8.7 Settings

8.7.1 Sound and Alert Settings

Adjust the Ringer Volume

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Sound & Alerts.

4   Select "Volume".

5   Step with ⟩ to increase the volume and with ⟨ to decrease it. Press "Back" to save the setting.

Set different Ring Signals for Internal Call, External Call and Call Back

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Sound & Alerts".

4   Select "Ring signals".

5   Different signals for internal calls, external calls and call back can be set. Select "Internal call", "External call", or "Callback". The handset has 14 different ring signals.

6   Select sound. By pressing "Play" it is possible to listen to the different sounds.

7   Press "Back".

Set Alert for Messages

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Sound & Alerts".

4   Select "Message alert".

5   Select between 8 different message alerts from list. By pressing "Play" it is possible to listen to the different alerts.

6   Press "Back".

Turn the Vibrator on/off

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Sound & Alerts".

4   Select "Vibrator alert".

5   Select "On", "On if silent" (that is, the vibrator is on when the handset is muted), or "Off"

6   Press "Back".

Set the Key Sound

This means that every time a key is used, the handset gives a small sound.

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Sound & Alerts".

4   Select "Key sound".

5   Select "Silent, "Click", or "Tone".
       It is possible to listen to the key sound by pressing "Play".

6   Press "Back".

8.7.2   Phone Lock settings

Activate the Automatic Key lock

Note: It is possible to answer/end an incoming call while the keypad is locked. If configured in the PDM/IMS2, it is also possible to call an emergency call while the keypad is locked. See *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB*.

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Locks".

4   Select "Automatic key lock".

5   Select "On" for activation of automatic key lock.

Deactivate the Automatic Key lock

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Locks".

4   Select "Automatic key lock".

5   Select "Off" for deactivation of automatic key lock.

Activate the Phone Lock

The handset can be protected for unauthorized use. If this function is activated a PIN code has to be entered at power on, or when the handset is placed in a charger - this behaviour will first be activated when the handset is placed in the charger. The default phone lock code (0000) can be changed to any 4 -8 digit personalized code.

Note: If configured in the PDM/IMS2, it is possible to call an emergency call while the handset is locked. See *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB*.

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Locks".

4   Select "Phone lock".

5   Select "Auto phone lock".

6   Select "On", or "On in charger".

7   Enter PIN code

8   Press "OK".

If the PIN code is forgotten it can be removed by your distributor.

Deactivate the Phone Lock

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Locks".

4   Select "Auto phone lock".

5   Select "Off".

6   Enter PIN code

7   Press "OK".

If the PIN code is forgotten it can be removed by your distributor.

Change PIN Code

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Locks".

4   Select "Phone lock".

5   Select "Change PIN code".

6   Enter the old PIN code.

7   Press "OK".

8   Enter the new PIN code.

9   Press "OK" and enter the new PIN code again.

10   Press "Save".

8.7.3   Display Settings

Screen Saver

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Display".

4   Select "Screen saver".

5   Select "Information", or "Black". Time and status information will be displayed when "Information" is selected, and the display will turn off when the handset is not used.

6   Press "Back".

Brightness

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Display".

4   Select "Brightness".

5   Select "Normal" or "Power save".

6   Press "Back".

Contrast

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Display".

4   Select "Contrast".

5   Step with ⟩ to increase and ⟨ to decrease the contrast.

6   Press "Back".

8.7.4   Time & Date Settings

The "Time & Date" format is used in systems without system time and date.

Set Time Format

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Time & Date".

4   Press "Select".

5   Select Time format. The actual time format will be displayed. Selectable time
        format:

        • 12:00 (AM/PM)
        • 24:00

6   Press "Select" to save the setting.

Set Date Format

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Time & Date".

4   Press "Select".

5   Select "Date format", press "Select". Selectable date format:

        • DD MMM YY, for example 30 Jan 10
        • MMM DD YYYY, for example Jan 30 2010
        • YYYY-MM-DD, for example 2010-01-30 (ISO 8601)
        • MM/DD/YYYY, for example. 01/30/2010 (also called US)
        • DD/MM/YYYY, for example 10/01/2010 (also called Europe)
        • DD-MM-YYYY, for example 30-01-2010
        • DD.MM.YYYY, for example. 30.01.2010

6   Press "Select" to save the setting.

8.7.5 Answering

The default setting for the handset is to use ⌒ when answering a call. The answering behaviour can be configured to answer the call automatically, that is, without pressing a key, or/and in loudspeaking mode. It is also possible to set the answering behaviour to any key. If "Any key" is selected, any key except ⊗ , ⌗♪ , and ▢ can be used to answer a call.

Answering Key

The answering key is by default set to *Hook-off.*

1   Enter the menu by pressing "Menu".

2   Select ✖ in the menu.

3   Select "Answering".'

4   Select "Answering key".

5   Select "Hook-off", or "Any key".

6   Press "Back" to save the settings.

Answering Behaviour

1   Enter the menu by pressing "Menu".

2   Select ✖ in the menu.

3   Select "Answering".'

4   Select "Answer behaviour".

5   Select "Automatically" and/or "Loudspeaking".

6   Press "Change" to change the setting. The check box will be marked.

7   Press "Back" to save the setting. To remove the setting, press "Change". The check box will be unmarked.

8.7.6 Change Text size for Messages

1   Enter the menu by pressing "Menu".

2   Select ✖ in the menu.

3   Select "Messages".

4   Select "Text size Normal". The default text size is "Normal".

5   Select "Normal" or "Large" size.

6   Press "Back".

8.7.7 Change the Menu Language

1   Enter the menu by pressing "Menu".

2   Select ✖ in the menu.

3   Select "*Language".

4   Selec between "Ceština" (Czech), "Dansk" (Danish), "Deutsch" (German), "Ελληνικά" (Greek), "English", "Español" (Spanish), "Français" (French), "Italiano" (Italian), "Magyar", "Nederlands" (Dutch), "Norsk" (Norwegian), "Polski" (Polish), "Português" (Brazilian Portuguese), "Русский"(Russian), "Slovencina" (Slovakian), "Soumi" (Finish), "Svenska" (Swedish), and "Türkçe" (Turkish).

5   Press "Back".

Note: The languages mentioned above are the default languages, but it is also possible to download an additional language to the handset, see 12.1 *Software Upgrade and Additional Features* on page 72.

8.7.8   Change Owner ID

The Owner ID is set to identify the handset.

1   Enter the menu by pressing "Menu".
2   Select ⚒ in the menu.
3   Select "Owner ID".
4   Enter name/identity. See 3.1.2 *Alphanumeric Keys* on page 12.
5   Press "Save".

8.7.9   Alarm Settings

Activate alarm

Note: This menu is applicable for d81 Protector only.

1   Enter the menu by pressing "Menu".
2   Select ⚒ in the menu.
3   Select "Alarm".
4   Select "Activate alarm".
5   Select "Pull-cord"[12,16], "Man-down"[13], and/or "No-movement"[16].
6   Press "Select" to change the setting. The check box will be marked.
7   Press "Back" to save the setting. To remove the setting, press "Select". The check box will be unmarked.

When an alarm is activated, the corresponding alarm icon is show in the left lower corner of the display, see Table 9.

         Pull-cord alarm

         Man-down alarm

         No-movement alarm

Table 9. Alarms icons

Note: See also *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB* for additional settings and 7 *Alarm Operation* on page 36.

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12. Requires a functionality license.
13. Applicable for d81Protector with the hardware variant Man-Down/No-Movement.

Edit Alarm Data

Information (for example a handset's location) can be sent along with an alarm. It is recommended to create a shortcut for quick access to the "Edit alarm data" menu, see 8.6 *Short Cuts* on page 53.

1   Enter the menu by pressing "Menu".

2   Select ⚒ in the menu.

3   Select "Alarm".

4   Select "Edit alarm data".

5   Enter alarm data.

6   Press "Save".

8.8   Connections

8.8.1   Bluetooth

Enable Bluetooth Connection

1   Enter the menu by pressing "Menu".

2   Select 🔌 in the menu.

3   Select "Bluetooth".

4   Select "Enable". A Bluetooth connection icon ✳ will be displayed in the header bar.

Disable Bluetooth Connection

1   Enter the menu by pressing "Menu".

2   Select 🔌 in the menu.

3   Select "Bluetooth".

4   Select "Disable".

Connect Bluetooth Headset

This can only be done if Bluetooth connection is enabled and if the Bluetooth headset is in pairing mode. See *Enable Bluetooth Connection* and user manual for the Bluetooth headset.

1   Enter the menu by pressing "Menu".

2   Select 🔌 in the menu.

3   Select "Bluetooth".

4   Select Headset.

5   Select "Add new". An information text "Put headset in Pairing mode" is displayed.

6   Press "OK". It will now search for a Bluetooth headset for connection.

7   When headset is found, press "Pair".

8   Enter PIN code, see user manual for the Bluetooth headset.

9   Press "OK". "Successful pairing" will be displayed if the pairing mode was successful.

Connect Bluetooth Barcode Reader

This can only be done if Bluetooth connection is enabled and if the Bluetooth barcode reader is in pairing mode. See *Enable Bluetooth Connection*, user manual for the Bluetooth barcode reader, and 10.7 *Send Data with Bluetooth Barcode Reader* on page 70.

1   Enter the menu by pressing "Menu".

2   Select 🔧 in the menu.

3   Select "Bluetooth".

4   Select "Barcode reader"[14].

5   Select "Add new". A dialog window "Put barcode reader in pairing mode" is displayed.

6   Press "OK". It will now search for a Bluetooth barcode reader for connection.

7   When Bluetooth barcode reader is found, press "Pair".

8   Enter PIN code, see user manual for the Bluetooth barcode reader.

Press "OK". "Successful pairing" will be displayed if the pairing mode was successful.

8.8.2   Headset

In order to achieve optimal audio quality with the different headset types, it is recommended to select the corresponding headset profile.

The default setting is microphone on a boom, that is, the audio is optimized for using a headset with microphone on a boom. The headset profile can be changed in the menu by do as follows:

1   Enter the menu by pressing "Menu".

2   Select 🔧 in the menu.

3   Select "Headset".

4   Select the corresponding headset profile from list, that is, "Mic on boom", or "Customized headset profile"[15].

5   Press "Select".

8.8.3   System

Change System

Select "Automatic" or a specific system. If the handset is set to "Automatic", it selects a system according to the priority list, see *Priority* on page 64.

Subscribe System

The handset can subscribe up to eight different systems. To subscribe a new system, the "Park:" (Portable Access Right Key) and "Ac:" (Authentication code) related to the system are needed. Contact the system administrator for more information.

Note: The PARK code may not be needed if there is no alien DECT system within the coverage area.

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14. Requires a functionality license
15. Only visible if the headset profile has been configured in the PDM.

The IPDI code is a unique code which has been assigned to the handset, see also 9.1 *Admin Menu* on page 66.

1   Enter the menu by pressing "Menu".

2   Select [icon] in the menu.

3   Select "System"

4   Select "Subscribe"

5   Press "Next".

6   Enter System name (optional). If no system name is entered, the default name will be used. That is System A, System B etc. depending on which system name that is free.

7   Press "Next".

8   Enter PARK code (max. 31 digits). The PARK code may not be needed if there is no alien DECT system within the coverage area.

9   Enter AC code. The AC code length must be between 4 - 8 digits.

10   Press "Next".

11   An information text "Protection on?" is displayed. Select "Yes" if the new system is to be protected. It is not possible to delete a protected subscription from the System menu[16].

12   Press "OK". A searching mode starts.

Unsubscribe System

1   Enter the menu by pressing "Menu".

2   Select [icon] in the menu.

3   Select "System".

4   Select "Unsubscribe"[19].

5   Select the system to unsubscribe.

6   Press "Yes to unsubscribe the system.

Rename System

It is possible to change the name of the system in the handset.

1   Enter the menu by pressing the "Menu" soft key.

2   Select [icon] in the menu.

3   Select "System".

4   Select "Rename System".

5   Select system to rename.

6   Enter new name.

7   Select "Save".

Priority

The default order of priority is the order of entered subscriptions. This means that the first subscribed system has the highest priority. This list can be edited by the user. It is possible to set the systems in priority by moving them up or down in the list.

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16. It is not possible to unsubscribe a protected system via the System menu. The unsubscribtion must be made via the Admin menu or the DECT system.

Note: This is used in combination with system set to be "Automatic", see *Change System* on page 62.

1   Enter the menu by pressing "Menu".

2   Select in the menu.

3   Select "System".

4   Select "Priority".

5   Change the priority if needed by selecting "Up" or "Down". The priority will be saved when "Back" is selected.

8.8.4   In charger

Redirect Calls while Charging

Calls can be redirected to another extension when the handset is placed in a charger. In addition, message absence is also enabled when calls is redirected. See *Messages Absence While Charging* on page 65 for more information. The function is automatically cancelled when the handset is removed from the charger.

Note: The extension where the calls shall be redirected to is configured in the PBX.

1   Enter the menu by pressing "Menu".

2   Select in the menu.

3   Select "In charger".

4   Select "Redirect".

Switch off While Charging

When the handset is placed in the charger it can be switched off while it is charging. When it is removed from the charger it will switch on again.

1   Enter the menu by pressing "Menu".

2   Select in the menu.

3   Select "In charger".

4   Select "Switch off".

Mute Handset While Charging

When the handset is placed in the charger it can be muted while it is charging. When it is removed from the charger it will switch on the sound again.

1   Enter the menu by pressing "Menu".

2   Select in the menu.

3   Select "In charger".

4   Select "Sound off".

Logoff Handset While Charging

Note: This feature is license dependent and applicable in IP-DECT systems only. See also 4.2 *Log a Shared Phone On/Off* on page 18.

When the handset is placed in a charger it can be logged off while it is charging. Call list and message list will be deleted when the handset is logged out. When it is removed from the charger, the user needs to log on again.

1   Enter the menu by pressing "Menu".

2   Select 🔨 in the menu.

3   Select "In charger".

4   Select "Logout".

Messages Absence While Charging

When the handset is placed in a charger, message absence can be enabled while it is charging. See also *Redirect Calls while Charging* on page 64. The function is automatically cancelled when the handset is removed from the charger.

When an application/system sends a message to a handset, it will receive an indication that the handset is absent. If a handset is absent, the application/system determines if the message shall be sent to the handset or not, or redirected to another handset.

Note: If a message is sent from a handset, it will not receive an indication that the recipient is absent.

1   Enter the menu by pressing "Menu".

2   Select 🔨 in the menu.

3   Select "In charger".

4   Select "Message Absence".

Deactivate the Charging Mode

1   Enter the menu by pressing "Menu".

2   Select 🔨 in the menu.

3   Select "In charger".

4   Select "No action".

9 Advanced Functions

9.1 Admin Menu

The handset has a hidden menu for system administrators. See *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB*.

The Admin menu contains:

- Software, hardware and licence information, IPEI/IPDI, and user ID
- DECT information
- DECT location information[17]
- Centralized Management showing online information
- Site Survey Tool for indication of radio signal and base station listing
- Fault logging
- Licence upgrade menu
- System menu with ability to alter protection
- Factory reset option

For quick access to the **D**evice **I**nformation (**DI**) menu in idle mode, press the keys containing *#**DI**# (that is *#34#). For quick access to IPEI/IPDI, press *#06# in idle mode. See the table below.

Information	Code
Software version	*#34#
Hardware version	*#34#
License	*#34#
IPEI/IPDI	*#34# or *#06#
User ID	*#34#

9.2 Clear Lists in Charger

Via PDM/IMS2 it is possible to set a parameter that will clear messaging lists and call lists that has been stored in the handset. When the parameter is activated and the function has been downloaded to the handset, the lists will be deleted when placed in a charger. This can be useful during administration of handsets for new users. See also *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB*.

17.This is a licence dependent feature.

10 Advanced Messaging

10.1 Voice Mail

Note: This feature is only available if configured in the system.

10.1.1 Receive a Voice Mail

When receiving a voice mail, the content of the voice mail notification is displayed automatically on the screen, and is also indicated by "Voice mail message" icon ![icon] in the status bar.

If the content of the notification is displayed, press "Call" to dial the voice mail. If "Close" is selected, it is possible to dial the voice mail by a long press on digit key "1" in idle mode, or from the Inbox menu.

Information is stored in the "Messaging" inbox until all voice mail messages have been listened to. See *10.1.2 Check the Voice Mail inbox*.

10.1.2 Check the Voice Mail inbox

1 Enter the menu by pressing "Menu".
2 Select ![icon] in the menu.
3 Select "Inbox". The voice mail will be displayed first in the inbox list.
4 Select the "Voice Mail" icon ![icon].
5 Press "View".
6 Press "Call", or ![icon].

Only one voice mail at the time will be displayed, even if there are more voice mail messages in the message list.

10.1.3 One Key Voice Mail Access

A long press on digit key "1" in idle mode will call the voice mail. If the extension number is not available, a dialog window "Voice mail number not defined" is displayed.

Some systems require that the mailbox extension number is downloaded to the handset, see *Configuration Manual, Ascom d81 DECT Handset, TD 92674GB.*

10.2 Receive a Message with Request for Answer

In the status bar, a message with request for answer is indicated the same way as an ordinary message, see 8.4 *Messaging* on page 49.

In the message list, the message with request for answer is indicated by the icon ![icon].

10.2.1 Accept/Reject the message

Press the soft key "Accept" or "Reject".

When an acknowledged message has been replied to, the icon ![icon] is shown in the message list. The text "Accepted" or "Rejected", and time and date is also added in the acknowledged message.

> **Note:** The option "Delete" is not available for a message with request for answer. An unacknowledged message can only be deleted from the message list.

10.3 Message Queuing and Message Priority

The default settings is that each message will be displayed without being interrupted by another message, except if the new message is of higher priority. Messages that are not shown yet are placed in a queue and the priority and time of reception determine the position in the queue. There are 9 levels of the priority. 1 is highest priority and 9 is lowest priority.

If several of the messages have the same priority the message that was received first is shown first. The total number of messages in the queue and the message list cannot exceed the total number of characters stored in the handset.

If a new message with a higher priority is received while another message is read, the new message will replace the old message in the display. The old message will be placed in the queue. If a new message with equal or lower priority is received while another message is read, the new message will be placed in the queue. See Figure 10.

It is possible to configure how long a message will be displayed, see *Configuration Manual, Ascom d81 DECT Handset, TD 92674GB..*
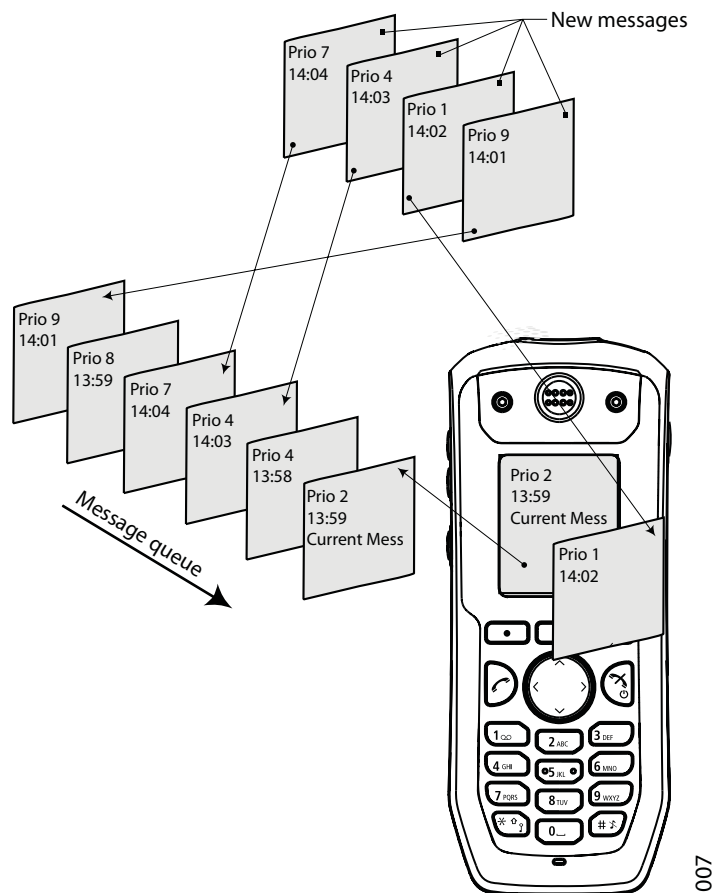

Figure 10. Figure of how the queue and priority works

10.4 Colour Messaging

It is possible to send coloured messages to handsets. The sender of a message (that is, an application) determines the colour of the message. Coloured messaging can be useful for categorizing messages. In Figure 11, there are two coloured messages (a new message, and a read message) in the message inbox (left in the figure). The messages are indicated by a gradient colour bar behind the envelopes. In addition, a gradient colour bar is shown below the envelop when reading a coloured message (right in the figure).
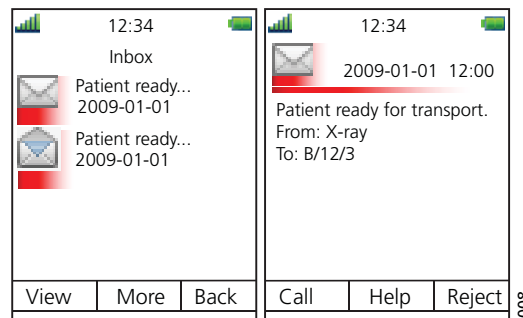

Figure 11. Shows an example of a coloured message.

10.5 Interactive Messaging

Interactive Messaging (IM) is a function that extends basic messaging. It makes it possible for a user of a handset to access information from a client application in the system.

An example can be a customized application that can be accessed from the handset. A list of actions can be included in the message sent from the application to the handset.

An IM is indicated and viewed the same way as an ordinary message, see 8.4 *Messaging* on page 49. It is saved along with other messages in the message list.

When a IM has been read, the IM may display several options.

1   Mark an appropriate option

2   Press "Select".

3   If the selected option requests input, enter the information needed and press "Ok". A press on the middle Soft key will change to digit or text input mode depending on if it is digit or text format in the message.

A read message is indicated the same way as an ordinary message.

Note: If a handset receives an IM update when the original message already has been deleted, the handset automatically sends a negative acknowledge (NAK) to the system, if requested.

A very simple interactive message can look like the one in figure 12 on page 70. The options depends on the configuration in the client application.

```
┌─────────────────────────────────┐
│  Conference this evening!        │
│  Will you be there?              │
│  "Fred Smith" <Fred.Smith        │
│  @company.com                    │
│  ➜ 2010-01-23  12:00pm           │
│ ─────────────────────────────── │
│  Options    Delete    Close      │
└─────────────────────────────────┘

┌─────────────────────────────────┐
│           Options                │
│  ← Reply                         │
│                                  │
│                                  │
│ ─────────────────────────────── │
│  Select              Back        │
└─────────────────────────────────┘
```
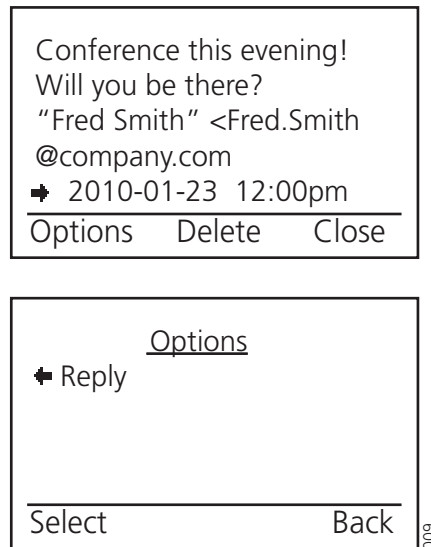
Figure 12. Example of an interactive message

Mobile data from the handset can initiate the application to send the interactive message, see 10.6 *Mobile Data* on page 70. The user can then select one action from the list. The action can be sending a message back to the application and/or dialling a specific number etc.

10.6 Mobile Data

10.6.1 Send Mobile Data

It is possible to send predefined data from the handset by selecting a Service, see 8.5 *Services* on page 53. In addition, a short cut can be created for quick access to a Service, see 8.6 *Short Cuts* on page 53

Mobile data can be used for opening a door, starting/stopping a machine etc.

10.6.2 Send Mobile Data with a Prefix

Mobile data with a prefix is sent from the handset by pressing a pre-programmed Hot key or Soft key or select a Service. Mobile data with prefix can be used to send information to an application in the system.

The prefix is predefined by the user when programming the Service, see 8.5 *Services* on page 53.

10.7 Send Data with Bluetooth Barcode Reader

The handset can be configured to receive data from a Bluetooth barcode reader and then send the data to another destination. When the handset receives data, it is automatically transmitted to the destination and is not stored in the handset. A dialog window "Message sent" is displayed.

For more information about configuration, see *Configuration Manual, Ascom d62 DECT Handset, TD 92639GB*. See also *Connect Bluetooth Barcode Reader* on page 62, and user manual for the Bluetooth barcode reader.

11   Operation Notice

11.1 Accessibility and Voice Quality

The base network is not always available. If you do not get in contact with your system, contact your system administrator. For best voice quality, avoid positioning near computer, radio or similar equipment.

Operating Area

You can only use the handset in the area that is covered by your system. Outside this area you will loose contact with the system. The signal strength icon will be low and "Searching" will be displayed.

Out of Range

When you leave the system's coverage area a short beep will sound and the text "Searching" will appear in the display.

The out of range beep will be repeated every minute for 30 minutes. It is possible to turn the sound off by long pressing, ⌗ , or ▢ .

When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system.

12   System Handling

12.1 Software Upgrade and Additional Features

Software and parameters in the handset can be upgraded by using the PDM, see *Installation and Operational Manual Portable Device Manager (PDM), Windows version*, *TD 92325GB*.

Examples of additional features that can be downloaded/configured via PDM/IMS2:

• Company phonebook
• Downloadable languages
• Customizing the Menu Tree
• Licences[18]

Refer to the *Configuration Manual, Ascom d81 DECT Handset*, *TD 92674GB*.

To view the handset's software version, enter *#34# in idle mode.

18.The licence(s) can also be added via the Admin menu in the handset.

13   Maintenance

13.1 Maintenance of Batteries

13.1.1   Battery Warnings

The "Low battery" icon is displayed when the battery has 10% or less remaining capacity left. In addition; a warning signal sounds every minute, the LED flashing orange, and the dialog window "Battery low. Charge now." appears.

The "Empty battery" icon is flashing when the battery has 5% or less remaining capacity left. In addition; a warning signal sounds every second, the LED flashing red, and the dialog window "Battery empty. Shutting down." appears.

During a call, only the corresponding battery warning signal will notify the user. The warning signal cannot be silenced during a call. When not in call, the warning signal can be silenced by pressing ⌨ or ⬜.

13.1.2   Charge the Battery

Place the handset in the desktop charger or in the rack charger. The battery is being charged when the LED on the handset is steady orange. When the battery is fully charged the LED will be green.

An animated battery icon 🔋 is also shown in the display indicating charging by starting with its current charge and ending with the full charge. A filled battery icon 🔋 indicates a fully charged battery.

Note: Only use the prescribed chargers for charging.

13.1.3   Charge Spare Batteries

Spare batteries can be charged with a separate battery pack charger. It can charge six batteries at the same time.

13.1.4   Replace the Battery

If the standby time for the handset becomes too low, the battery should be replaced by a new one. Please contact your system administrator or your supplier, for information about new batteries. Attach the battery as described in figure 13 on page 74. It is attached inside the battery lid and is connected to the handset in such a way that no miss-contact is possible.

Note: Use the battery pack opener to untight the screws on the ATEX/IEXEC-classified handset.
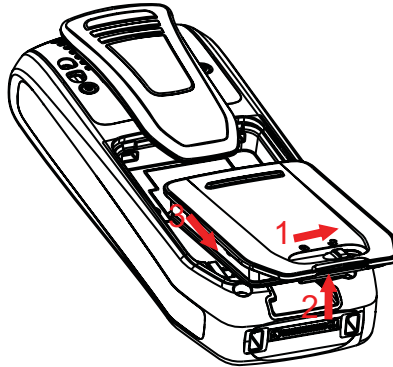
Figure 13. Replaceable battery. Unlock the lid and remove the battery according to the illustration.

13.2 Easy Replacement of Handset

Easy replacement can be used if a handset needs to be replaced due to, for example, a broken display. The easy replacement procedure is done via the handset display and the DC4 Advanced Desktop Charger, or the CR3 Rack Charger.

The following settings are replaced during easy replacement:

- DECT registration
- User parameters (including User ID)
- Contacts
- The extension number is assigned to the new handset.

The following settings are not replaced during the easy replacement:

- Call list
- Messages
- Bluetooth pairing list
- License(s)[19]

13.2.1 Before Starting Easy Replacement Procedure

1   Check that both the old handset (that is, the handset to be replaced) and the new handset (that is, the replacement handset) are of the same device type (d81).

Note: It is possible to perform Easy Replacement between different product licenses (that is d81 Messenger, and d81 Protector). The new handset's product license is not replaced by the old handset's product license during the procedure[15].

2   Make sure that the handset batteries are charged before starting the easy replacement procedure.

3   Switch off the **new** handset by long pressing 📵.

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19. A handset's product license, for example d81 Protector, and/or license dependent functions can be moved to an unlicensed handset (d81 Messenger) using PDM/IMS2.

13.2.2   Easy Replacement Procedure

During the Easy Replacement procedure, the LEDs of the handset and the charger follow the same LED indications. This means that if the old handset has a broken display, the LED indications on the charger and on the handset can be used to follow the replacement procedure. Before and after easy replacement, the LEDs may have different LED indications. For more details, see *LED Indications during Easy Replacement* on page 76.

IMPORTANT: Never remove a handset from the charger until the instructions in the display or the LED tells you to do so (see status on the LED if the display is broken). If there is an error indication it may be allowed to remove the handset, see 14 *Troubleshooting* on page 79 for further instructions.

After the old handset has been in the charger, the new handset needs to be placed in the charger regardless if the replacement was successful or not. Failing to do so may result in malfunction and the new handset will need to be sent for service.
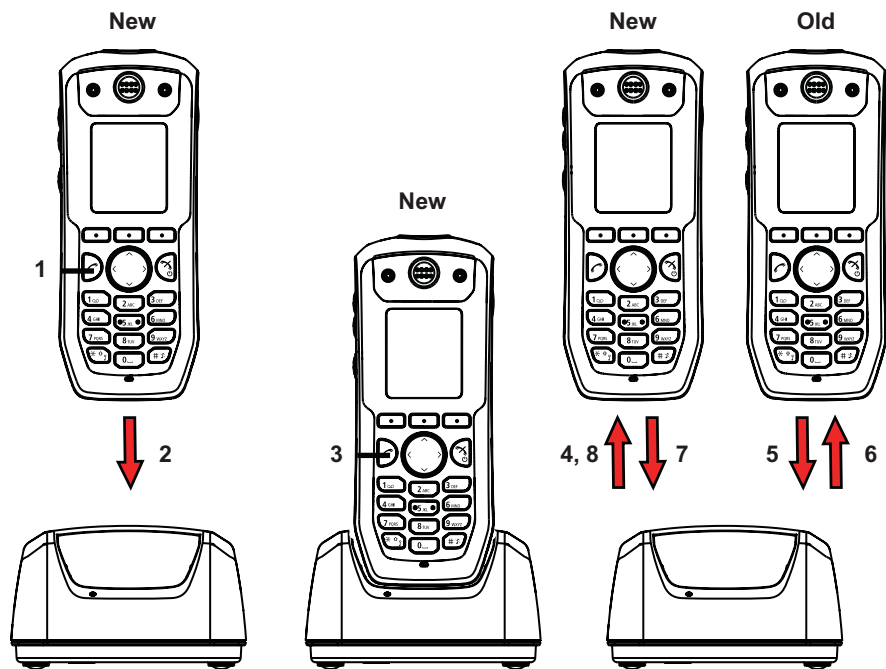
Figure 14. Easy Replacement via DC4 Advanced Desktop Charger

1   On the **new** handset, press and hold $\bigcirc$

Note: Do not release $\bigcirc$ until you are instructed to do so.

2   Put the new handset in the charger.

3   When the text "Start phone replacement?" is displayed, release $\bigcirc$.
Press "Yes" (left soft key).
The text "Follow the instructions. Each step can take several minutes." appears in the display. Press "OK" (left soft key).

4, 5   When the text "Please insert old phone in charger" is displayed, replace the new handset with the **old** handset. The handset can either be switched on or off.

Note: If the CR3 Rack Charger is used, the **left** charging slot must be used for both handsets.

The handset will be restarted and after a few seconds, the text "Saving settings. Do not remove phone from charger" appears. The charger LED changes to slow orange flashing.

IMPORTANT: Do not remove the handset while the text "Saving settings. Do not remove phone from charger" is displayed. It may take several minutes.

6, 7   When the text "Please insert new phone in charger" is displayed, replace the old handset with the **new** handset. The text "Restoring settings" is displayed.

IMPORTANT: Do not remove the handset while the text "Restoring settings" is displayed

8   When the text "Phone successfully replaced. Please remove phone to restart." appears in the display, remove the handset from the charger. The handset is automatically restarted.

LED Indications during Easy Replacement

The following table shows the LED indications that are used for the d81 and the charger during the easy replacement procedure.

| LED indication	Description
Orange, flashing (1 000 ms on, 1 000 ms off)	File transfer during Easy Replacement.
Orange, flashing (100 ms on, 800 ms off)	"Change phone" indication during Easy Replacement.
Red, flashing (100 ms on, 800 ms off)	Error indication during Easy Replacement. Put back old portable in charger.
Red, flashing (900 ms on, 100 ms off)	Error during Easy Replacement. Service needed for *both* portables.

13.3 Attach the Hinge-type Clip

Attach the hinge-type belt clip as described in Figure 15.
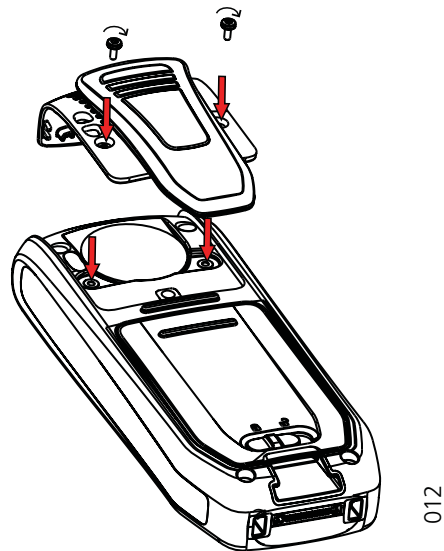
Figure 15. Screw the hinge-type clip into position.
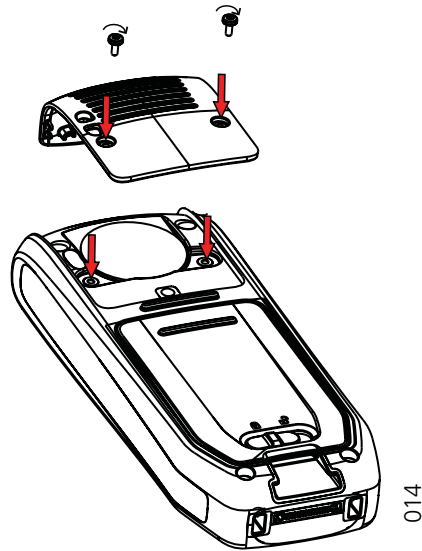
13.4 Attach the Swivel-type Clip

Attach the swivel-type belt clip as described in Figure 16.
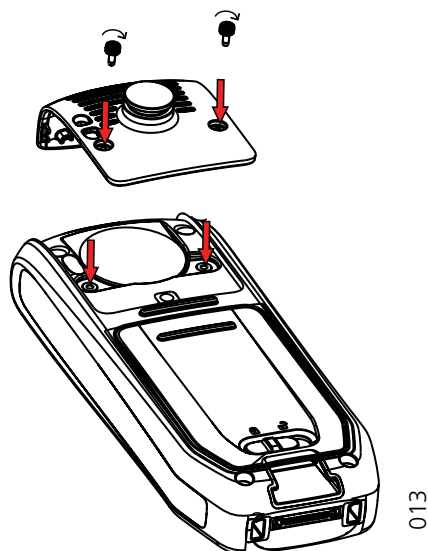
Figure 16. Screw the swivel-type clip into position.

13.5 Attach Cover for No Clip

Attach the enclosed cover as described in Figure 17 when no clip is to be used.

Figure 17. Screw the cover into position.

14 Troubleshooting

This section contains information on how to solve common operational problems, and warnings you may receive.

Go through the following lists if you encounter any problems. If this checklist does not solve the problem, contact your system administrator.

If others have similar problems, there may be a system error.

Operational Problems

Fault	Probable cause	Action or comment
No display	The battery level is low or the handset is defective.	Charge the battery or contact system administrator.
No ringing	The sound off icon is on, or ringer volume set to silent, or the handset is defective.	Long press the Sound off key, or increase volume, or contact system administrator.
No change in time & date setting	PBX dependent.	Changes in the handset appear after a maximum of 24 hours after a change in the system or by turning the handset off and on again.

Error or Warning Messages

Display shows	Probable cause	Action or comment
No access	The network is in range, but no access rights.	Switch handset off and then switch it on again or contact system administrator.
No System. The handset beeps once a minute (during max 30 minutes) with a low tone followed by a high tone (if enabled, the vibrator also follows the beeps).	The handset is out of coverage or handset is defective.	Stop the beep with the Sound off key and go into range. Note: When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system. or contact system administrator.
SERVICE NEEDED Parameters corrupt	The handset is defective.	Select reset option on the middle soft key if available or if no reset option is available or fault does not resolve the handset needs repair. Note: Display message only shown in English.
Enter PIN code	The handset's lock is activated.	Enter the required PIN code. If PIN code lost enter new via PDM or do a factory reset via PDM.
Battery low, charge now	The battery level is low.	Charge or replace the battery.

Phonebook is not available at the moment.	The phonebook does not respond, not available at the moment.	Try again later or if fault persists do a factory reset via admin menu or PDM.
Voice mail number not defined	There is no Voice mail number defined in the handset.	Define a Voice mail number via PDM.
Could not encrypt connection	The parameter "Encryption Required" is enabled in the handset in combination with; 1) Unencrypted base station(s); and/or, 2) Unsupported base station(s).	1) Disable the "Encryption Required" parameter in handset; and/or, 2) Enable the encryption in the base station(s); and/or, **Note:** If Ascom's base station(s) is used, the software version must be 3.1.x or greater. 3) Use supported base station(s). Ask your supplier.
Not allowed	1) The handset with the shared phone functionality enabled cannot be logged in due to another handset using the extension (that is, User). 2) The extension (User) does not exists. 3) The password is not correct.	1) Logout the handset using the extension. 2) Make sure that you entered correct extension. If needed, contact the system administrator. 3) Make sure that you have entered correct password. Ask the system administrator if you have forgot the password.

LED Error Indications

See also chapter *LED Indications during Easy Replacement* on page 76.

LED is flashing red, quick flash, (100 ms on, 800 ms off)

1) If a third handset, that is another handset than the "old" (the replaced handset) and "new" (the replacement heandset) handset, is inserted into the charger during Easy Replacement, this error indication appears. Change to the correct handset.

2) The charger has found that Easy Replacement does not work. Change back to the "new" handset.

LED is flashing red, long flash (800 ms on, 100 ms off)

Error during Easy Replacement. *Both* handsets need to be sent for service.

Appendix A: Bluetooth Headset

A.1   Introduction

Bluetooth technology replaces the cord between the handset and the headset. This allows the user to move more freely and eliminates the risk of a headset cord getting stuck.

Bluetooth is optional to the handset to be able to use a Bluetooth headset. The Bluetooth is factory mounted on the handset's circuit board.

Bluetooth supported functions:

- Pair the handset with it's headset
- Chose which device to use when making a call
- Play ring signal in the Bluetooth headset
- Answer and connect sound to the Bluetooth headset when answering with the headset's button.
- End call with the Bluetooth headset's button
- Transfer audio to/from Bluetooth headset during call, using the menu in the handset.
- Increase/decrease the volume in the Bluetooth headset with the volume buttons on the handset.

A.2   Icon

See 3.1.3 *Icons and Text in the Display* on page 12.

A.3   Wear

For optimal performance wear the Bluetooth headset and the handset on the same side of your body. The best audio quality in the headset is achieved when no obstructions, including your body, are between the headset and the handset.
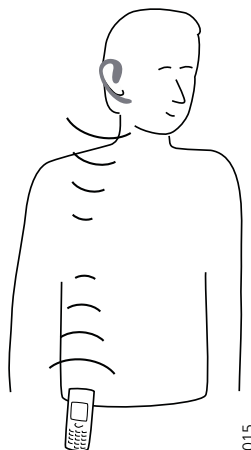

Figure 18. Wear the headset and the handset on the same side of your body.

A.4   Headsets

A number of Bluetooth headsets for different work situations have been tested together with the handset. Refer to the Ascom Wireless Extranet Website for a list of verified Bluetooth headsets.

Since the Bluetooth supports the Bluetooth 2.0 standard, other headsets may also work although not verified by Ascom.

Note: Your Bluetooth headset may have more or less functions than described here, refer to the Manual for the Bluetooth headset.

A.5   Operation
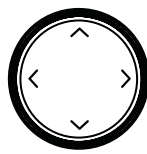
Step between the menus with the navigation key. Confirm each menu selection by pressing the Soft key "Select".

A.5.1   Enable Bluetooth

To enable the Bluetooth function enter 📶 in the handset menu, select "Bluetooth" and select "Enable".

A.5.2   Pair and Connect a Bluetooth Headset

Before a headset can be used, a connection (pairing) between the headset and the handset must be established.

1   Place the Bluetooth headset and the handset next to each other.
2   On the handset enter 📶 in the menu, select "Bluetooth" > "Headset", > "Add new".
3   Put the headset in pairing mode[20] and press "OK". The handset starts to search for the headset.
4   The headset is displayed in the handset menu "Headset found". Press "Select" on the handset to select the headset. The pairing starts.
5   A PIN-code is requested for the Bluetooth headset. Enter the PIN-code[1] and press "Select" on the handset. "Pairing successful" is displayed.
6   The paired headset is displayed in the handset menu "Headset". When pairing a new headset it is automatically connected and will be used for calls.

#### A.5.3   Add another Bluetooth Headset

Up to four headsets can be paired to the handset, but only one at a time can be selected. To pair another headset repeat section "Pair and Connect a headset" steps 1-6.

The paired headsets are displayed by a default name in the handset menu "Headset". See *A.5.6 Change the name of Bluetooth headset*


20.For instruction, see headset manual.

A.5.4   Select a Bluetooth Headset

To activate a Bluetooth headset, enter   in the handset menu, select "Bluetooth" > "Headset". Step with the navigation key, ⌄ and ⌃ to the headset to be selected and press "Select". "Connection successful" is displayed. The headset is now selected.

When a new headset has been selected any previous headset will automatically become disconnected.

A.5.5   Remove a Headset

To remove a Bluetooth Headset enter   in the handset menu, select "Bluetooth" > "Headset". Step with the navigation key, ⌄ and ⌃ to the headset to be removed and press "More". Select "Delete". Confirm with "Select".

A.5.6   Change the name of Bluetooth headset

The name, in the headset list, of the headset is the default name for the headset.

To change the name enter   in the menu, select "Bluetooth" > "Headset". Step with the navigation key, ⌄ and ⌃, to select the headset. Select "More" > "Edit name". See 3.1.2 *Alphanumeric Keys* on page 12.

A.6   Calling

A.6.1   Make a Call

Dial the number on the handset and press "Call", or   . When "Transfer call to phone?" is displayed press "No" or ignore the message to use the Bluetooth Headset. Press "Yes" to use the handset.

A.6.2   Answer a Call

A ring signal sounds in both the selected Bluetooth headset and the handset to signal an incoming call.

To answer the call in the Bluetooth headset, press the button[21] on the headset.

To answer the call in the handset, press   on the handset.

A.6.3   End a Call

To end the call press the button[17] on the headset, or   on the handset.

A.7   Volume/Mute Control

A.7.1   Adjust the Volume During a Call

Depending on the Bluetooth headset it might be possible to adjust the volume on the headset[17]. On the handset, press ⌃ to increase the volume and ⌄ to decrease the volume in the headset.

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21. For instruction, see headset manual.

A.7.2   Turn the Microphone On/Off During a Call

Mute both headset and handset with ⌨ or ☐on the handset.

A.8   Messaging

When a text message is received a beep sounds in the Bluetooth headset.

A.9   Transfer a call

A.9.1   Transfer a Call to the Handset

To transfer a call to the handset from the Bluetooth headset, press "More" on the handset during the call, and select "Audio transfer".

A.9.2   Transfer a Call to the Bluetooth Headset

To transfer the call to the Bluetooth headset, press "More" on the handset during the call, and select "Audio transfer".

It is also possible to transfer a call to the Bluetooth headset by pressing the button[22] on the Bluetooth headset.

A.10   Switch to a Headset with Cord

If a headset with a cord is connected during a call, the call is transferred to this headset automatically.

A.11   Menu Tree

See 8.7 *Settings* on page 55.

A.12   Operation Notice

A.12.1 Accessibility and Voice quality

Bluetooth uses the frequency of 2.45 GHz. WLAN, microwave oven, and other devices that use the same frequency can disturb the use of a Bluetooth headset.

A.12.2 Operation Area

Maximum distance between the headset and the handset is 10 metres. The communication distance between the handset and headset may vary considerably due to the environment and disturbances from other 2.45 GHz equipment. Different headsets can also give different communication distances.

A.12.3 Out of Range

If a connection cannot be made with the selected Bluetooth headset, the call is transferred automatically to the handset.

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22. For intruction, see the headset manual.

If the Bluetooth headset and the handset get out of range from each other, the connection is temporarily lost. Since the last connected headset is always considered "selected", the connection is automatically established again when a call is made or received.

A.13 Environmental Requirements

A.13.1 Bluetooth Headset Battery

See the manual for the Bluetooth headset.

A.14 Trouble Shooting

Problem	Reason	Solution
No headset found	Headset is turned off	Turn on headset
	Headset is out of battery	Charge headset
	Headset is out of range	Move headset closer to handset < 10 metre.
	Headset is not in pairing mode	Turn headset into pairing mode (see headset manual for details)
Pairing fails	Headset is not in pairing mode	Turn headset into pairing/ discoverable mode (see headset manual for details)
	Incorrect PIN entered	Try again and enter correct PIN (see headset manual for details)
Connecting fails/Failed to connect headset	Headset is not turned on	Turn on headset
	Headset is out of range	Move headset closer to handset
	Link key in headset has been deleted	Repeat pairing procedure
	Headset is already connected to another handset	Disconnect headset from the other handset
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Headset can not connect to handset (see headset manual for details on how to connect)	Handset is not turned on	Turn on handset
	Handset is out of range	Move handset closer to headset
	Bluetooth module is disabled	Enable "Bluetooth" in Bluetooth menu
	Another headset is already connected to the handset	Disconnect the connected headset
	Link key is missing in either headset or handset.	Repeat pairing procedure
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.

Appendix B: Bluetooth Barcode Reader

B.1   Introduction

Note: The Bluetooth barcode reader requires that the license dependent Bluetooth Data Profile feature is enabled. See *Configuration Manual, Ascom d81 DECT Handset, 92674GB*.

Bluetooth supported functions:

• Pair the handset with it's Bluetooth barcode reader
• Choose which device to use when scanning barcodes
• Scan barcode(s) and send the information to a handset/system.

B.2   Icon

See 3.1.3 *Icons and Text in the Display* on page 12.

B.3   Bluetooth Barcode Readers

A number of Bluetooth barcode readers for different work situations have been tested together with the handset. Refer to the Ascom Wireless Extranet Website for a list of verified Bluetooth barcode readers.

Since the Bluetooth supports the Bluetooth 2.0 standard, other Bluetooth barcode reader may also work although not verified by Ascom.

Note: Your Bluetooth barcode reader may have more or less functions than described here, refer to the Manual for the Bluetooth barcode reader.

B.4   Operation
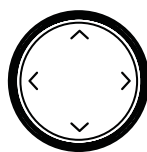
Step between the menus with the navigation key . Confirm each menu selection by pressing the Soft key "Select".

B.4.1   Enable Bluetooth

To enable the Bluetooth function enter 🛠 in the handset menu, select Bluetooth and select "Enable".

B.4.2   Pair and Connect a Bluetooth Barcode Reader

Before a Bluetooth barcode reader can be used, a connection (pairing) between the Bluetooth barcode reader and the handset must be established.

1   Place the Bluetooth barcode reader and the handset next to each other.

2   On the handset enter 🛠 in the menu, select "Bluetooth" > "Barcode reader" > "Add new".

3   Put the Bluetooth barcode reader in pairing mode[23] and press the soft key "OK". The handset starts to search for the Bluetooth barcode reader.

4 The Bluetooth barcode reader is displayed in the handset menu "Barcode reader found". Press the Softkey "Select" on the handset to select the Bluetooth barcode reader. The pairing starts.

5 A PIN-code is requested for the Bluetooth barcode reader. Enter the PIN-code[1] and press "Select" on the handset. "Pairing successful" is displayed.

6 The paired Bluetooth barcode reader is displayed in the handset menu "Barcode reader".

B.4.3 Add another Bluetooth Barcode Readers

Up to four Bluetooth barcode readers can be paired to the handset, but only one at a time can be selected.

Note: Maximum four Bluetooth devices (headset/barcode reader) can be paired simultaneously.

To pair another Bluetooth barcode reader, repeat section B.4.2 *Pair and Connect a Bluetooth Barcode Reader* on page 87.

The paired Bluetooth barcode readers are displayed by a default name in the handset menu "Barcode reader ". See *B.4.6 Change the name of Bluetooth Barcode Reader*.

B.4.4 Select a Bluetooth Barcode Reader

To activate a Bluetooth barcode reader, enter   in the handset menu, select "Bluetooth" > "Barcode reader". Step with the navigation key, ∨ and ∧ to the barcode reader to be selected and press the soft key "Select". "Connection successful" is displayed. The barcode reader is now selected.

When a new barcode reader has been selected, any previous barcode reader will automatically become disconnected.

B.4.5 Remove a Bluetooth Barcode Reader

To remove a Bluetooth barcode reader, enter   in the handset menu, select "Bluetooth" > "Barcode reader". Step with the navigation key, ∨ and ∧ to the barcode reader to be removed and press the soft key "More". Select "Delete". Confirm with the soft key "Yes".

B.4.6 Change the name of Bluetooth Barcode Reader

In the barcode reader list, the name of the barcode reader is the default name for the barcode reader.

To change the name, enter   in the menu, select "Bluetooth" > "Barcode reader". Step with the navigation key, ∨ and ∧, select the barcode reader. Select "More" > "Edit name". See 3.1.2 *Alphanumeric Keys* on page 12.

23.For instruction, see barcode reader manual.

B.5   Barcode Reader Operation

B.5.1   Using the Bluetooth Barcode Reader

The procedure on how to use the Bluetooth barcode reader may vary depending on which type/model that is used. Refer to the manual for the Bluetooth barcode reader. The following instruction can be used as a guideline.

1   Press the button[24] of the barcode reader to scan a barcode. The barcode reader may give a beep to confirm that the barcode has been read and sends the information the handset.

2   When the information is received, the handset sends it immediately to a predefined destination. A dialog window "Message sent" appears in the handset, and the barcode reader gives a beep to confirm that the message has been sent.

Note: Only scan one barcode at the time and wait for the message sent acknowledgement from the handset/barcode reader before scanning a new barcode.

B.6   Menu Tree

See 5.8 *Settings* on page 27.

B.7   Operation Notice

B.7.1   Accessibility and Voice quality

Bluetooth uses the frequency of 2.45 GHz. WLAN, microwave oven, and other devices that use the same frequency can disturb the use of a Bluetooth barcode reader.

B.7.2   Operation Area

Maximum distance between the barcode reader and the handset is 10 metres. The communication distance between the handset and barcode reader may vary considerably due to the environment and disturbances from other 2.45 GHz equipment. Different barcode readers can also give different communication distances.

B.7.3   Out of Range

If the Bluetooth barcode reader and the handset get out of range from each other the connection is lost. The barcode reader must manually be connected again, see B.4.4 *Select a Bluetooth Barcode Reader* on page 88.

B.8   Environmental Requirements

B.8.1   Bluetooth Barcode Reader Battery

See the manual for the Bluetooth barcode reader.

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24. For intruction, see barcode reader manual.

B.9 Troubleshooting

Problem	Reason	Solution
No barcode reader found	Barcode reader is turned off	Turn on barcode reader[1]
	Barcode reader is out of battery	Charge barcode reader[1]
	Barcode reader is out of range	Move barcode reader closer to handset < 10 metre.
	Barcode reader is not in pairing mode	Turn barcode reader into pairing mode[1]
Pairing fails	Barcode reader is not in pairing mode	Turn barcode reader into pairing/ discoverable mode[1]
	Incorrect PIN entered	Try again and enter correct PIN[1]
Connecting fails/Failed to connect barcode reader	Barcode reader is not turned on	Turn on barcode reader[1]
	Barcode reader is out of range	Move barcode reader closer to handset
	Link key in barcode reader has been deleted	Repeat pairing procedure[1]
	Barcode reader is already connected to another handset	Disconnect barcode reader from the other handset
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Barcode reader can not connect to handset (see barcode reader manual for details on how to connect)	Handset is not turned on	Turn on handset
	Bluetooth module is disabled	Enable Bluetooth in Bluetooth menu
	Another barcode reader is already connected to the handset	Disconnect the connected barcode reader
	Link key is missing in either barcode reader or handset.	Repeat pairing procedure[1]
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Other faults/or if the solutions do not work.		1) Switch the handset and barcode reader[1] on/off. 2) Perform a factory reset on the barcode reader[1].

1. Refer to the Manual for the Bluetooth barcode reader

15 Related Documents

Configuration Manual, Ascom d81 DECT Handset	TD 92674GB
Installation and Operation Manual, IMS2	TD 92586GB
Installation and Operation Manual, CR3 Rack Charger	TD 92480GB
Installation and Operation Manual, DC4 Advanced Desktop Charger	TD 92481GB
Installation and Operational Manual Portable Device Manager (PDM), Windows version	TD 92325GB
Quick Reference Guide, Ascom d81 DECT Handset	TD 92667GB

16   Document History

For details in the latest version, see change bars in the document.

Version	Date	Description
A	25 March 2010	First released version
B	26 April 2010	*2.3 Regulatory Compliance Statements (USA and Canada only)* on page 6 added.

Index