #-key when the handset is in idle, the handset will turn to silent mode, and a “Sound Off” icon  will be shown in the status bar. This feature enables the user to rapidly turn on silent mode. To turn off silent mode again long press the #-key.

5 Basic Operation

The following explains three basic operations of the handset: how to switch the handset on/off, how to lock/unlock the keypad, and the available options when entering a number in idle.

5.1 How to Switch the Handset On/Off

Switching on the handset

To switch the handset on, long press the on-hook key . When the handset is on, it will display “Searching” for a short while until a signal is detected, and then the handset is showing the registration number and is ready for use.

Switching off the handset

To switch the handset off return to the idle screen and long press the on-hook button , and the handset will turn off.

5.2 Lock/Unlock the Keypad

To prevent accidentally pressing keys and making a call, the keypad can be locked.

Locking the keypad

To lock the keypad long press the  in idle, and a text message is displayed “Press and hold *”. When the keypad is locked, the “Key Lock” icon  is displayed in the status bar.

Unlocking the keypad

To unlock the keypad long press  until the text message “Press and hold *” disappears.

NOTE: It is possible to answer/reject an incoming call while the keypad is locked.

5.3 Entering a number in idle

When entering a number in idle it is possible to call the number by pressing the off-hook key .

Otherwise, the following three different options are available when a number is entered in idle.

Save

With this option the number can be added as a local contact by pressing the left softkey “Save”.

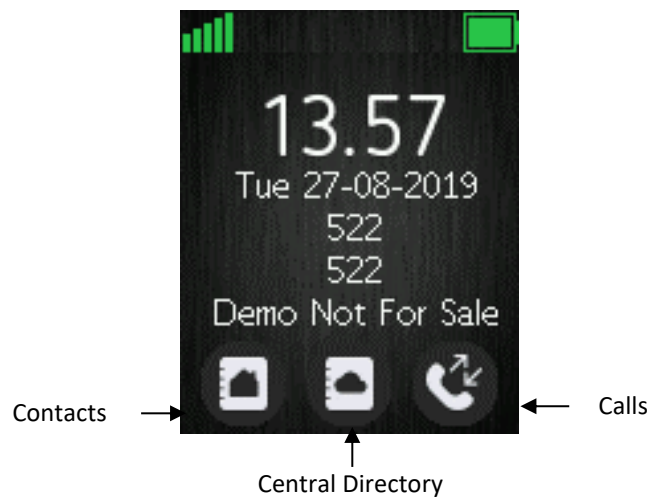
Clear

Using the right softkey “Clear” deletes one character at a time to the left of the cursor.

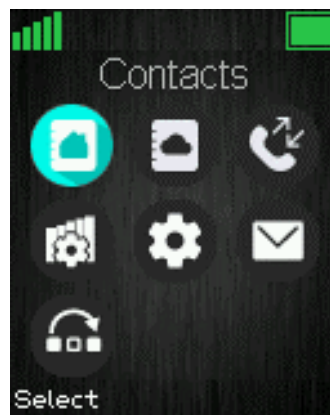
6 Menu Operation

In the following a description of the different menus and submenus of the handset will be given. Before the functions of every menu are explained, a menu tree will be showed at top to give an overview of how to enter the different menus.

From idle it is possible to enter some of the menus directly via the three softkeys as displayed on the image below. By pressing the left softkey the menu 'Contacts' is entered, via the middle softkey 'Central Directory' is entered and using the right softkey enters 'Calls' to see the different calls lists.

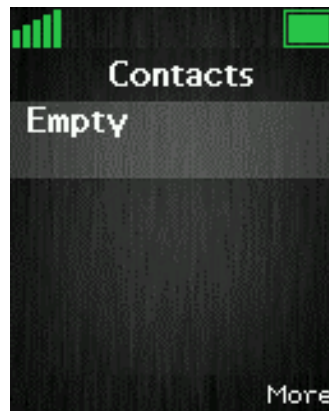


To enter the menu from idle press the menu activity key  on the keypad, and all the different menus can be entered:



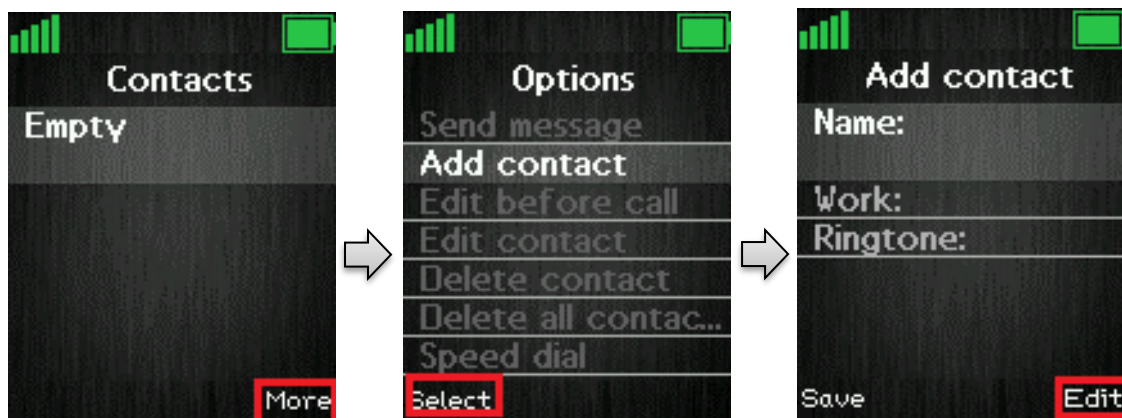
6.1 Contacts

In this menu all the local contacts on the handset are displayed. An empty local phonebook is displayed on the picture below.



6.1.1 Add Contact

To add a new contact, press the right softkey “More”, select “Add contact”, and the information displayed in the menu tree below can be filled out for the contact by pressing Edit at the bottom right corner.

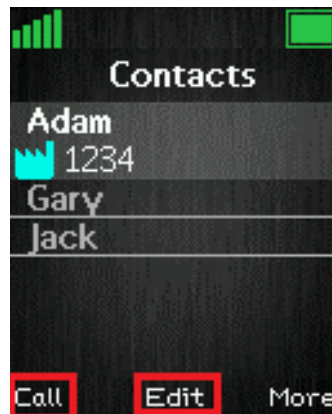


Hereby, it is possible to edit the name, add different phone numbers (work, mobile, home, and other), and add a specific ringtone to be used for exactly this contact.

To save a new contact, press the left softkey “Save”.

6.1.2 Call/Edit a Contact

When the “Contacts” menu contains contacts, it is possible to “Call” or “Edit” each contact with the left and middle softkey, respectively.

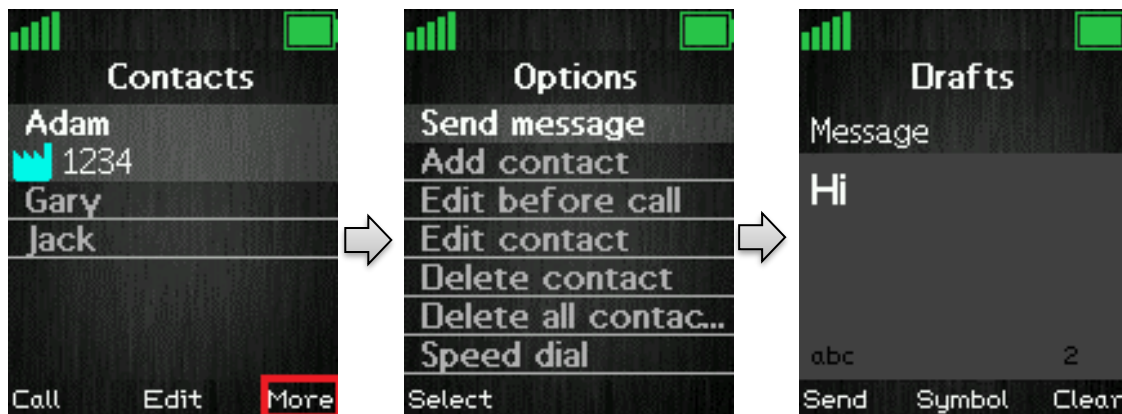


Pressing “Call” initiates a call to this contact.

When pressing “Edit” it is possible to edit the name, work and ringtone for the highlighted contact.

6.1.3 Send Message to Contact

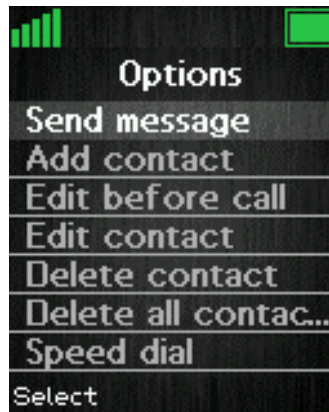
From Contacts it is possible to send a message directly to a contact in the list. How to do this is displayed in the images below:



In this way, it is possible to send a text message directly to a specific contact. For more information on the text messaging feature see section 6.6 *Messaging*.

6.1.3 More Contacts Options

When a specific contact is highlighted, pressing “More” in the “Contacts” menu enables the features seen below.



Edit before call

This function makes it possible to edit the number of the contact before calling the contact.

Edit contact

This has the same function as pressing “Edit” directly from the “Contacts” menu, and makes it possible to edit the name, work and ringtone for the contact.

Delete contact

By selecting this feature, the following text message is displayed: “Delete current contact from local contact list?”

To delete the selected contact, press the left softkey “Yes”.

To go back to the “More” menu, press the right softkey “No”.

Delete all contacts

With this function all the contacts in the local contact list can be deleted, and by selecting this option the following text message is displayed: “Delete entire local contact list?”

To delete all contacts in the local contact list, press the left softkey “Yes”.

To go back to the “More” menu, press the right softkey “No”.

6.1.4 Speed dial/One Touch Dial

With this feature it is possible to add a contact to the speed dial. Hereby, this contact can be called directly from idle by long pressing the speed dial number that the contact is added to. The speed dial feature allows the user to assign a speed dial number (2 – 9) to a contact. This enables the user to call a contact by making a single long press on one of the number keys (2 – 9) when in idle.

A contact can only be assigned to one speed dial number at a time. The defined number of the contact will be dialed when the speed dial key is pressed.

NOTE: The ‘1’ key is reserved for voicemail. Long key press on ‘0’ is used for starting a normal dial string with ‘+’.

6.1.4.1 How to setup speed dial

Prerequisite: There must be at least one contact in the contact list.

Steps:

1. Go to the contact list > Move to the contact that you want to assign a speed dial number to.
2. Select "More" > Select "Speed dial"
3. Move to the speed dial number (2 – 9) that you want to assign the contact number to.
4. Select "Add". The contact name should be appended to the speed dial number.
5. Leave the speed dial list by pressing the red "On-hook" key > Press "On-hook" key to exit "More" menu, and exit contacts list by pressing "On-hook" key again.

In the picture below it is showed how the local contact 'Henrik Daugaard' is added as a speed dial number to 2.



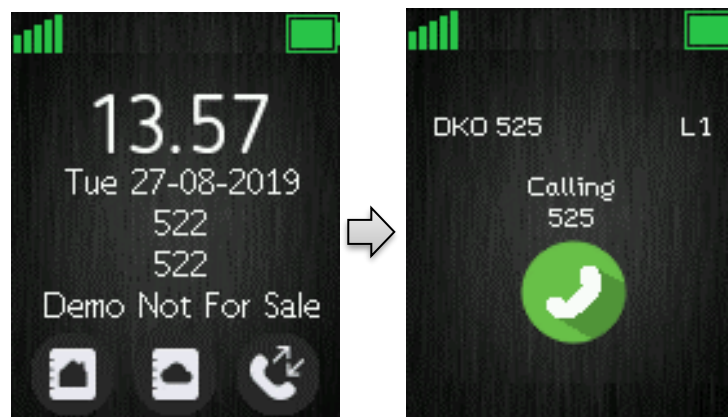
6.1.4.2 How to call a speed dial number

Prerequisite: The handset is in idle and the key lock is not active.

Steps:

1. Make a long key press (> 2 seconds) on a speed dial key that is assigned to a contact. The first number defined is dialed.

Hereby, the local contact "Adam" can be called directly from idle by long-pressing  as displayed below:

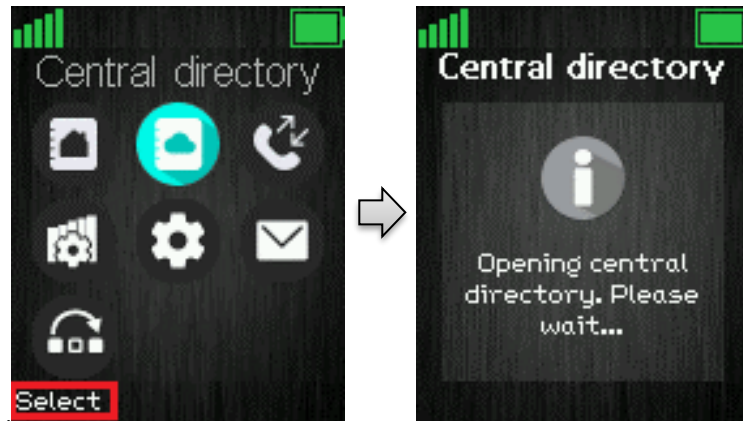


NOTE: The speed dial function can also be set up for the F-Keys (for additional information on this see section 7.8 F-Keys)

6.2 Central Directory

In the “Central directory” menu different contacts can be called according to which list the system administrator has setup in the base system. The icon of the Central Directory is visible as soon as the feature is enabled and configured on the base station. For more details about setting up the Central directory, please see *RTX8663 SME VoIP System Guide*.

After activation, the menu can be entered directly from idle with the middle softkey , or from the menu by pressing the menu activity key  and choosing “Central directory”.



6.2.1 LDAP Mode and Local Mode

The “Central directory” can be set to LDAP Mode or Local Mode via the web interface of the base station (see [2] for additional information on this).

When set to LDAP mode, opening the central directory will show a search screen as displayed in the following. By leaving the search field empty and pressing the middle softkey “Search” all the contacts in the central directory will be displayed.



NOTE: When the central directory is in LDAP mode pressing right softkey “Back” the handset will return to the “Search” field, and a new search for a contact can be made. Pressing the red “On-hook” button, in the central directory, will send the user back to idle.

If the central directory instead of LDAP Mode is set to Local mode, opening the central directory will get you directly to browsing mode, and to enter the search mode press the middle softkey as displayed below.



The search function is similar in these two modes. When typing something in the search field and pressing “Search”, the results of the search will be displayed. This is showed in the following images.



To scroll through the search results, use the navigation keys up and down and you will scroll through the list. If a blue arrow is seen to the right of a contact (as seen above), this contact has more than one number added, and to scroll through these different numbers use the left/right navigation keys.

6.2.2 Calling a Contact in the Central Directory

To call a contact from the central directory you can either press the green “Off-hook” button or the left softkey “Call”. The contact number that currently appears on the screen will be called. Use right/left navigation key to scroll through the names.

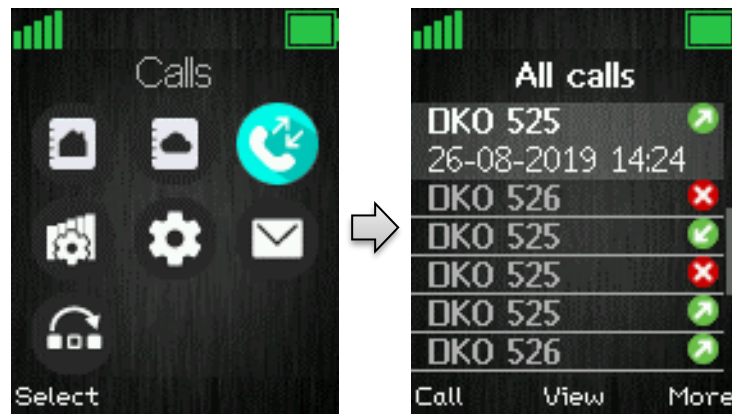


If a contact has more numbers added an arrow is shown to the right of the contact, and by pressing the right/left navigation keys it is possible to navigate between the different numbers assigned to that contact. The number that currently appears on the screen is the one that is called.

6.3 Calls

The menu “Calls” consists of lists of all the calls that have been made to or from the handset.

This menu can be entered directly from idle with the right softkey , by pressing the green off-hook button  or from the menu by pressing the menu activity key  and choosing “Calls”.



When opening the “Calls” menu, the list “All calls” is automatically opened.

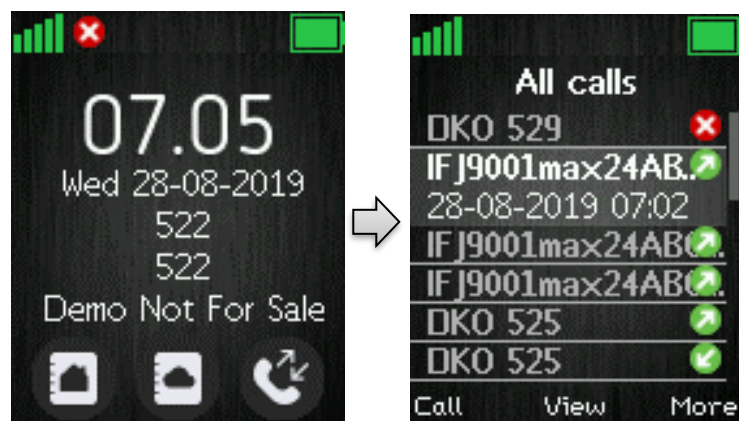
Using the up/down navigation keys  it is possible to view the four different statuses.

Answered calls: The incoming calls that have been answered are listed with a green arrow pointing downwards.

Dialed calls: All the calls that have been dialed from the handset are listed with a green up arrow on the left.

Missed calls: This lists all the incoming calls to the handset that have not been answered by displaying a red icon with a white cross.

When there is a missed call on the handset a red icon  is displayed in the status bar until the entry has been displayed in the missed call list. As shown in the images below, the user must scroll over once in order to hide the icon from the status bar. This indicates as well that the user has seen the missed call.



6.3.1 Call

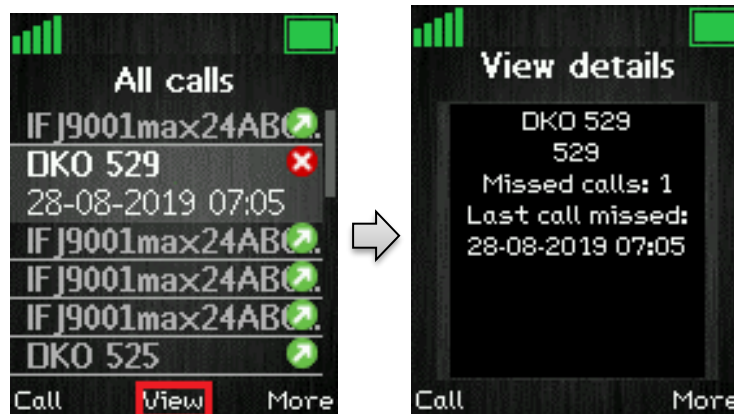
To initiate a call directly from the local call list, use the up and down navigation keys to highlight an entry, and press the left softkey “Call”. This will initiate a call to the highlighted entry as displayed in the images below.



A call can also be made to the highlighted entry by pressing the green off-hook key

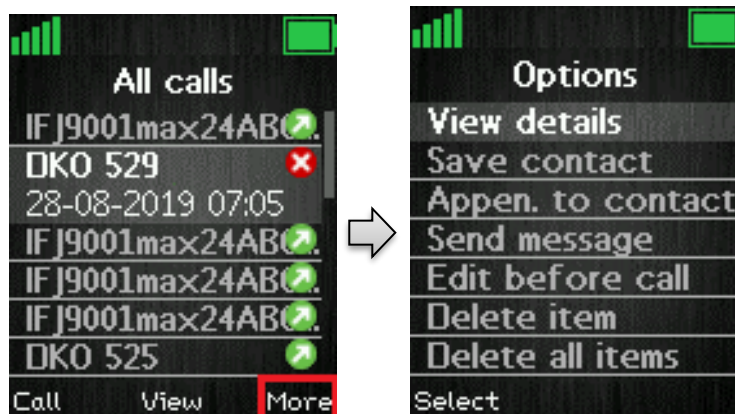
6.3.2 View

The middle softkey enters a “View” function for each entry. With this feature the following details of the call can be seen: number, line number, status (answered, dialled, missed), duration, and time stamp as displayed in the image below.



6.3.3 More Calls Options

When a specific call is highlighted, pressing “More” in the “Calls” menu enables the features seen below.



**View details**

This shows the same details about the call as the “View” function explained in 7.3.1 *Call/View*.

Save as contact

With this feature it is possible to save the number in the call list as a contact.

Append to contact

This function makes it possible to add the number in the call list to an existing contact.

Send message

With this feature a text message can be sent to the selected number in the call list.

Edit before call

With this function the number in the call list can be edited before calling.

Delete item

By selecting “Delete item” the following text message is displayed: “Delete current item from list?”

To delete the item from the call list, press the left softkey “Yes”.

To return to the call list, press the right softkey “No”.

Delete all items

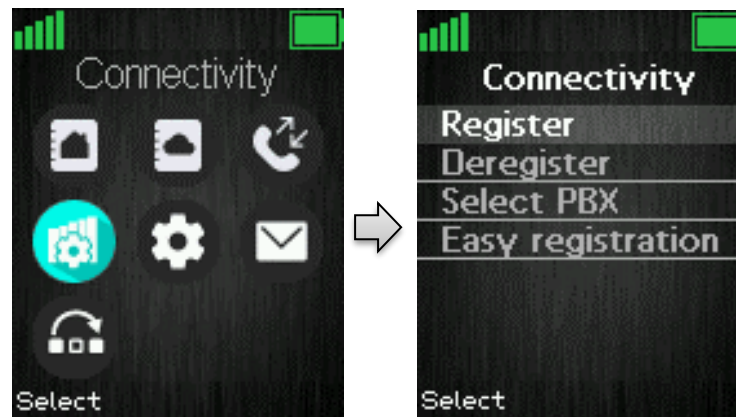
This feature makes it possible to delete all items in the specific call list. By selecting “Delete all items” the following text message is displayed: “Delete all items in this list?”

To delete all items in the specific list, press the left softkey “Yes”.

To return to the call list, press the right softkey “No”.

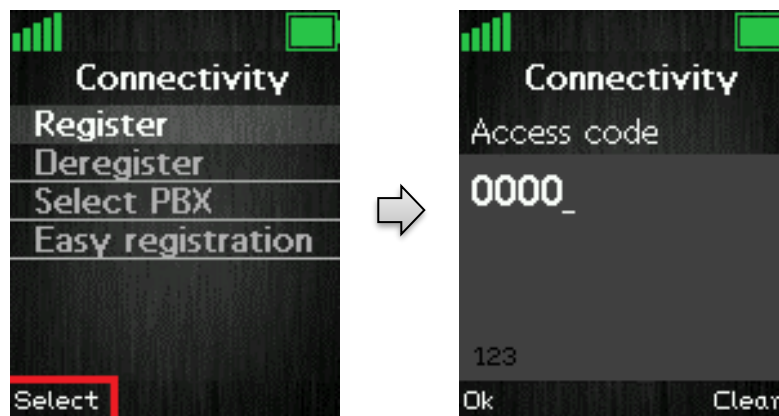
6.4 Connectivity

The “Connectivity” menu is entered in the menu by pressing the menu activity key  in idle.



6.4.1 Register

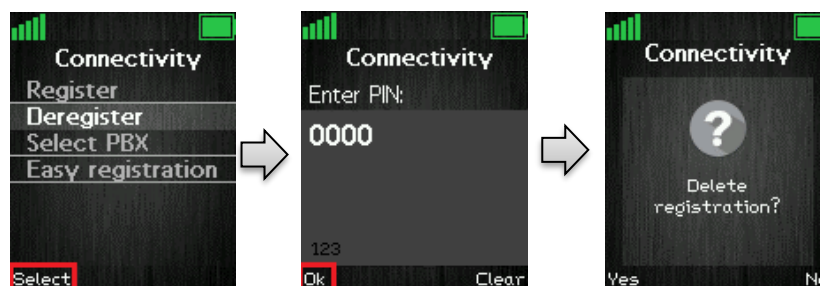
When a handset is to be registered on a base system, the user will be prompted for an access code (base registration PIN) before the registration procedure is started.



The access PIN code is default “0000” and cannot be changed via the handset. The access PIN code can only be changed via the web interface on the base (please check the additional document via [2] for more information about handset registration on a base system).

6.4.2 Deregister

The handset can be deregistered from a registration. The user will in this case be prompted for a PIN code (base deregistration PIN), the PIN code is default “0000” and cannot be changed via the handset. This is displayed below.



When the registration that should be deregistered is selected, a warning message “Delete registration?” will be displayed as seen above. The user then must accept by pressing the left softkey “Yes”, or the right softkey “No” to cancel the operation.

6.4.4 Select PBX

In the “Select PBX” menu it is possible to select another PBX for the handset to use.



With this feature it is possible to connect the handset to another PBX than the one used by the base station system. In this way, the handset can for example function on a PBX without being connected to a system of base stations.

6.4.5 Easy registration

“Easy registration” is a new feature which enables the user to add new handsets without having to open the base webpage. This means, that the user can physically enable the registration mode by booting/pressing the reset button on the base station, or by using the “Easy registration” menu on the handset.

6.4.5.1 Register handsets

Once the base station is unpacked and powered on, it enters a registration mode for 120 seconds. In order to establish a connection, the base station must be already provisioned with extension/SIP registration data for the upcoming handsets. While the base is open for registration, the LED will blink, and the user should power on a handset which has no current registration. A “registering” screen should be displayed after booting of the handset is completed. Afterwards, it will automatically be registered to the base station. If the registration process of 120 seconds has timed out, the user can easily restart the process by rebooting the base or by unplugging/plugging the power connection. As soon as the first handset has been registered, the user may continue adding handsets following the normal procedure mentioned below.

After having registered handset number one to the base station, the system now is up and running. In order to connect a second handset, the user should go to the “Connectivity” menu and select the “Easy registration” feature. The system will enter the registration mode and the user can then power on the new handset number two. After a moment, the new handset will be registered to the base station. The end user will see a confirmation screen on both handsets number one and two, where the user can compare if the IPEI matches. After pressing “Okay”, the system opens again the registration window for 120 seconds where the user can add another handset.

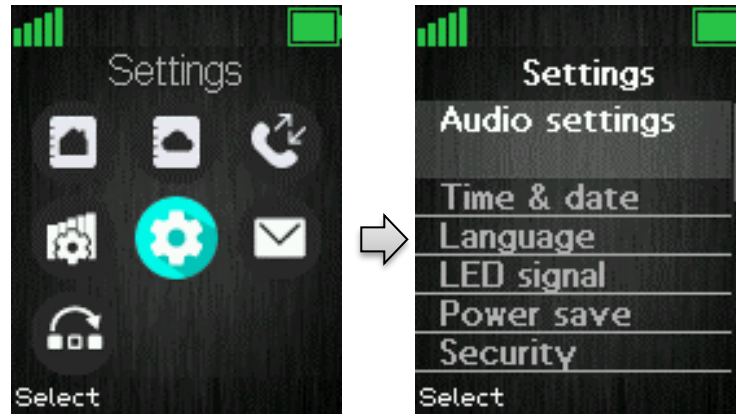


6.4.5.2 Register repeaters

The feature also allows the registration of repeaters to the system. To register a repeater, enter the “Easy registration” menu from the handset and allow new devices to the system. Power on the repeater. As soon as the device screen has shown success, the user may compare the IPEI from the screen of the handset with the IPEI on the repeater’s label. By doing so, the user will make sure that the correct device has been added.

6.5 Settings

The “Settings” menu is entered through the menu by pressing the activity menu key  in idle.



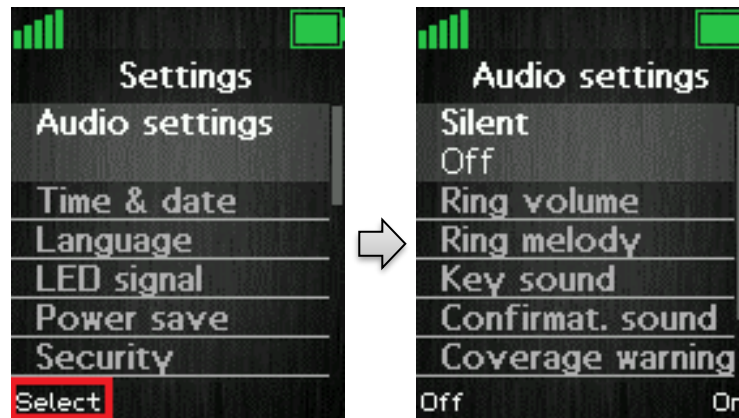
The “Settings” menu contains the following personal handset settings:

SETTINGS	
	Audio settings
	Time & Date
	Language
	LED Signal
	Power save
	Security
	Handset name
	Line
	Reset settings
	Status
	Auto answer
	Silent charging
	Do not disturb
	Hide number
	Call Forward
	Idle Screen Saver
	Idle Clock
	Function Keys

Each of these settings will be described in the following chapters

6.5.1 Audio Settings

The “Audio settings” menu contains different settings for the sounds on the handset.



6.5.1.1 Silent

The “Silent” profile can be either enabled with the right softkey “On” or disabled with the left softkey “Off”. When the “Silent” profile is enabled no sounds are played on the handset, and the handset does not ring on incoming calls or messages.

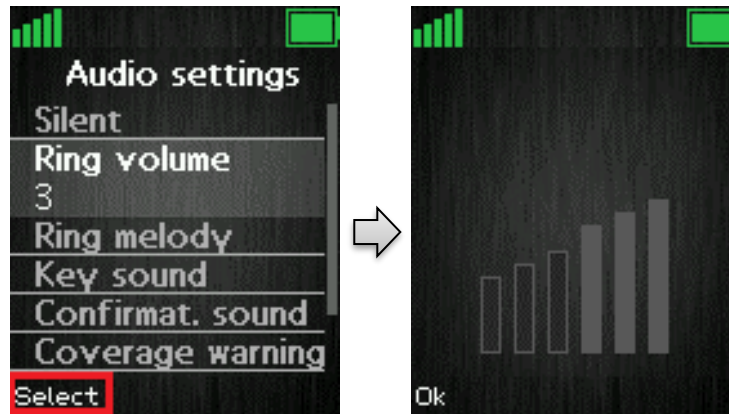


6.5.1.2 Ring Volume and Ring Melody

When the handset receives an incoming call, message, or alarm, different ring volumes and melodies can be selected.

Ring volume

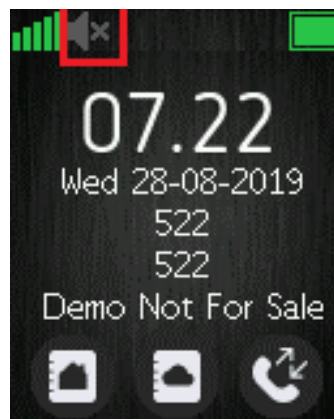
The ring volume for calls can be adjusted from mute to volume 6. The currently applied level is displayed when entering the menu “Ring volume”.



To select the desired ring volume the navigation keys up/down or right/left are used to respectively increase or decrease the volume. Thereby, pressing “Ok” saves the current ring volume. The currently applied ring melody is played when adjusting the ring volume so that the respective ring volume can be heard before selected.

Ringer mute

The ringer is switched off when the lowest level is selected in “Ring volume”. When the ring volume is set to mute, the “Sound off” icon is displayed in the status bar, and no sound is heard when receiving an incoming call or message. See image below



Ring melody

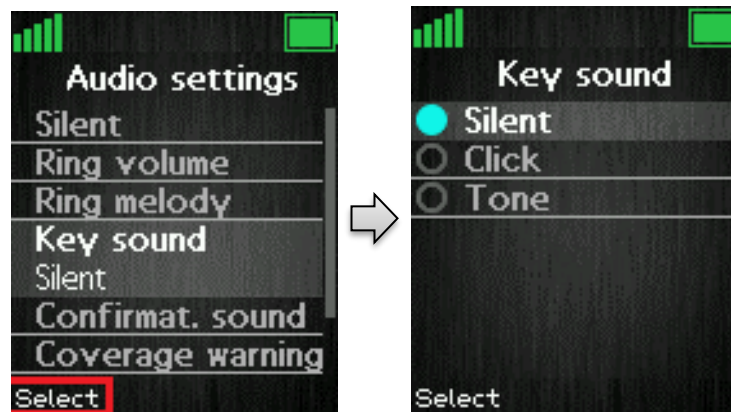
Many different ring melodies can be chosen for the handset to play when receiving an incoming call. A list of melodies is displayed when entering the menu. Each displayed melody on the list can be selected by pressing the left softkey "Select".



To hear the melody before selecting it, each melody in the list can be played by selecting the right softkey "Play". The softkey "Play" changes to "Stop" during playback and the playback can then be stopped by pressing this button.

6.5.1.7 Key Sound

The "Key Sound" settings controls if a key sound is heard as the keys are pressed on the handset, or if no sound is made. The following three different options can be selected for the key sounds:



Silent

If this feature is chosen, there will not be heard any sounds when pressing the keys on handset.

Click

With this function enabled a click sound is heard when a key is pressed.

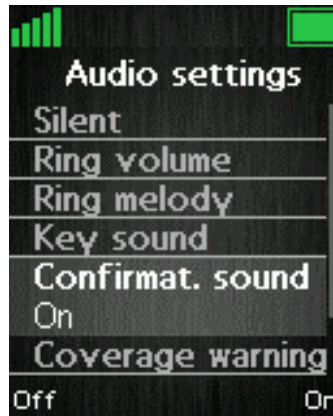
Tone

When this option is enabled a tone will be heard when a key is pressed.

NOTE: No key sound will be generated when pressing the keys during "key lock state" even though one of the options "Click" or "Tone" is enabled.

6.5.1.8 Confirmation Sound

This feature either enables or disables confirmation sounds on the handset.



When the function “Confirmation sound” is enabled (On), an audible indication is given when an event succeeds or fails. For example, a positive confirmation sound is generated when a new setting is set or an entry is saved successfully in the phonebook. A negative confirmation sound is generated if the action fails.

When the confirmation sound is set to “Off” no sounds are generated in either case.

6.5.1.9 Coverage Warning

A coverage warning can be set to occur when the handset is out of range of a base station in the system.



When the feature “Coverage warning” is enabled (On) an audible indication is given in the earpiece of the handset when the user is close to the maximum range of the nearest base station in the system. Hereby, the user knows that the call is at the edge of the possible coverage of the call, and that the user must move back in coverage to keep the call going.

NOTE: This feature is only working when the handset is in call. Not when in idle.

6.5.1.10 Charger Warning

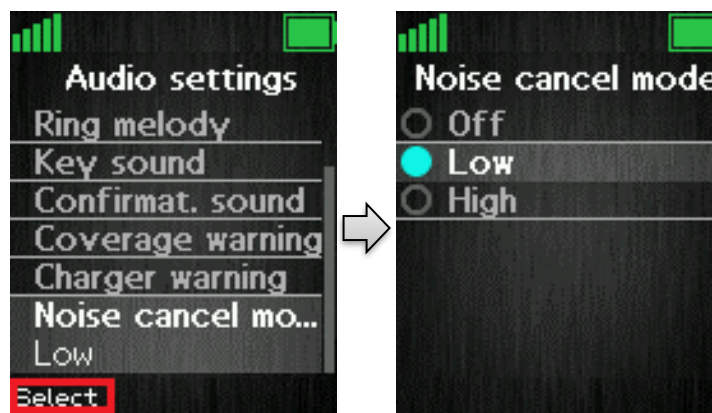
“Charger Warning” is a feature that enables the handset to make a sound when put in the charger to indicate that the handset is charging.



When the feature “Charger warning” is enabled (On), then an audible indication will be given when the handset is correctly connected to the charger. If the feature is set to “Off” no audible indication will be given when the handset is put in the charger.

6.5.1.11 Noise reduction

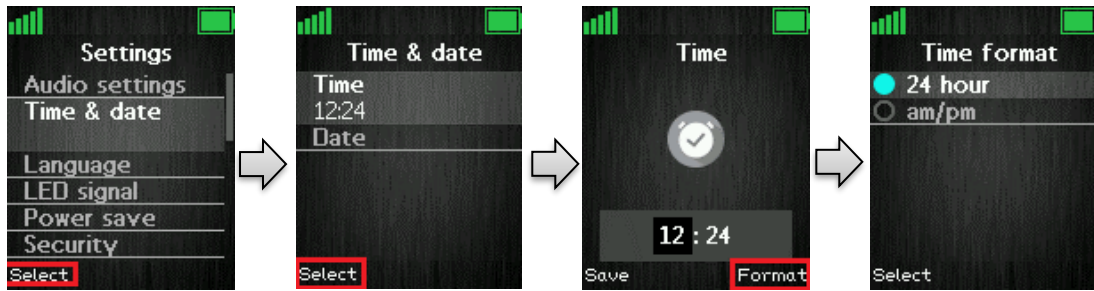
In this menu, the feature “Noise reduction” can either be disabled by pressing the left softkey “Off” or configured to be enabled on a certain level such as “High” or “Low”.



Noise reduction is a function used when the handset is in call. During a call, if noise reduction is enabled on the handset, the background noise around the user is reduced. In this way, the user should sound clearer to the counterpart since the background noise is reduced to a minimum.

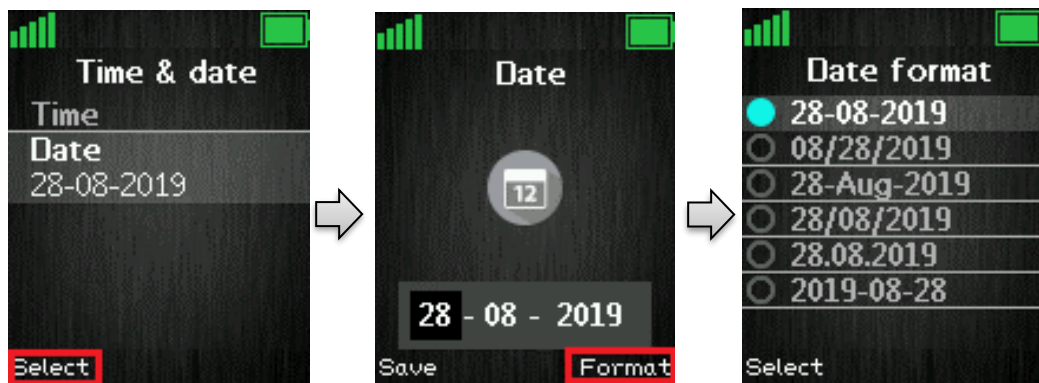
6.5.2 Time & Date

To set the time and date in the handset select the “Time & date” menu. Below it is shown how the time and time format can be changed.



To change the time, use the keypad, or the navigation keys to set the time to be what you want, and press save; as seen in the third image. The time format can also be changed by pressing the right softkey "Format". In "Time format" the preferred time format (24 or 12 hours) can be selected.

In the same way the date can be changed as seen in the images below:



In "Date format" the preferred date format (i.e. dd-mm-yyyy) can be selected by using the up/down navigation keys.

6.5.3 Language

In this menu it is possible to select different languages for the handset. The menu tree below shows the different languages available on the handset.

SETTINGS

LANGUAGE

English
Espanol
Deutsch
Francais
Italiano
Nederlands
Portugues
Dansk
Svenska
Turkce
Polski
Norsk
Russian-1
Russian-2
Hrvatski
Srpski
Slovenian

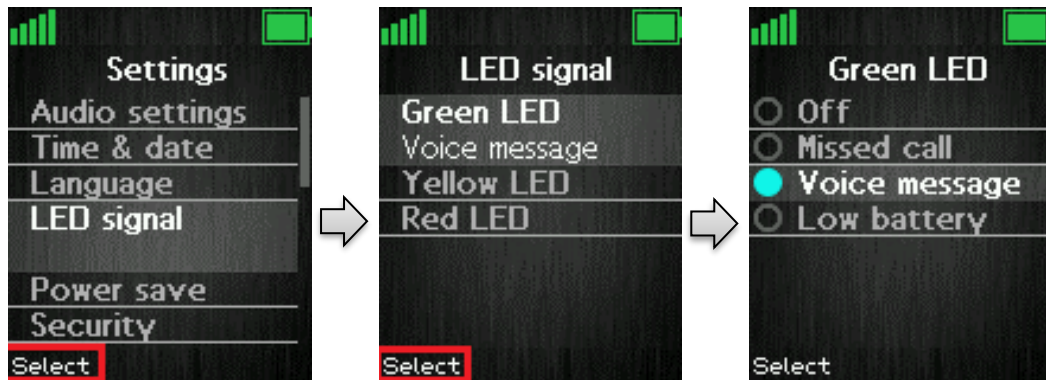
The currently applied language is displayed when highlighting the menu “Language”.



When entering this menu, a specific language can be selected by scrolling through the menu using the up/down navigation keys and pressing the left softkey “Select” when the desired language is highlighted.

6.5.4 LED Signal

The LED at the upper left corner of the handset has three different colors: green, yellow, and red. The different colors can be assigned to distinctive situations by the user.



As seen in the images above each color of the LED signal (green, yellow, and red) can respectively be configured to indicate:

Missed call

The LED signal blinks in the chosen color when there is a missed call.

Voice message

The LED signal blinks in the chosen color when there is a voice mail message that has not been listened to.

Low battery

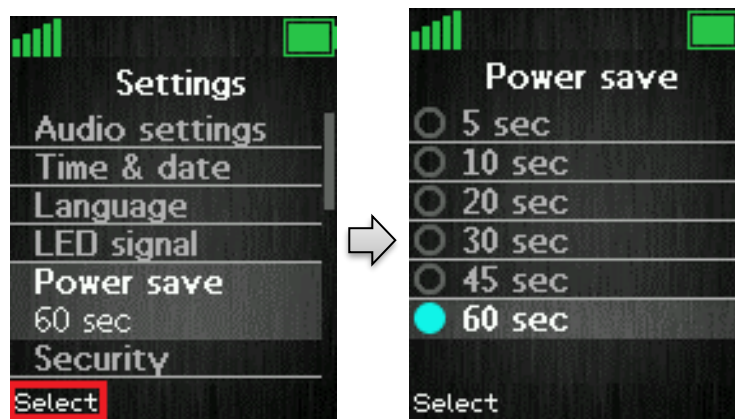
The LED signals blinks in the chosen color when the battery is low (below 20% battery on the handset).

Off

The LED signal is disabled and does not blink in any situation.

6.5.5 Power Save

The power save option makes the handset less battery consuming by turning off the display after a certain amount of time.



In the images above, it is displayed how the power save can be set between 5 seconds and 60 seconds. A certain time interval is chosen by pressing the left softkey "Select" when the desired time interval is highlighted.

6.5.6 Security

In the “Security” menu it is possible to set an automatic keylock and change the PIN of the handset.

Phone lock

This feature locks the phone, when it is in standby mode.

The code needs to be entered before the phone can be accessed.

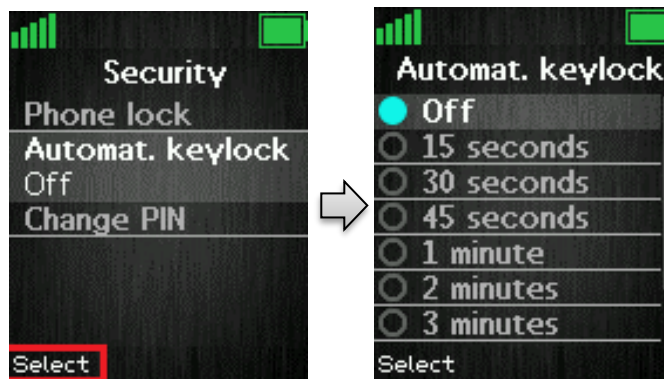


After activating the Phone Lock the handset needs to be rebooted, for this to take effect.

To unlock the phone press and hold the  key and enter the access code.

Automatic keylock

If the “Automatic keylock” feature is enabled, the keypad will lock automatically after a certain amount of time that the handset has not been used. The currently applied setting is displayed when highlighting or selecting the menu “Automatic keylock”.



A list of selectable timeouts is displayed when the user enters the “Automatic keylock” menu. Any one of these can be selected by pressing the left softkey “Select” when the desired time interval is highlighted. Afterwards, when the handset has been inactive in the selected time interval the keypad will lock automatically.

NOTE: It is not possible to use the keys when these are locked. The user must unlock the keys by long-pressing . Only emergency numbers (e.g. 911 or 112) can be called without having to unlock the keypad.

Change PIN

In “Change PIN” the handset security PIN code can be changed – the PIN code is i.e. used when settings are reset.



As seen above the current PIN code must be entered first to change it to a new PIN code.

6.5.7 Handset Name

In the following settings, it is possible to change the handset name, select a line, reset settings, and see the status data from the base station.

SETTINGS	
	Handset name
	Line
	Reset settings
	Status

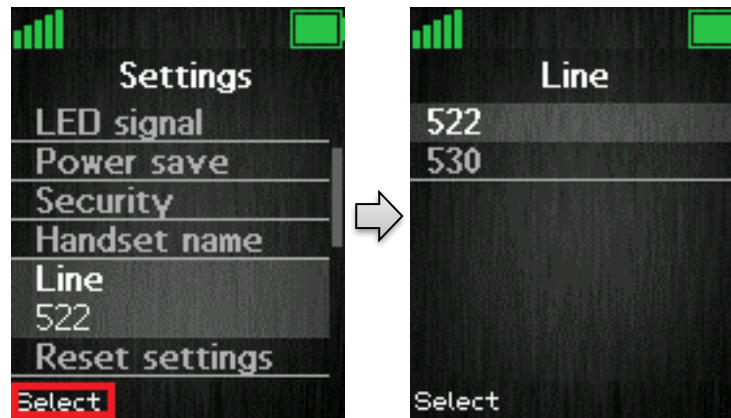
By selecting “Handset name” the name of the handset can be changed.



As seen above, an editor is displayed when entering the menu. The handset name is typed in by using the numeric keys and afterward pressing the left softkey “Save”. The handset name is displayed in the third line of the idle display.

6.5.8 Line

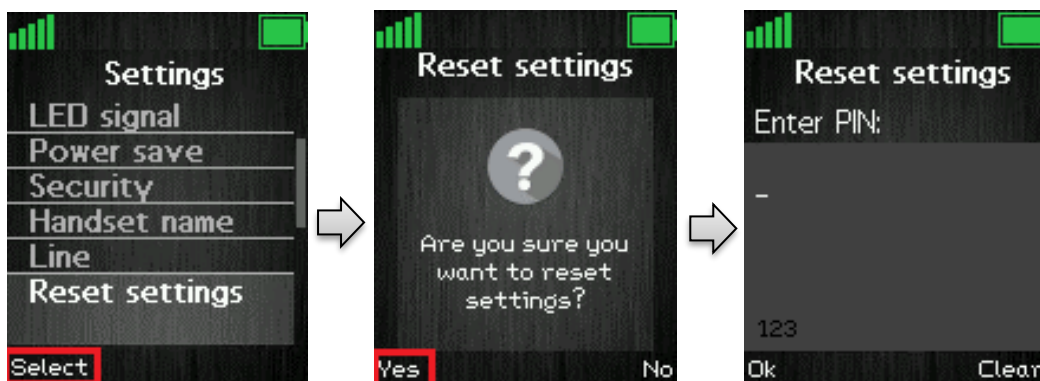
If the handset is used in a multiline environment, it is possible to select preferred lines for the handset to make outgoing calls from this “Line” menu as shown below.



NOTE: To see additional information on this “Line” feature, please check the base system document via [2].

6.5.9 Reset settings

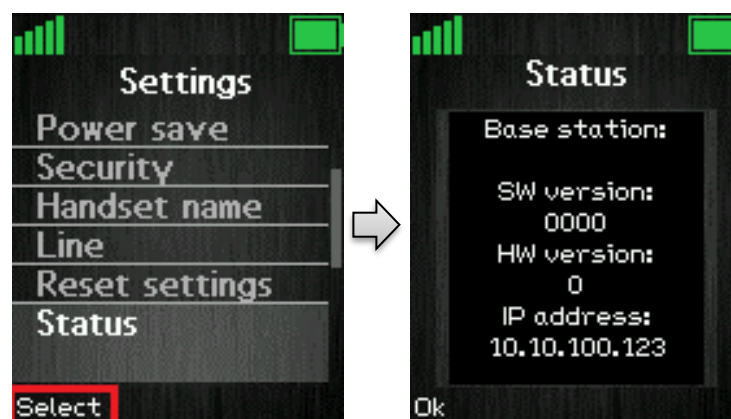
The handset settings can be reset to default settings by selecting menu “Reset settings”.



As it can be seen above, the handset PIN code is required to reset the handset to its default settings. After such a reset the handset is still registered. The base is not reset to default when selecting this feature.

6.5.10 Status

The menu “Status” delivers some useful information to the end user such as Handset and Base station status.



The displayed information is as follows.

Base station:

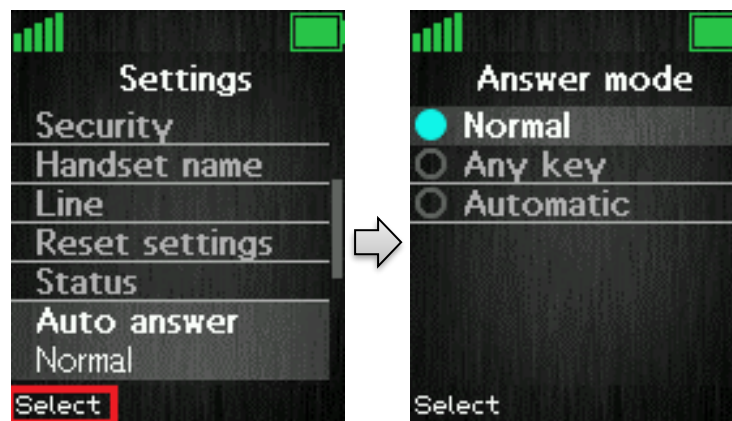
- Software version (the current software version of the base station)
- Hardware version (the hardware version of the base station)
- IP address (the IP address of the base station)
- MAC address (the MAC address of the base station)
- System name (the name of the system of base stations that the handset is registered to)

Handset status:

- Software version (the current software version of the handset)
- Hardware version (the hardware version of the handset)
- DECT band (the DECT band that the handset is using, e.g. EU or US)
- Battery level (the current battery level of the handset)
- IPEI (the IPEI/IPUI number of the handset is a static number identifying the specific handset)

6.5.11 Auto Answer

In this menu it is possible to change the settings for auto answer on the handset.



The “Auto answer” feature makes it possible for the handset to automatically answer an incoming call. This setting can be set to the following conditions:

Normal

With this enabled the handset does not answer a call automatically, but the user must always press the green “Off-hook” key to answer a call. The call is not answered by removing the handset from the charger.

Any key

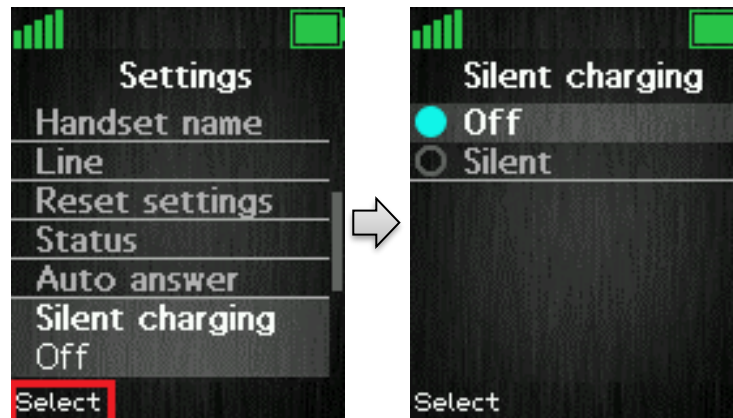
In this mode pressing any key on the keypad (except from the red “On-hook” key, and the three softkeys that still have their different functions) will answer an incoming call. The call is not answered by removing the handset from the cradle/charger.

Automatic

If the feature “Automatic” is enabled on the handset, then the incoming call is answered automatically after 5 seconds.

6.5.12 Silent Charging

The option of “Silent charging” enables the possibility of the handset not ringing during charging. The handset must be placed in the charger in order for this to work as mentioned below. The options of silent charging are seen below.



Off

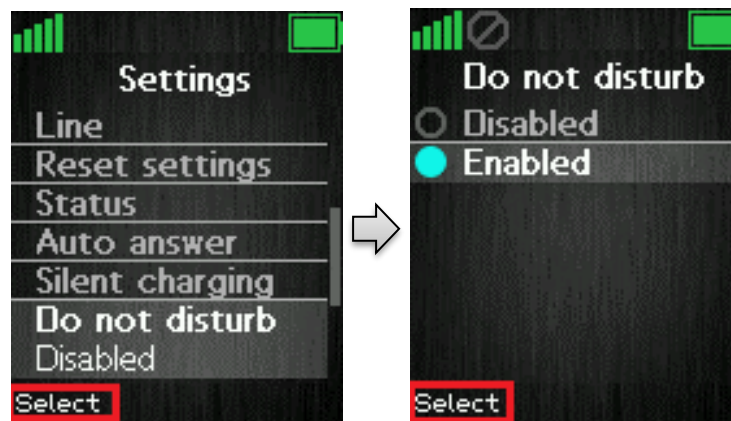
The handset is ringing when receiving incoming calls (audio alert and incoming call screen displayed).

Silent

The handset receives an incoming call as normal, but it does not ring (i.e. no audio alert but the incoming call screen is displayed).

6.5.13 Do Not Disturb

This “Do not disturb” feature is to be used when the handset user does not want to be disturbed.

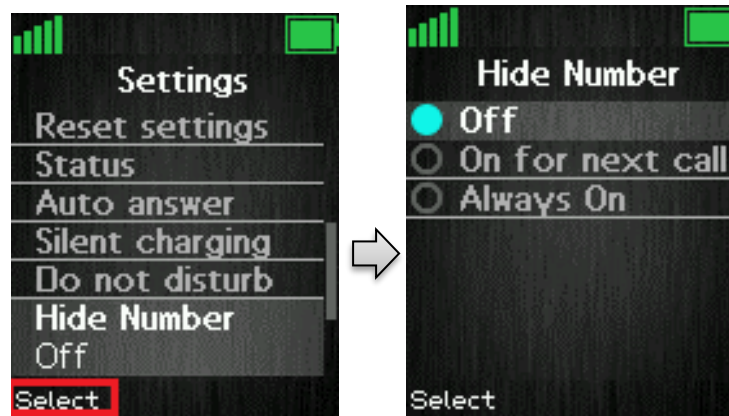


With this feature disabled, the handset reacts as normal on all incoming activities. If the function is enabled, though, the handset will not react, and the calling counterpart will be directed to voice mail if this feature is enabled.

The “Do not disturb” icon  is displayed in the status bar when “Do not disturb” is enabled on the handset.

6.5.14 Hide Number

The “Hide Number” function enables that the user can make a call where the counterpart cannot see the caller ID of the caller.



Off

When the “Hide Number” function is set to “Off” with the left softkey, the caller ID of the handset is displayed to the counterpart of the call.

On for next call

If this function is enabled, then the caller ID will be hidden to the counterpart only for the next outgoing call, and then for the following calls the number will not be hidden anymore.

Always on

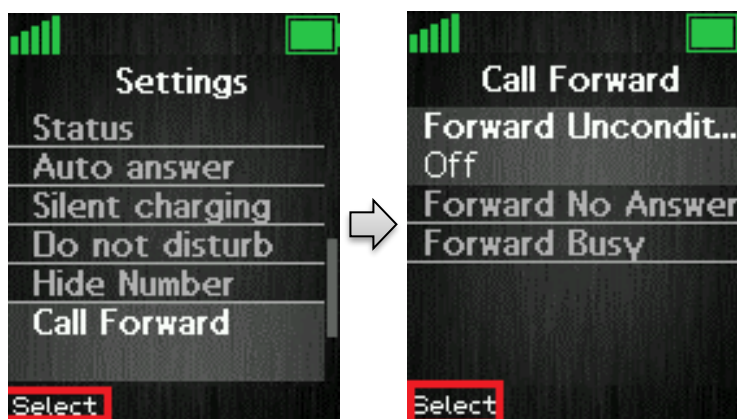
With the “Always on” enabled, the caller ID will be hidden for the counterpart for all outgoing calls initiated until this feature is disabled again.

NOTE: When hide number enabled, base sends SIP header “Privacy: id” to address sip:anonymous@anonymous.invalid

The PBX must support anonymous calls otherwise the call will be rejected, and the handset cannot make an outgoing call if this feature is enabled.

6.5.15 Call Forward

The “Call Forward” feature enables the user to forward all incoming calls in different cases as described below.



Forward Unconditionally

If this feature is enabled all incoming calls to the handset will be forwarded to the number setup in “Forward To” as seen below.



In this case the handset will not receive any incoming calls, but all calls will automatically be forwarded to the number setup in “Forward To”.

Forward No Answer

This feature controls if incoming calls to the handset should be forwarded if the call is not answered.



By enabling “Forward No Answer” incoming calls to the handset are forwarded if the call has not been answered during a certain time period as for example 90 seconds [Forward After (s)]. This feature is setup in the same way as “Forward Unconditionally” as displayed above.

Forward Busy

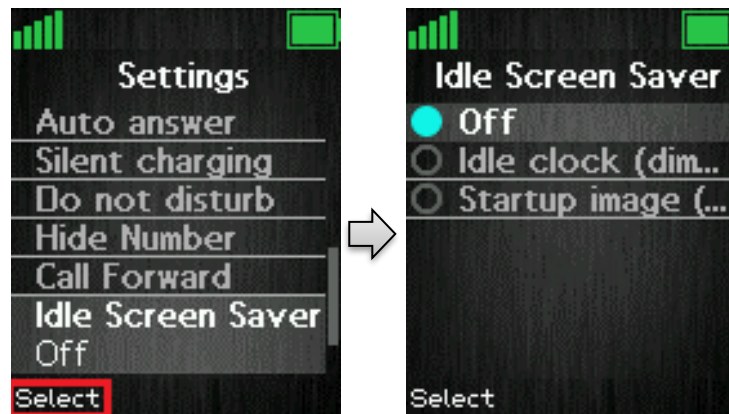
The “Forward Busy” function controls if the handset will forward the call when busy; e.g. when the user is in another call.



When “Forward Busy” is enabled, the handset forwards all incoming calls if the handset is busy, or if the user presses “Reject” on the call. This feature is enabled in the same way as “Forward Unconditionally” which is showed above.

6.5.16 Idle Screen Saver

The idle screen saver has the function that when the handset is in the charger, the handset screen will dim the lights, but never turn off if this feature is enabled.



Idle clock (dimmed)

By choosing this option the handset will show the idle screen with dimmed lights when the handset enters power save mode when in charger.

Startup image (dimmed)

If this option is selected the handset will show the startup image with dimmed lights when the handset enters power save mode when in charger.

6.5.17 Idle Clock

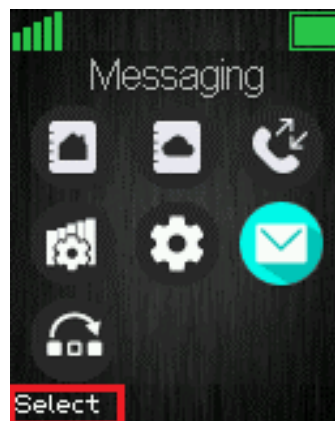
The “Idle Clock” function controls if the clock is showed in the idle display or not.



By selecting “Off” the idle clock will not be displayed in idle, and by selecting “On” the clock is displayed in idle.

6.6 Messaging

The text messaging function makes it possible to send text messages to other handsets on the system. From idle the text messaging menu is reached by pressing the menu activity key , and then selecting the 'Messaging' menu as displayed below.



6.6.1 How to Setup Text Messaging

For the text messaging function to work on the handset, this needs to be enabled on the base station web interface.

Home/Status

Extensions

Servers

Network

Management

Firmware Update

Time

Country

Security

Central Directory

Multi cell

Repeaters

Alarm

Statistics

Diagnostics

Configuration

Syslog

SIP Log

Logout

SME VOIP

Management Settings

Base Station Name: SME VOIP

Settings

Management Transfer Protocol: TFTP
HTTP Management upload script:
HTTP Management username:
HTTP Management password:
Enable Automatic Prefix: Disabled
Set Maximum Digits of Internal Numbers: 0
Set Prefix for Outgoing Calls:

Configuration

Configuration File Download: Base Specific File
Configuration Server Address:
Base Specific File:
Multi Cell Specific File:
Auto Resync Polling: Disabled
Auto Resync Time:
Auto Resync Days:
Auto Resync Max Delay:
DHCP Controlled Config Server: DHCP Option 66
DHCP Custom Option:
DHCP Custom Option Type:

Text Messaging

Text Messaging: Disabled
Text Messaging & Alarm Server:
Text Messaging Port: 1300
Text Messaging Keep Alive (m): 30
Text Messaging Response (s): 30
Text Messaging TTL: 0

Syslog/SIP Log

Upload of SIP Log: Disabled
Syslog Level: Debug
Syslog Server IP Address:
Syslog Server Port: 514

Save and Reboot

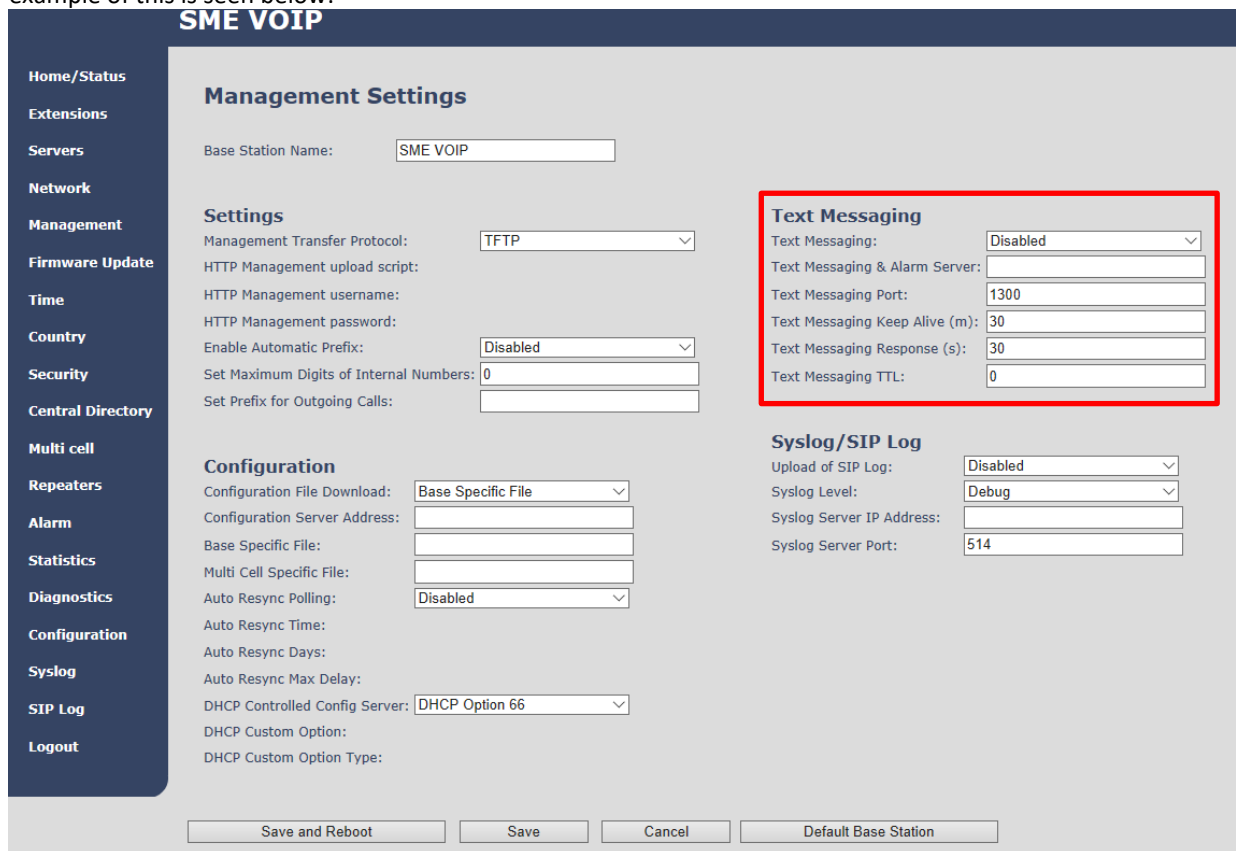
Save

Cancel

Default Base Station

As seen above the text messaging feature is enabled on the handsets via “Management” on the base station web interface. With this feature enabled it is possible to send text messages from one handset on the system to another handset on the system. In this case, the “Text Messaging” needs to be enabled (with or without a server).

Additionally, it is possible to send the text messages via a text messaging server (MobiCall server) which enables handsets on different systems of base stations to send text messages to one another. When using a text messaging server for text messaging, the “Text Messaging” must be “Enabled”, the “Text Messaging & Alarm Server” needs to be filled out, and the correct port number must be entered in “Text Messaging Port”. An example of this is seen below:



SME VOIP

Management Settings

Base Station Name:

Settings

Management Transfer Protocol:

HTTP Management upload script:

HTTP Management username:

HTTP Management password:

Enable Automatic Prefix:

Set Maximum Digits of Internal Numbers:

Set Prefix for Outgoing Calls:

Text Messaging

Text Messaging:

Text Messaging & Alarm Server:

Text Messaging Port:

Text Messaging Keep Alive (m):

Text Messaging Response (s):

Text Messaging TTL:

Configuration

Configuration File Download:

Configuration Server Address:

Base Specific File:

Multi Cell Specific File:

Auto Resync Polling:

Auto Resync Time:

Auto Resync Days:

Auto Resync Max Delay:

DHCP Controlled Config Server:

DHCP Custom Option:

DHCP Custom Option Type:

Syslog/SIP Log

Upload of SIP Log:

Syslog Level:

Syslog Server IP Address:

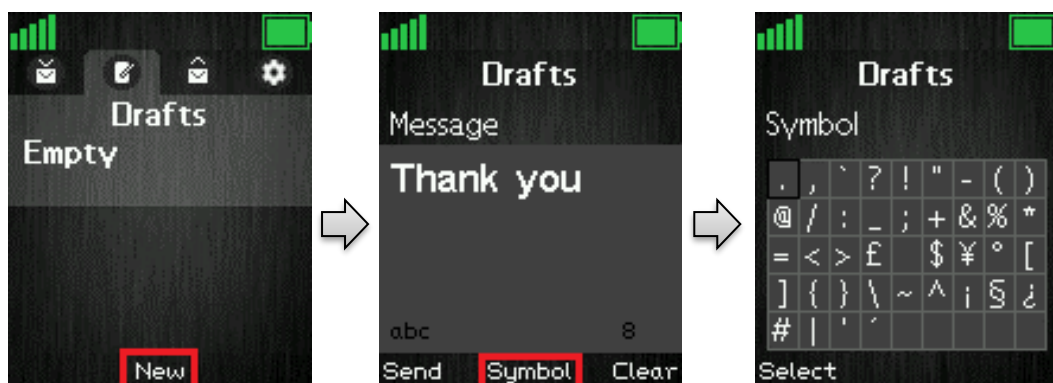
Syslog Server Port:

Save and Reboot Save Cancel Default Base Station

For further information on the text messaging feature and setup on the base station see the base station manual via reference [3].

6.6.2 How to Write a New Message

When opening the menu ‘Messaging’ the menu ‘Drafts’ is reached, and it is possible to write a new message by pressing the middle navigation key, or the middle softkey called “New”.



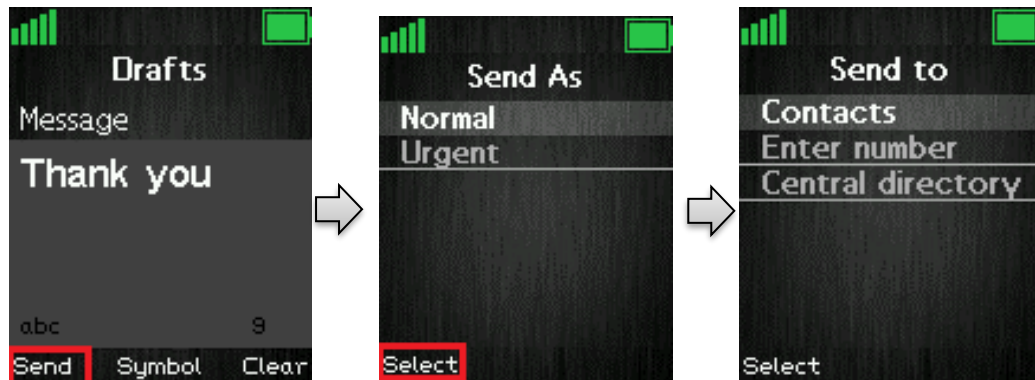
As displayed above, pressing ‘New’ makes it possible to write a new message using the keypad. The maximal message text length is 160 characters, and the number of characters typed are displayed at the bottom right corner of the text field.

To choose other symbols than those available on the keypad press the middle softkey 'Symbol', and an amount of symbols will be available to select. If in need of deleting what has just been written the right softkey 'Clear' can be pressed, and the previous character is hereby deleted.

NOTE: Use the -key to switch between the input modes 'Abc', 'ABC', '123', and 'abc'.

6.6.3 How to Send a New Message

When a new message has been written, press the left softkey "Send" to send it.



By pressing 'Send', two options are presented. The message can either be sent as 'Normal', or as 'Urgent'.

Normal

If a message is sent as 'Normal', the message is displayed as normal in the counterpart's inbox.

Urgent

When a message is sent as 'Urgent', the message is displayed with an exclamation mark in the counterpart's inbox, and with an exclamation mark in the 'Sent messages'. Urgent messages are always displayed at the top of the inbox.

Choosing either of these two options, three different possibilities are given as to who the message can be sent to as seen above.

Contacts

By selecting this option the contact list is displayed, and the message can be sent to one of the local contacts in the contact list.

Enter number

In this option it is possible to enter a number, and thereby sending a message to this number.

Central directory

Selecting the 'Central directory' option opens the central directory list of contacts and makes it possible to send the message to contacts in this list.

6.6.4 How to Open and Reply to a Message

When a new message is received on the handset, the idle screen is displayed as seen on the first picture in the sequence below.



Press the left softkey to reply to the received message. The reply message can either be sent as 'Normal' or 'Urgent'. When choosing either of these two options and the contact number as seen in the previous chapter, the message is sent to the counterpart.

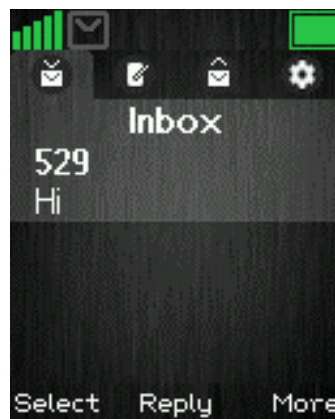
NOTE: When a new message is received and has not yet been read the following message icon  is displayed in the status bar at top of the display.

6.6.5 Four Messaging Submenus

When opening the messaging menu, it is possible to select the four submenus: Drafts, Inbox, Sent messages, and Settings. The submenus are organized in tabs whereby the left and right navigation keys are used to navigate between them. The content of these four submenus are described in the following sections.

6.6.6 Inbox

'Inbox' is the submenu that is opened when the 'Messaging' menu is selected. This menu contains all received messages on the handset.

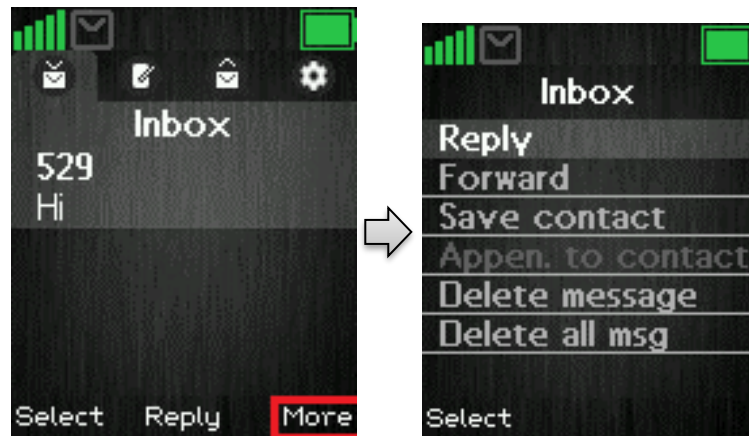


By pressing the middle softkey 'Reply' it is possible to reply to the highlighted message.

When selecting a highlighted message with the left softkey 'Select' this message is opened, and it is possible to use the left softkey to reply, or to enter the 'More' option described below directly from the message.

6.6.6.1 The More Option

The right softkey 'More' gives a list of options in the inbox which are described below.



Reply

With this option it is possible to reply the counterpart of the received message.

Forward

By selecting 'Forward', the newly received message is entered again, and can be edited and forwarded to another number.

Save as contact

With the function 'Save as contact' it is possible to save the number that the message was received from in the local phonebook.

Append to contact

With the 'Append to contact' option it is possible to append the number that the message came from to an already existing contact in the local phonebook of the handset.

Delete message

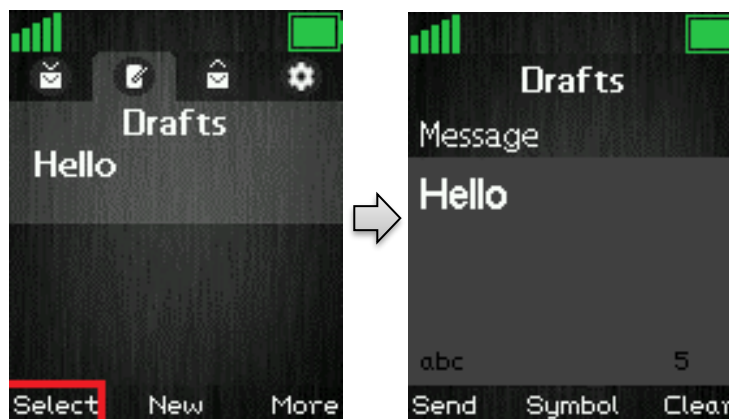
By pressing 'Delete message' either 'Yes' can be pressed to delete the message, or 'No' can be pressed return to the 'Inbox' menu.

Delete all messages

This option gives the possibility to delete all messages in the messaging inbox, and a 'Yes' or 'No' option is given. By pressing the left softkey 'Yes' all messages in the inbox are deleted, by pressing the right softkey 'No' the handset goes to the message inbox.

6.6.7 Drafts

When pressing the right navigation key one time in the messaging menu, the submenu 'Drafts' is opened. In this menu drafts are saved if a message has been written but was not sent.

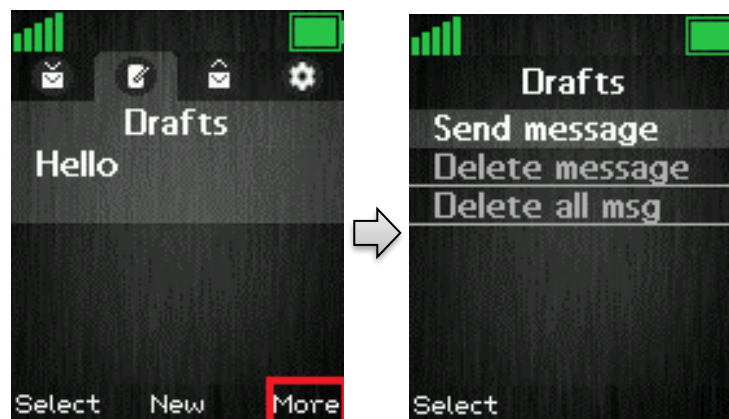


When pressing select on a highlighted draft, this is opened according to the last time that it was edited, and it is possible to edit it, and send it again.

To write a new message press the middle softkey 'New' in this 'Drafts' menu (this function is described in more detail in section 6.6.2 *How to Send a New Message*)

6.6.7.1 The More Option

When pressing the right softkey 'More' in 'Drafts' it gives the three possibilities that is displayed and explained below.



The option 'Send message' enters the message to edit and send. If 'Delete message' is chosen the current message can be deleted, and 'Delete all messages' gives the possibility to delete all messages in the 'Drafts' menu.

6.6.7.2 What is Stored in Drafts?

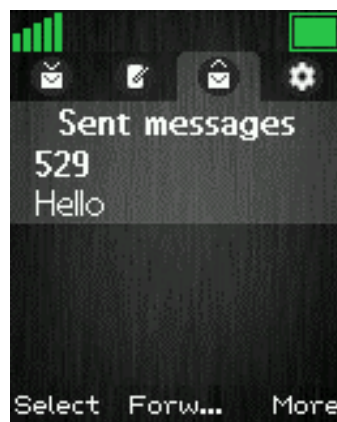
When writing a new message and then exiting with the red on-hook key before the message is sent, this message can be saved as a draft. This is displayed below.



By pressing the left softkey 'Yes' the message is saved as a draft and can be opened again in the 'Drafts' menu. If the right 'No' softkey is pressed the message is not stored as a draft, and the handset returns to the previously opened menu without saving the message.

6.6.8 Sent Messages

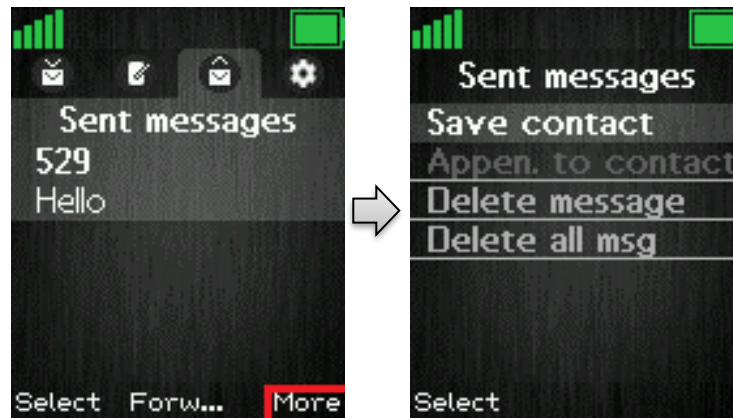
In the 'Sent messages' menu a complete list of the messages sent from the handset is displayed.



To open a sent message, scroll up/down to highlight it, and then press the left softkey 'Select'. By pressing the middle softkey, the message is opened, and it is possible to forward it to another handset than it was originally sent to.

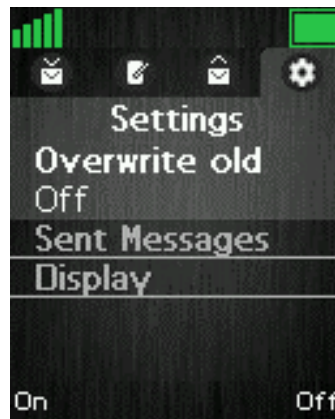
6.6.8.1 The More Option

When pressing the right softkey 'More' a list of options is given as seen below.



6.6.9 Settings

In the 'Settings' menu it is possible to set messaging options on or off. These options will be described below.



Overwrite old

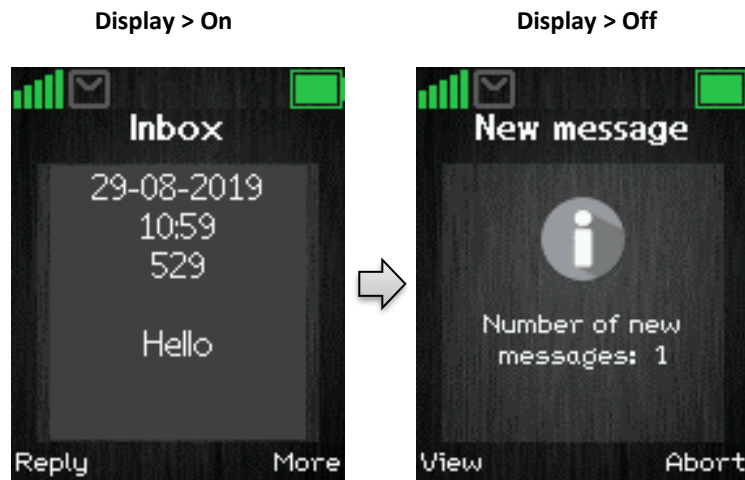
If this option is set to 'On' with the left softkey, then the oldest messages are overwritten if the maximum number of messages is reached. The maximum number of messages that can be stored in drafts, inbox, and sent messages is 250. If the number of 250 messages is exceeded, and the option is set to 'Off' then no new messages can be received before deleting some old messages manually.

Sent Messages

If this function is set to 'On' then the sent messages will be saved, whereas the sent messages will not be saved if it is set to 'Off'.

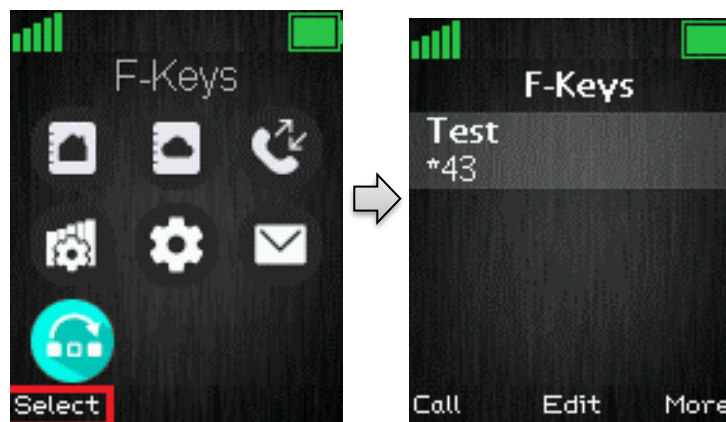
Display

This function controls if the content of new messages is displayed in idle when they are received, or if it is just displayed that a new message has been received. Below, it is displayed how the two settings are displayed in idle when a new message is received.

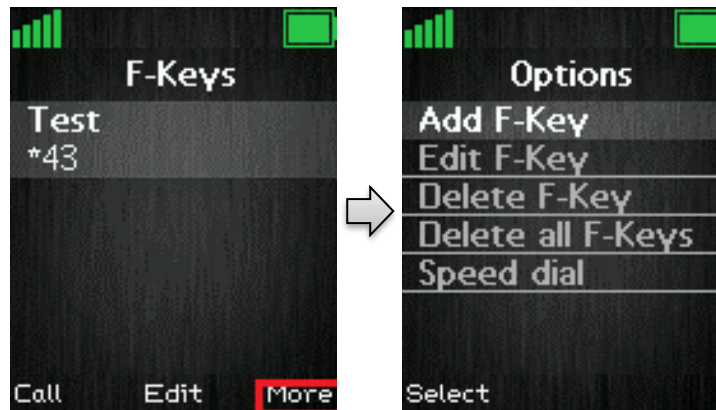


6.8 F-Keys

The "F-Keys" menu is entered through the menu by pressing the activity menu key  in idle. This menu controls functional keys to be set on the handset. This means that the handset user can add certain functional numbers in this menu; as for example the number to the user's mailbox.



When there are F-Keys saved in the list it is possible to call each F-Key number by pressing the left softkey “Call”. Additionally, each F-Key contact can be edited directly from the F-Key list by pressing the middle softkey “Edit”. When pressing the right softkey “More” the following options are possible to select.



Add F-Key

To add a new F-key press the right softkey “More” and it is possible to add a new functional key. In the case of e.g. adding a user’s mailbox, pressing the right softkey “Edit” makes it possible to enter the name and number, respectively. For the new F-key to be saved, press the left softkey “Save”, and this F-key is added to F-keys.

Edit F-Key

This feature enables an existing F-key to be edited, if the name or number needs changes.

Delete F-Key

By selecting “Delete F-Key” the message “Delete current contact from F-Key list?” appears on the screen, and it is possible to press the left softkey “Yes”, to delete the currently highlighted F-Key, or to press the right softkey “No”, to cancel and go back to the F-Keys menu.

Delete all F-Keys

With this function it is possible to delete all the saved F-Keys on the handset. When selecting “Delete all F-Keys” the message “Delete entire F-Key list?” appears, and by pressing left softkey “Yes”, this action is performed, whereas pressing the right softkey “No”, cancels the action and returns to the F-Keys menu.

Speed dial

When selecting “Speed dial”, the list with speed dial numbers appears. Those are the numbers that are assigned to keys 2-9.

From this menu it is possible to add the chosen F-Key to a speed dial number with the left softkey “Add”. If an already existing speed dial entry is highlighted the left softkey gives the opportunity to “Replace” the current speed dial entry with this one.

To delete a speed dial entry, press the right softkey “Delete” and the entry is deleted straightaway.

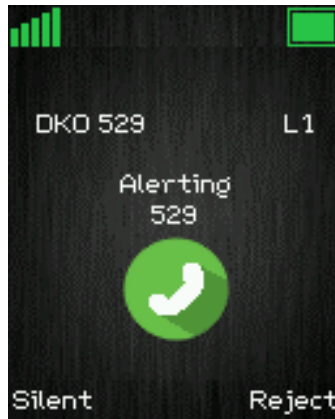
NOTE: This speed dial list uses both contacts from the contact list, and from the F-Keys list. For additional information on this feature see the section *6.1.4 Speed Dial/On Touch Dial*.

7 Calls Operations

In this section the different types of calls and call handling are described.

7.1 Incoming call

As the handset receives an incoming call an alerting screen will be displayed as seen below. This will be accompanied by a ring signal and/or a vibrating handset according to the respective settings on the handset.



The calling party's handset number will be shown in the display, and an additional name is displayed if the calling party's handset number is stored in the local phonebook.

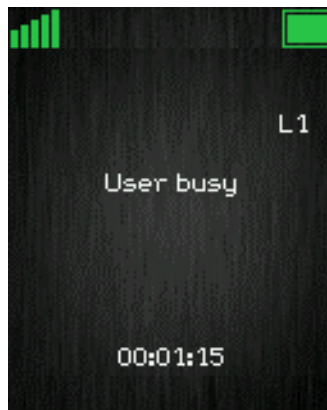
7.1.1 Answering an Incoming Call

To answer an incoming call, press the green "Off-hook" button , or press the "Loudspeaker" key  to answer the call in speaker mode.

NOTE: When "Auto answer" is set to "Automatic" an incoming call is answered automatically after one ring signal. If "Auto answer" is set to "Any key" an incoming call can be answered by pressing any key on the keypad, and not just the green "Off-hook" button.

7.1.2 Reject an Incoming Call

It is possible to reject an incoming call by pressing the right softkey "Reject" when receiving an incoming call. This way the calling party will receive a busy tone, and "User busy" displayed on the screen as shown in the picture below.



NOTE: An incoming call can also be rejected by pressing the red "On-hook" key.

7.1.3 Silencing an Incoming Call

When the handset is alerting it is possible to press the left softkey “Silent” whereas the handset will continue to alert, but without any heard ringing.

7.1.4 Ending a Call

To end an ongoing call, press the red “On-hook” key , and the call will be terminated. The duration of the call is shown in the display. Furthermore, this duration time can also be viewed from the call list where the call is stored.

NOTE: If one call is active and another call is on hold, then the active call will be terminated when pressing the red “On-hook” button, and the handset automatically returns to the call on hold; i.e. the call on hold is now active, and the user must press the red “On-hook” button again to terminate this call.

7.2 Initiating a Call

A call can be initiated from different locations on the handset:

- By entering the number directly from idle
- From the “Contacts” menu
- From the “Calls” menu
- From the “Central Directory”

How to initiate a call from these different directories is explained in the following sub sections.

7.2.1 Initiating a Call from Idle

When initiating a call, it must be done according to the following:

1. Enter the number of the person you want to call when the handset is in idle.
2. Press the green “Off-hook” button  to call the number.



3. The handset will show a “Calling” screen as seen above.
4. When the counterpart answers the call, the screen will show “Connected”, and the two parts are now in call.

7.2.2 Initiating a Call from Contacts

To initiate a call from the contact list, there must be contacts added to the local phonebook. When this prerequisite is met, a local contact can be called by highlighting the contact in the contact list and then pressing the left softkey “Call”, or pressing the green “Off-hook” button.

NOTE: The list of local contacts can be reached from the menu “Contacts” or directly from idle by pressing the left softkey when in idle.

7.2.3 Initiating a Call from Calls

The number of outgoing, incoming, or missed calls can be called directly from the call list by highlighting the number and pressing the left softkey “Call” or the green “Off-hook” button to call the entry.

NOTE: The “Calls” list can be reached from the menu “Calls” or directly from idle by pressing either the green “Off-hook” button or the right softkey when in idle.

7.2.4 Initiating a Call from the Central Directory

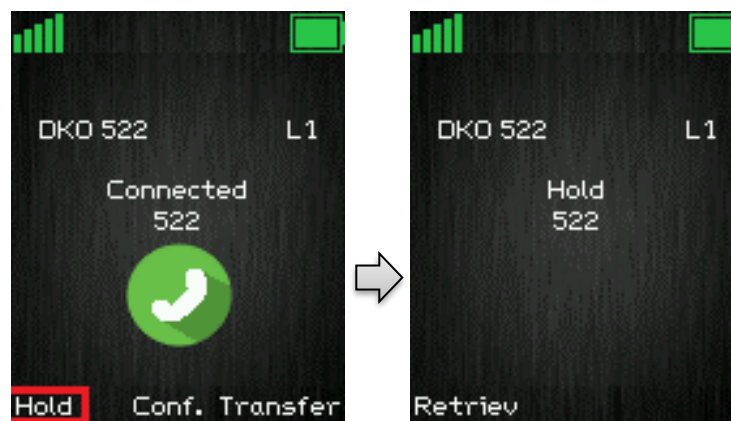
When opening the “Central directory” a call can be made to a specific contact by searching for this contact and thereby enter the list from which a contact can be called by pressing the green “Off-hook” key.

If different numbers are assigned to one contact a green arrow is showed to the right of the contact, and the right/left navigation keys can be used to choose which number that should be called.

NOTE: The “Central Directory” can be reached both from the menu “Central Directory” or directly from the idle by pressing the middle softkey when in idle.

7.3 Call Holding/Retrieving

It is possible to hold a call which means that the one party of the call is put on hold and cannot hear the other party but can only hear a repeated short tone on hold until the call is retrieved.



1. To put the counterpart of the call on hold press the left softkey “Hold” and this party is put on hold.
2. To retrieve the call, and thereby continue the conversation, press left softkey “Retrieve” which is only showed on the screen when the other party of the call is put on hold.

NOTE 1: If one call is active and another call is on hold, then the active call will be terminated when pressing the red “On-hook” button, and the handsets automatically return to the call on hold, i.e. the call on hold is now active and the user must press the red “On-hook” button again to terminate this call.

NOTE 2: When the counterpart is put on hold it is also possible establish a second call and make a conference, swap or transfer which will be explained in the following sections.

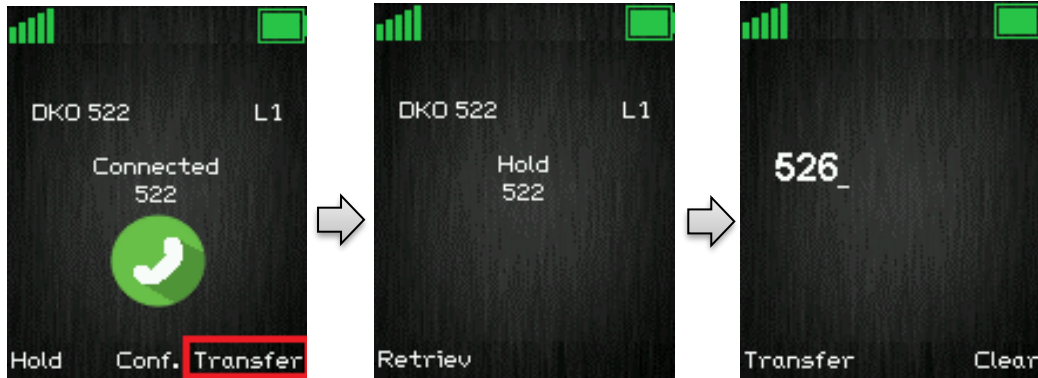
7.4 Attended and Unattended Transfer of a Call

When in an ongoing call, it is possible for either party to transfer the call, either attended or unattended, to another handset.

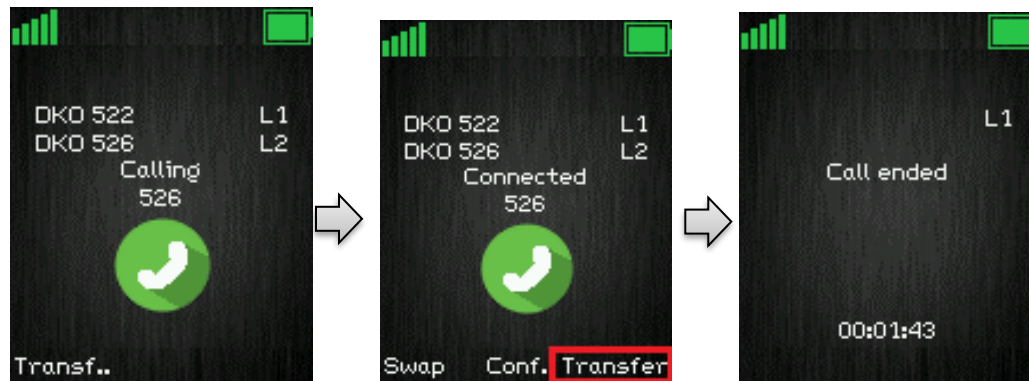
7.4.1 Attended Transfer

In an attended transfer the party that call is transferred to, is called before the transfer is made. The procedure to do this is as follows.

1. Initiate a call with a counterpart, so that the handset displays “Connected” as shown below.



2. Press the right softkey “Transfer” on either of the handsets in call, and the counterpart of the call is put on hold.
3. Enter the number that the transfer should be made to, and press the green “Off-hook” button 



4. A ring back tone is heard, and a third party is called.
5. As the third party answers the call the handset user initiating the transfer will show a connected screen as seen above.
6. To make the transfer after the third party has answered the call, press the right softkey “Transfer”, and the call is transferred so that the second and third party are now in call, and a “Call ended” screen is displayed on the handset that initiated the transfer as seen above.

NOTE: It is also possible to make an attended transfer by pressing either the left softkey “Hold”, or the middle softkey “Conf.” instead of pressing the right softkey “Transfer” in step 2.

7.4.2 Unattended Transfer

When making an unattended transfer, the call will be transferred directly to a third party without the party initiating the transfer needing to call this third party before the transfer.



1. Initiate a call with a counterpart so that the handset displays “Connected” as shown above.
2. Press the right softkey “Transfer” on either of the handsets in call, and the counterpart of the call is put on hold.
3. Enter the number that the transfer should be made to, and press transfer.
4. This will end the call on the first handset party (screen showing “Call ended”) and the second party will stop being on hold and hear a ring back tone instead, which indicates that this handset is now calling the third party.
5. When the third party answers the call, an unattended transfer has been made and the second and third party are now in call.

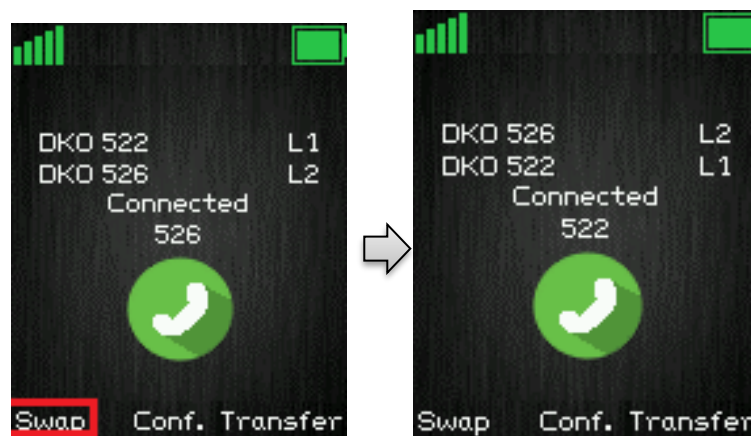
NOTE: As with attended transfer, it is also possible to make an unattended transfer by pressing either the left softkey “Hold”, or the middle softkey “Conf.” instead of pressing the right softkey “Transfer” in step 2.

7.5 Swap between Two Calls

It is possible to swap between two calls. In this case, one party will be in ongoing call, and the second party will be on hold. I.e. “Swap” means that it is possible to toggle between these two parties.



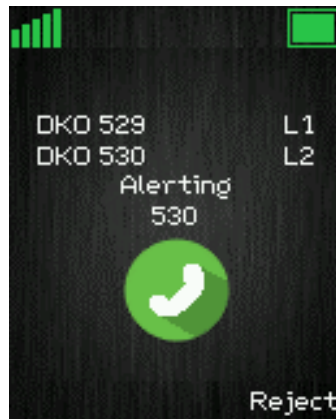
1. Initiate a call with a counterpart so that the handset displays “Connected” as shown above.
2. Put this call on hold by pressing the left softkey “Hold”.
3. Enter the number of a second party and press the green “Off-hook” button.
4. A ring back tone is now heard in the handset, as the second party is alerting.



5. As the second party answers the call a “Connected” screen as above is displayed.
6. By pressing the left softkey “Swap” the ongoing call is now back to the first party, whereas the second party is now put on hold.
7. From this point, it is possible to toggle between the two parties by pressing “Swap”. For each time that “Swap” is pressed a toggle is made between the two external parties, and the “Connected” screen shows the phone numbers to indicate if it is the first or second call that is ongoing.

7.6 Call Waiting

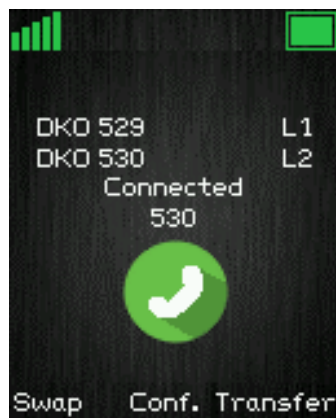
When two parties are in call it is possible to receive a call waiting on one of the handsets. This means that a third party calls one of the two parties already in a call. During a call waiting two short beeps are heard every three seconds in the handset receiving the call waiting, and the following screen is displayed:



In this case it is seen that the call waiting is from party 526.

It is possible to reject the call waiting with the right softkey "Reject", and hereby continuing the ongoing call with the first party.

If the call party wants to answer the call waiting, the green off-hook key should be pressed, and the following screen is displayed:



This indicates that the party now has two ongoing calls with one of them on hold (525), and it is possible to swap between them, make a conference, or transfer one of the parties.

7.7 Conference Call

In a conference call there are always at least three parties in the same conversation. Hereby, this feature enables the user to have an ongoing call with more than one person – the parties in a conference call are called participants.

7.7.1 Establishing a Conference Call

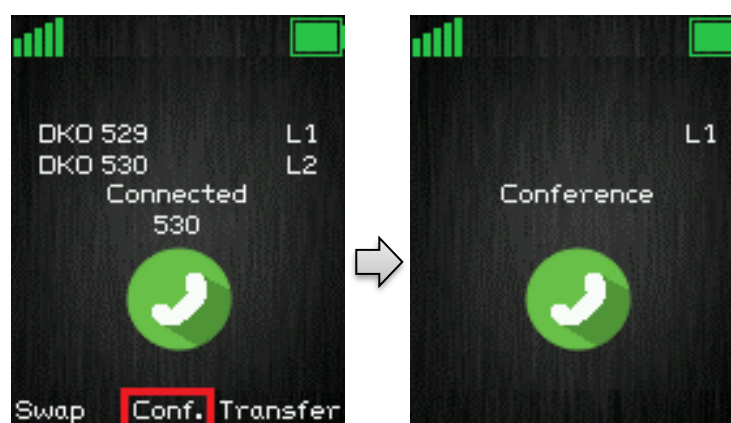
In the following, it is described how to establish a conference call between three parties.

1. Initiate a call with a counterpart so that the handset displays “Connected” as shown below.
2. Press the middle softkey “Conf.” to start a conference call.
3. The second party is put on hold and will hear a tone on hold.
4. Enter the number of the party to invite to the conference and press the green “Off-hook” button  to call this participant.



5. When the called party answers the call, the second party is still on hold, and the conversation is only between the third party and the first party, i.e. initiator of the conference.
6. To start conversation between the three parties – i.e. a conference – press the middle softkey “Conf.”

The “Conference” screen as seen below will then be displayed, and the three participants will be in a conference call. Thereby the conversation is between all three parties



NOTE 1: It is possible to invite more participants to the conference by repeating the steps 2. – 6. for one of the participants in the conference that has not yet invited a party to the conference. Once a participant has invited a new party to the conference it is not possible for this participant to invite new parties to the conference.

NOTE 2: The maximal number of participants to participate in a conference call is set according to the number of bases in a system. On a system with two bases it should be possible to have 10 participants in a conference call.

7.7.2 Terminating a Conference Call

When a conference call is terminated it is dependent of which participant that terminates it, if the whole conference is terminated, or if the conference is ongoing between the two participants left in the conference.

Option 1

1. The user who has started the conference presses the red “On-hook” key  to terminate the conference call.
2. The whole conference is terminated, and none of the participants continue to be in call.

Option 2

1. One of the participants that have been invited to the conference presses the red “On-hook” key  to terminate the conference call.
2. The call is only terminated for the participant that terminated the call
3. There is still an ongoing call between the initiator of conference and the participant that has not ended the call.

NOTE: Different configurations on the PBX that the base system uses may result in different terminations of a conference call. E.g. the configuration of some PBX's could cause that the whole conference call is not terminated if the initiator of the conference presses the red “On-hook” key to terminate.



8 Accessories

It is possible to get different accessories to the RTX SME VoIP 8440 handset. These different accessories are listed in the following:

- Single Charger
- Belt Clip
- Battery
- Battery Cover
- Adapter for charger

Adapters for charger

Module number	Specification	Specification	Plug Type
S005CAV0500100	SMPS, 100-240VAC, 5.25V 1A with USB socket	Ten Pao International LTD	EU
S005CAB0500100			UK
S005CAS0500100			AU
S005CAU0500100			US
S008ACM0500100			Multi-Plug (Body)

For S008ACM0500100, user can use different Adapter Plug listed below:

Module number	Specification	Specification	Plug Type
8W,VDE	8W, VDE Adaptor Plug	Ten Pao International LTD	EU
8W,UL	8W, UL Adaptor Plug		US
8W,SAA	8W, SAA Adaptor Plug		AU
8W,BS	8W, BS Adaptor Plug		UK



9 Troubleshooting

This troubleshooting section contains information on how to solve some operational problems that you may experience on the handset.

9.1 Operational problems

State: *The handset does not ring*

Problem cause: The sound off icon is seen in the status bar; hence the handset is silent mode.

Action: Increase the volume in Audio Settings, or long press the #-key in idle.

NOTE: If the Audio Settings is greyed out and cannot be changed, it is because the silent mode is enabled by long pressing the #-key. Please, long press the #-key in idle to disable this silent mode.

State: *The handset does not respond when pressing on the keys*

Problem cause: The keylock is enabled, and a “Press and hold *” screen is displayed when pressing any key.

Action: Long press (press for more than 2 seconds) the *-key.

State: *The handset shows “Searching” in the display*

Problem cause: The handset is out of the coverage area of the base station system.

Action: Please move the handset back in coverage of the base system.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For Handset

SAR tests are conducted using standard operating positions accepted by the FCC with device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model device is available for sale to the public, it must be tested and certified to the FCC that it

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does not exceed the exposure limit established by the FCC, tests for each device are performed in positions and locations as required by the FCC. For body

worn operation, this model device has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

For Base

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter located or operating in conjunction with any other antenna or transmitter.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED Warning:

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED Specific Absorption Rate (SAR) information

For Handset

SAR tests are conducted using standard operating positions accepted by the ISED with device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model device is available for sale to the public, it must be tested and certified to the ISED that it does not exceed the exposure limit established by the ISED, tests for each device are performed in positions and locations as required by the ISED. For body worn operation, this model device has been tested and meets the ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.



For Base

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Radiation Exposure Statement:

For Handset

SAR l'utilisation des règles sma l'emplacement Le matériel de transmission et fonctionnant dans tous les essais à la certification, même si la puissance suprême a décidé le niveau, utilisation spécifique peut être très en deçà de la valeur de référence maximale. Types de matériel sont vendus au public un ancien, d'essai et de certification de l'exposition, limite maximum sma, chaque document et l'emplacement du matériel d'essai et conformément au document. Le modèle en physique, matériel d'essai et conforme aux directives d'exposition des radiofréquences sma quand une annexe désigné pour ce produit lors de leur utilisation ou

des pièces de rechange ne contiennent pas de métal.

For Base

Cet équipement est conforme aux limites d'exposition aux radiations ISED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.