

snom



User Manual

IP Phone D375 | snom 370

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Our firmware includes some source code that may be used and modified by anyone and everyone under the GNU Public License (GPL) (see Appendix 7 on page 100), provided they, in turn, make it available to everyone else with the same licensing agreement. Please go to <https://www.snom.com/en/support/download/gpl-open-source/> for the original GPL license and the source code of components licensed under GPL and used in Snom products.

Important information

Please read the instructions on safety and disposal and on how to set up and use the device before using it and also give them to other users to read or inform those users of their contents. Save this manual and do not give the device to third parties without it.

Safety instructions

Follow the instructions in this manual and other applicable documentation of the device.


- If the phone is not supplied with power via an Ethernet cable, use only a power adapter expressly recommended by Snom Technology. Other power supplies may damage or destroy the phone, affect its behavior, or induce noise.
- Avoid placing the cables where people may trip over them or where they may be exposed to mechanical pressure as this may damage them.
- This device is for indoor use only! NOT FOR OUTDOOR USE!
- Do not install the device in rooms with high humidity (for example, in bathrooms, laundry rooms, damp basements). Do not immerse the device in water and do not spill or pour liquids of any kind onto or into the device.
- Do not install the device in surroundings at risk for explosions (paint shops, for example). Do not use the device if you smell gas or other potentially explosive fumes.
- Do not use the device during thunderstorms. Lightning striking the power grid may cause electric shocks.
- **Warning:** The handset contains a magnet, and its earpiece may attract small dangerous objects such as needles or pins. Please ensure before each use that no such objects are present.


SELV (Safety Extra Low Voltage) compliance

Safety status of Input/Output connections comply with SELV requirements.

Warning: To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and PSTN ports contain TNV circuits. Some LAN and PSTN ports both use RJ-45 (8P8C) connectors. Use caution when connecting cables.

Standards conformance

 This device complies with the essential health, safety, and environmental requirements of all relevant European directives.

 This phone is FCC Class B certified and meets US health, safety, and environmental standards.

The declaration of conformity can be requested from

Snom Technology GmbH
Wittestr. 30 G
13509 Berlin, Germany

Unauthorized opening, changing, or modifying the device will cause the warranty to lapse and may also result in the loss of CE conformity and the FCC certification. In case of malfunction contact authorized service personnel, your seller, or snom.

Product specifications

- **Safety:** IEC 60950
- **Certification:** FCC Class B
- **CE Mark**
- **Ethernet:** 2 x IEEE 802.3/1 Gigabit switch
- **Power over Ethernet (PoE):** IEEE 802.3af, Class 2
- **Power:** Power over Ethernet (PoE), IEEE 802.3af, Class 2.. If PoE is not available, the Snom power adapter A6 (not included in delivery), Phihong model number PSM10R-050, can be ordered separately:
 - Snom PN 00004325 (EU clip)
 - Snom PN 00004326 (US clip)
- **Wireless transmission** (D375 only): Compatible with Bluetooth V4.0+EDR, Class 2
- **Connectors:**
 - 2 x RJ45: 1 x LAN, 1 x PC
 - 1 x USB 2.0, type A (D375 only)
 - 1 x proprietary Snom connector for EHS Advanced or Expansion Module V2.0
 - 2 x 4P4C for handset and optional wired headset (headset not included)

Disposal of the device



This device is subject to European Directive 2002/96/EC and may not be disposed of with general household garbage.

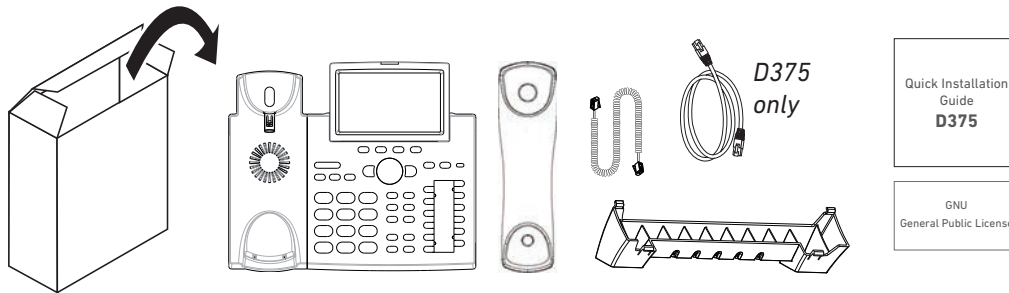
If you do not know where you may dispose of the device at the end of its lifespan, contact your municipality, your local waste management provider, or your seller.

Cleaning

To clean the device, use an anti-static cloth. Please avoid cleaning liquids as they might damage the surface or internal electronics of the device.

Setting up the phone

Delivery Content



- Base phone unit
- Footstand
- Handset
- Handset cord
- D375: Ethernet cable
- D375: Quick Installation Guide, GNU General Public Licence, regulatory info USA/Canada; Snom 370: Quick Start Guide (incl. GPL text)

Attaching and detaching the footstand

The footstand can be attached in two different positions, depending on whether the phone will be placed on a desk or mounted on a wall. To avoid scratching or otherwise damaging the phone, we recommend turning it upside down and placing it on a soft piece of cloth.

Attaching for desktop placement

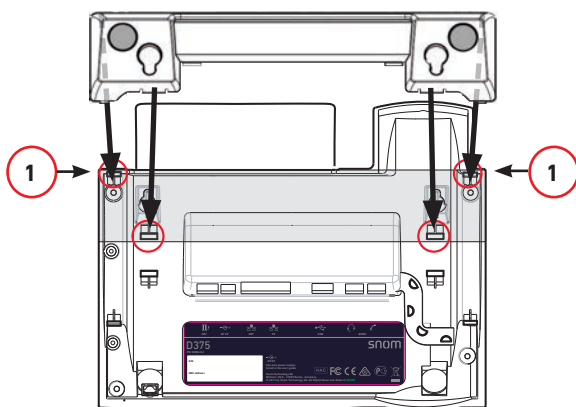


Fig 1

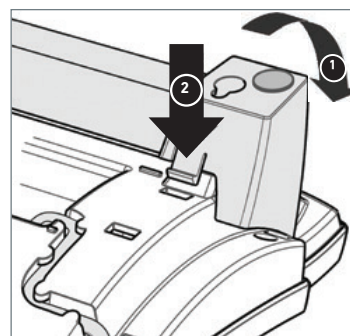


Fig. 2

1. Insert the snap-fits on the longer ends of the footstand into the holes marked ① (Fig. 1).
2. Tilt the footstand towards you and insert the snap-fits on the shorter ends into the holes marked ② (Fig. 2).

- Place the cables (Ethernet, etc.) in the cable slots of the footstand (Fig. 3).

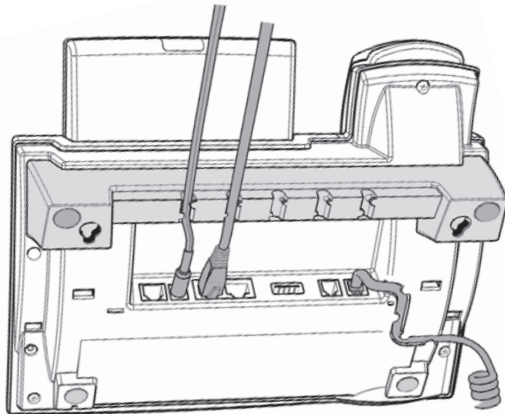


Fig. 3

Attaching for wall mounting

See "Appendix 4 - Wall Mounting" on page 85

Detaching

Lightly press the snap-fits of the footstand inwards (Fig. 1) and, at the same time, tilt the footstand backwards and lift it from its anchorage in the mounting holes (Fig. 2).

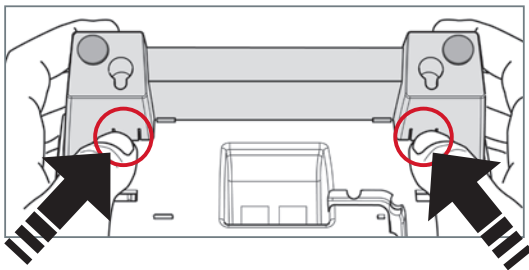


Fig. 1

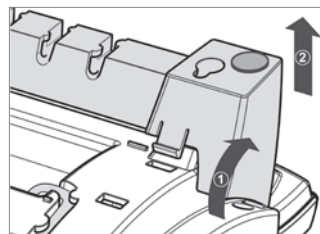


Fig. 2

Rotating the tab of the cradle

The phone is delivered with the tab level with the inner edge of the cradle. If you are going to mount the phone on a wall, we recommend that you rotate the tab 180°. After rotation, the tip of the tab (Fig. 3) will protrude slightly above the edge of the cradle. The small rectangular hole in the receiver casing fits perfectly over the now protruding tip, holding the receiver safely in place in the upright position on the wall.

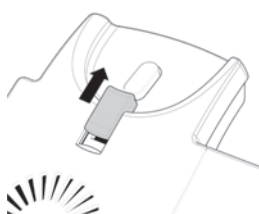


Fig. 1



Fig. 2



Fig. 3

1. Slide the plastic tab from the cradle (Fig. 1)
2. Rotate the tab 180°.
3. Slide the tab back into the cradle (Fig. 2).

The wall mounting instructions are attached at "Appendix 4 - Wall Mounting" on page 85.

Adjusting the display angle

The display is adjustable in 6 steps up to an angle of 45° (Fig. 1 and 2).

- Up: Place your thumb on the lower corner of the display and pull the upper edge of the display upward with your index finger.
- Down: Place your thumb on the upper edge of the display and push it down.

Do not use too much force and do not pull, wrench, or twist the display as this might damage or break the hinges.



Fig. 1

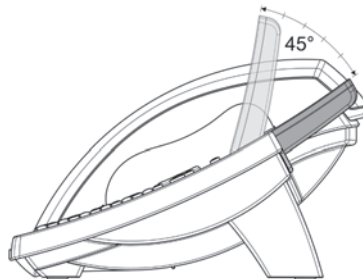
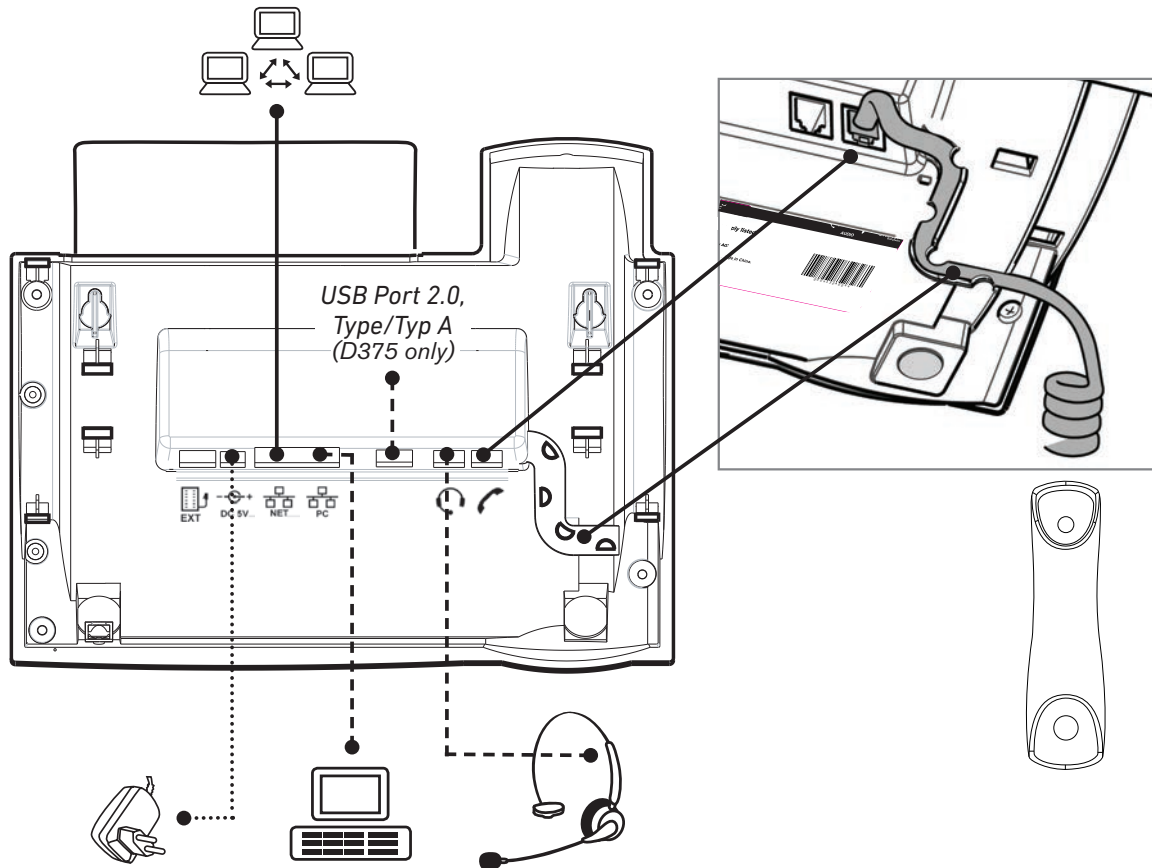


Fig. 2

Connecting the phone

The phone can be operated with Power over Ethernet (PoE) provided via the network cable or, if PoE is not available in your network, with a 5V DC power adapter (see "Product specifications" on page 9).



-● *If PoE not available (not included in delivery)*
Wenn PoE nicht verfügbar (nicht im Lieferumfang enthalten)
S'il n'y a pas de PoE (non inclus dans la boîte)
Si no se dispone de PoE (non incluido)
Se non disponibile PoE (non incluso)
- *Optional*
Optionel
Opzionale
Opcional

- Plug the Ethernet (network) cable into the RJ45 connector labeled "NET", and plug the other end into the network side to establish a data link.
- The second RJ45 connector, labeled "PC", is for daisy-chaining further Ethernet devices without the need for a second Ethernet connection line.
- If PoE is not available, use a 5V DC power supply (not included in delivery).

Note: Use only a power supply expressly recommended by snom; other power supplies may damage or destroy the phone, affect its behavior, or induce noise.

Insert the plug of the power supply into the connector labeled **5V DC** and hook up the plug to the wall outlet.

Connecting a headset

You can use wired as well as wireless headsets with the phone.

- Wired headsets

If you want to use a wired headset, connect it to the RJ audio jack labeled "📞".

Note: If both a wired and a wireless headset are connected to the phone, incoming calls will go to the wireless headset.

- Wireless headsets

- D375 only: Connecting the headset to the phone via Bluetooth. See "Appendix 6 - Wireless Module (D375 only)" on page 94.
- Connecting the base station of your headset via the Snom EHS Adapter. Same as for the snom 370. See Quick Start Guide Snom EHS Advanced, Connecting snom 3xx/snom 820 + snom EHS Advanced.

Please refer to the manual of your wireless headset for further information on how to connect the Snom EHS Advanced and the headset.

- D375 only: Connecting the headset to the phone via a Bluetooth-compatible adapter.

Insert the adapter into the USB port of the phone. See also the Quick Start Guides of the Snom USB BT and the Snom HS BT or the manual of the third-party headset.

Attention: Starting with firmware version 8.7.2.11, the Snom HS BT's parameter will be the default setting for USB headsets.

- If your phone is running an earlier firmware version, enter the parameters of the Snom HS BT manually on the phone's web interface at > Advanced > Audio > text field of "Audio parameters". Click on the question mark (🔍) to look up the parameters.
- If you are using a different headset, whatever the firmware version, enter the parameters of the headset manually on the phone's web interface at > Advanced > Audio > text field of "Audio parameters". Click on the question mark (🔍) to find out which parameters you need to use for your respective headset.

Initializing and registering the phone

Prerequisites

To be able to use VoIP, you or your company must have:

- A broadband internet connection.
- Access to the internet via a router. This could be a separate device available in various versions from many different manufacturers or in the form of a router on a server or a PC.
- Account information provided by your network administrator or a VoIP account with a VoIP service provider who supports the VoIP SIP standard. The phone supports up to 12 VoIP accounts with one or more VoIP providers.

The registration information received from your Internet service provider or your network administrator may differ and may contain required and optional data. The required data normally includes:

- Account (usually the phone number). On Snom phones, an account is called an "identity".
- Registrar
- Password


User name, authentication name, outbound proxy may also be required. These are settings that can only be configured on the web interface of the phone after it has been successfully registered. If your provider or your network provides a mailbox account, that setting is also configured on the web interface. For more information, see "Identities/accounts" on page 64.



Initialization

Snom phones are plug-and-play. Once the phone is connected to your network, it will begin to initialize.


Note: Normally the initialization is completely automatic, using DHCP. If the phone cannot discover a DHCP server in the subnet, you will be asked: Are you using DHCP? If your network does not support DHCP, press **X** and enter the IP address, netmask, IP gateway, and DNS server manually. Ask your Internet service provider or your network administrator for them.

Watch the display and, when asked to, make selections with **▲▼** and save with **✓**.




1. You will be prompted in English to select a language. Use **▲▼** to select another language, if applicable, and press **✓** to save the highlighted language.
2. Next, you will be prompted in the language of your choice to select a time zone. This affects the time shown on your display.
 - Press the function key underneath  to move to the beginning of the next time zone.
 - Press **▲▼** to move up or down the list one item at a time.

- Press the function key underneath  to show only those time zones where the selected phone language is spoken.
 - Press the function key underneath  to show all time zones.
 - Press ✓ to save the highlighted time zone.
3. Next, you will be prompted to select the tone scheme of a country. This affects the dial tone you hear when you pick up the receiver. Different countries use different dial tones.
 - Press ▲▼ to move up or down the list one item at a time.
 - Press ✓ to save the highlighted country's tone scheme.
 4. The display shows the "Welcome" screen. Press any key to log on.
 5. Enter the account number. Save with ✓.

Note: See "Entering numerals, letters, special characters, and symbols" on page 23 on how to enter numbers and letters.
 6. Enter the registrar. Press ✓.
 7. Enter the password received from your Internet service provider or administrator and press ✓.

After successful registration you will see the green handset symbol  and the registered account (identity) in the identity line underneath the date/time bar:



Note: If you see the account on the display preceded by one of the symbols  /  /  and the phone does not work, the server may be down, either for servicing or due to a malfunction. The registration and initialization should be completed as soon as the server is up and running again. You may want to check with your administrator or your provider if nothing happens within a reasonable amount of time.

What to do if initialization and registration are unsuccessful

Your network or your VoIP provider may require more login data than requested by the Snom phone during the initialization and registration process. This data is entered on the web interface of the phone. Contact your network system administrator or your VoIP provider for more information.

1. When you have received all necessary data, open the phone's web interface. See "Opening the web interface" on page 32 for more information.
2. Open Configuration Identity 1 and enter any additional login information you have received from your provider. See "Identities/accounts" on page 64 for more information.

Note: A number of IP telephony service providers and a number of SIP PBXs require settings that are different from snom's standard factory settings. snom's web page lists numerous providers and PBXs that have been tested for interoperability with our phones and specific settings that may be required. Do not change the standard configuration unless you know what you are doing. Expert help may be required.

Correcting the clock

The phone receives the time and date from your NTP time server. If the time and/or date on the display are incorrect, you may need to set the correct time zone.

- Changing the settings on the phone and on the web interface: See "Time zone" on page 68.

If the time is still incorrect, there may be a problem with the time server. Contact your network administrator or your IP provider.

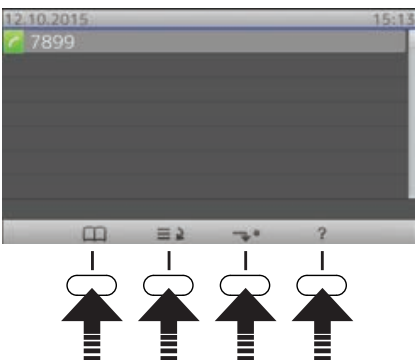
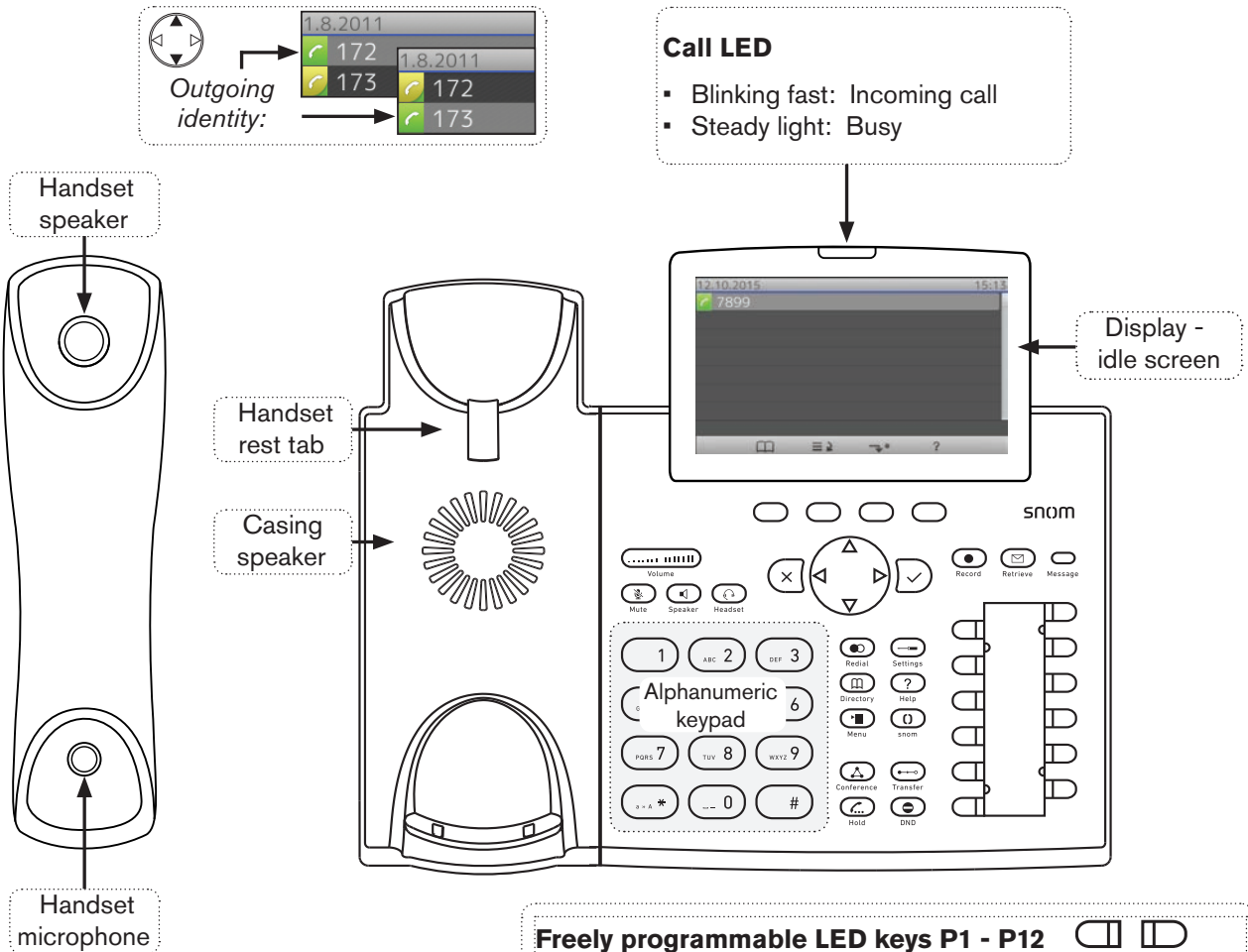
Default formats:

- **Time.** 24-hour clock, e.g. 17:35. Changing to AM and PM formats: See "Date and time formats" on page 67.
- **Date.** US date format MM/DD/YEAR, eg. 11/23/2010. Changing to European format DD.MM.YEAR, e.g. 23.11.2010: See "Date and time formats" on page 67.

Getting to know your phone

At a glance

The factory settings at a glance:



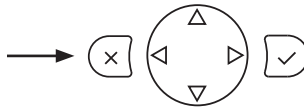
Context-sensitive, programmable function symbols and function keys

- Internal phone directory
- Call lists (missed, received, dialed calls)
- Forwarding all calls (on/off)
- Status information (call forwarding active, passwords not set, missed calls, etc.) or if no status info

Press the function key to activate the function, open the list etc. depicted by the symbol above the key.

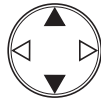
Navigation keys

- Canceling actions & input, and returning to previous screen
- Terminating calls on speakerphone and in headset & handset modes
- Turning off call LED after missed call



- Confirming, saving actions & input, and returning to previous screen
- Accepting calls on speakerphone and in headset mode
- **From idle screen: Dialed calls (redial)**

- From idle screen: Selecting identity for outgoing calls
- In other contexts: Navigate up/down (settings, lists)



- From idle screen ◀: Missed calls
- In other contexts ◀: Navigate/space left



- From idle screen ▶: Received calls
- In other contexts ▶: Navigate/space right

Audio control keys



Adjusting the volume

- of the ringer when the phone is idle or ringing
- of the handset/casing loudspeaker when in a call



Muting and unmuting the microphone



Toggling between handsfree and handset mode. Press to dial number and accept calls on speakerphone.



Headset mode on/off

Dedicated, customizable function keys:

- ◉ Record (when supported by PBX. NOTE: In many countries, there are legal restrictions on recording calls.)
- ✉ ◯ MWI key and MWI LED
 - LED is lit when message is waiting on mailbox (if mailbox supplied on PBX)
 - Press key to listen to message(s)
- ☎ Redial
- 📖 Directory
- ⚙ Settings menu
- 📞 Conference
- ⏸ Hold call
- ⚙ Settings menu
- 📞 Help info (IP address phone, snom wiki)
- 📞 "Snom key" (freely programmable)
- ☎ Transfer call
- 🚫 Turn DND (do not disturb) on/off

Star key

- In editing mode:
 - Press for one second to change input mode (numerals > lower case > upper case)
 - Press briefly to type *
- On idle screen: Press for 3 seconds to **lock/unlock the keypad**

Pound (hash) key

- In editing mode:
 - Press briefly to type #

LED indicators

Call indicator

The bright-red LED situated at the top of the display indicates incoming, ongoing, held, and missed calls. It will be:

- Blinking rapidly when a call is coming in
- Glowing steadily when dialling and when in a call
- Blinking slowly when you have put a call on hold

Function key LEDs

Depending on the function mapped onto the key, the red or green LEDs on the key will be activated when the key event occurs. The factory setting is red LED and "line". The LEDs of a line key will:

- blink rapidly when a call is ringing on the line;
- glow steadily when there is an ongoing call on the line;
- blink slowly when a call is on hold on the line;
- be off when the line is free.

When other functions are mapped onto the keys, the LEDs may glow or blink. For example: When the "extension" function has been mapped onto a key to monitor an extension, the LED will

- blink rapidly when a call is ringing on the extension;
- glow steadily when the extension is busy;
- be off when the extension is not busy.

Message LED

Glowing red when there is a new message on the mailbox.

Hard keys

Freely programmable function keys with LEDs

These are freely programmable function keys that can be programmed on the Function Keys page of the phone's web interface, keys P1 - P16. For information on how to map functions onto these keys, see "Configuring the function keys" on page 58. The factory default setting is "line".

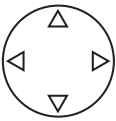






Context-sensitive, programmable function keys

These function keys can be programmed on the "Function Keys" page of the phone's web interface with a number of key events; these functions will then be available when the phone is in idle mode. For more information, see "Configuring the function keys" on page 58. For the factory default settings, see "At a glance" on page 18.

You cannot change the functions that are available when the phone is active, for example when you are in a call, when the phone is ringing, etc. Depending on the activity, different functions will be available.












Navigation, confirmation, and cancel keys

can be programmed with the key events available in their drop-down menus. See "Configuring the function keys" on page 58 for further information. Factory settings:

	Navigation key	
	 	<ul style="list-style-type: none"> On idle screen: Press to select identity for outgoing calls In other contexts: Moving up and down lists one item/button at a time
		<ul style="list-style-type: none"> In text fields, press to move the cursor to the left one character at a time. On idle screen, press to open list of missed calls.
		<ul style="list-style-type: none"> In text fields, press to move the cursor to the right one character at a time. On idle screen, press to open the list of received calls
		<ul style="list-style-type: none"> Press to accept calls on speakerphone and in headset mode. Press to confirm actions/settings and return to preceding screen. Idle screen: Redial.
		<ul style="list-style-type: none"> Press to terminate calls on speakerphone and in headset and handset modes. Press to cancel actions and return to preceding screen. Idle screen: Press to turn off LED indicating missed call(s).





Preprogrammed, variably programmable function keys

The factory settings for these keys are printed on the phone's casing. Other functionalities can be programmed onto them. See "Configuring the function keys" on page 58 for more information.

	Message key. The associated LED to the right of the key is lit when a new message is waiting on the mailbox. Press the key to retrieve messages.
	Redial number dialed last
	Settings. See "Settings" on page 27 for further information.
	Phone directory. See "Directories" on page 36 for further information.
	Help. Press key to show IP address of phone and URL to Snom Wiki.
	Settings menu. See "Settings" on page 27 for further information.
	Freely programmable key
	Conference. See "Conference" on page 51 for further information.
	Transfer key. See "Transferring calls" on page 53 for further information.
	Hold key. See "Hold" on page 50 for further information.
	<p>Turn "do not disturb" (DND) mode on and off for all identities registered on the phone. If you want to turn on DND for one or more, but not all of the identities, use the identity settings on the phone's web user interface. In DND mode incoming calls do not ring; callers hear the busy signal.</p> <p>Exception: Phone numbers on your directory's VIP list (see "Contact Types" on page 37).</p> <p>When DND is on, you'll see the DND symbol on the display.</p>

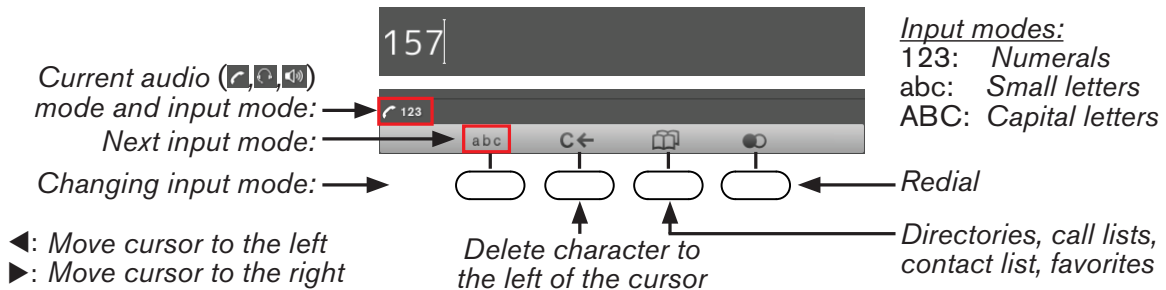


Audio Control Keys

	<p>Press the right or left edge of the key to adjust the volume</p> <ul style="list-style-type: none"> of the ringer when the phone is idle or ringing of microphone/loudspeaker when in call
	Muting and unmuting the microphone
	<ul style="list-style-type: none"> Toggling between handsfree and handset mode Dialing numbers on speakerphone Accepting calls on speakerphone
	<p>Toggling between headset and handset modes.</p> <p>Note: Handset mode overrides headset mode. When the handset is picked up, the headset symbol in the status line will be replaced by the handset symbol, indicating that you can now use only the handset for the call. The phone will return to headset mode when the handset is placed in the cradle, and the headset symbol will reappear in the status line.</p>

Alphanumeric Keypad

Input modes and navigation



Press any key on the alphanumeric keypad or pick up the handset to open the "Enter Number" screen. The current input mode is indicated in the information line. Press the left function key underneath the display to switch to the input mode indicated by the symbol directly above it in the function key line.

Text in Information Line = current input mode	Press function key to switch to input mode indicated by symbol in Function Key Line
123	abc
abc	ABC
ABC	123

Entering numerals, letters, special characters, and symbols

When entering letters and special characters, pause briefly after each character until the cursor has moved forward so that you won't write over the last character you entered. Pausing is not necessary when entering numerals.

Numerals. In numeral mode, press the respective number key to type the number printed on the key.

Letters. When in input modes small and capital letters, press the alphanumeric key with the respective letter one, two, three, or four times quickly to type the first, second, third, or fourth letter printed on the key. Pause briefly after each letter.

Example: In small letter mode, press the "2" key once to type an "a", twice to type a "b", and three times to type a "c".

Letters with accents and umlauts. When in input modes small and capital letters, press the alphanumeric key with the basic form of the respective letter as many times as necessary. Pause briefly after each letter. Available letters with accents and umlauts depend on the phone's language setting.

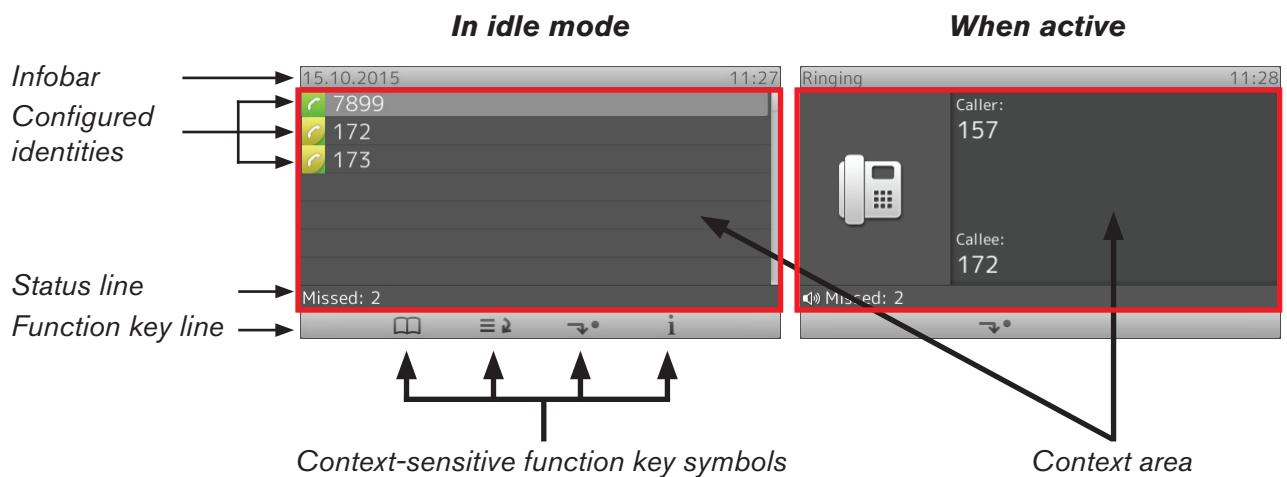
Example: If the phone language is German, press key "2" four times to type "ä".

Entering special characters and symbols. In input modes small and capital letters, press keys "0" and "1" one or more times quickly. Pause briefly after each character or symbol.

- Period. Press "1" once.
- Space ("_"). Press "0" once.
- Underscore ("_"). Press "0" twice.
- Special characters listed in the table. Press "1" as many times as indicated.

1x	.	2x	+	3x	@	4x	1	5x	:	6x	,		
7x	?	8x	!	9x	-	10x	_	11x	/	12x	\	13x	(
14x)	15x	;	16x	&	17x	%	18x	*	19x	#		
20x	<	21x	=	22x	>	23x	\$	24x	[25x]		

Display layout





Idle Mode

In idle mode, the display presents the following information:

Info bar: Date and time.

Context area: Configured identities.

	<p>Outgoing identity</p> <ul style="list-style-type: none"> • The current outgoing identity is indicated by the lighter line and the green box with the handset symbol:  172. When you call someone, this is your identity for the call. • Select a different identity for the next call by pressing ▲▼ on the navigation key.
---	--

	<p>Active identity</p> <ul style="list-style-type: none"> • Can be called • Can be selected as the outgoing identity for making calls by pressing ▲ ▼ on the navigation key.
	Identity not properly registered.
	Identity trying to register.

Identities can be unregistered without removing the registration settings by changing their status to "inactive" on the phone's web interface. Inactive identities are not displayed on the idle screen. They cannot be called or selected as the outgoing identity. To reregister the identity, open the phone's web interface > Configuration Identity (1-12).

1. Change the "Identity active" setting to "on".
2. Click on "Re-Register".
3. Click on "Save".

For information on configuring new identities or modifying existing ones, see "Identities/accounts" on page 64.





Status line

Any of numerous messages concerning the current status of the phone might be displayed in this bar, for example the availability of a firmware update, a reboot being required, etc. If there is more than one current status message at any one time, the one with the highest priority will be shown. For a comprehensive list in descending order of priority, see Appendix 1.

Some of the status messages you may see in idle mode are:







- The text "Missed:" and the total number of missed calls.
- The text "Forward All:"/"Forward when busy:"/"Forward after timeout:" and the phone number calls will be forwarded to.
- The warnings "HTTP Password not set" and "HTTP Password not set". They can be turned off by either setting the passwords or turning them off manually.

Deleting status messages:

- Messages will be deleted automatically when the underlying cause is removed, i.e., call forwarding is turned off, HTTP password is set, etc.
- Manually: Press , if the button is available, or  > 6 Information > 1 Status info to open the "Status info" screen. Use ▲ / ▼ to select an item from the list. Press  to view details of selected item, if available; press  to delete selected item.

Function key line

The symbols on the buttons in this line depict the functions that can be activated by pressing the function key underneath the respective symbol. See for a complete list. The factory defaults are:

	Directory. See "Directories" on page 36.	
	Call lists (missed, received, and dialed calls). See "Call lists" on page 54.	
		Forwarding all calls (on/off). See "Call forwarding" on page 56 and 70.
	Phone's IP address and URL of snom's web page	
	<p>Displaying all currently available status messages. This key is available whenever a status message becomes newly available even when a different function is mapped onto the far-right context-sensitive function key underneath the display.</p> <p>Press the key to display the status messages; press DEL to delete the highlighted status message. When all messages have been deleted, the symbol will disappear from the function key line; the message in the status line will also disappear.</p> <p>If you have mapped (programmed) a different function onto the key, that function is now available on this key again. If you have mapped the "Status messages" function onto the key, the key will remain blank until a new status message becomes available or until a reboot when all current status messages will be displayed anew.</p>	

When the phone is active

The display will inform you of any activity the phone is engaged in. This information is presented in the form of text or symbols or both.

Info bar: Name of current activity and time.

Context area: Depending on the activity, this area will contain symbols (incoming call ringing, outgoing call ringing, etc.) and text like the phone number calling, the extension number being called, conference partners, etc.

Status line

In editing modes (i.e., when dialing or editing directory entries), the current editing mode (i.e., numerals, small letters, or capital letters) is shown preceding the status message, if any (see):


Function key line

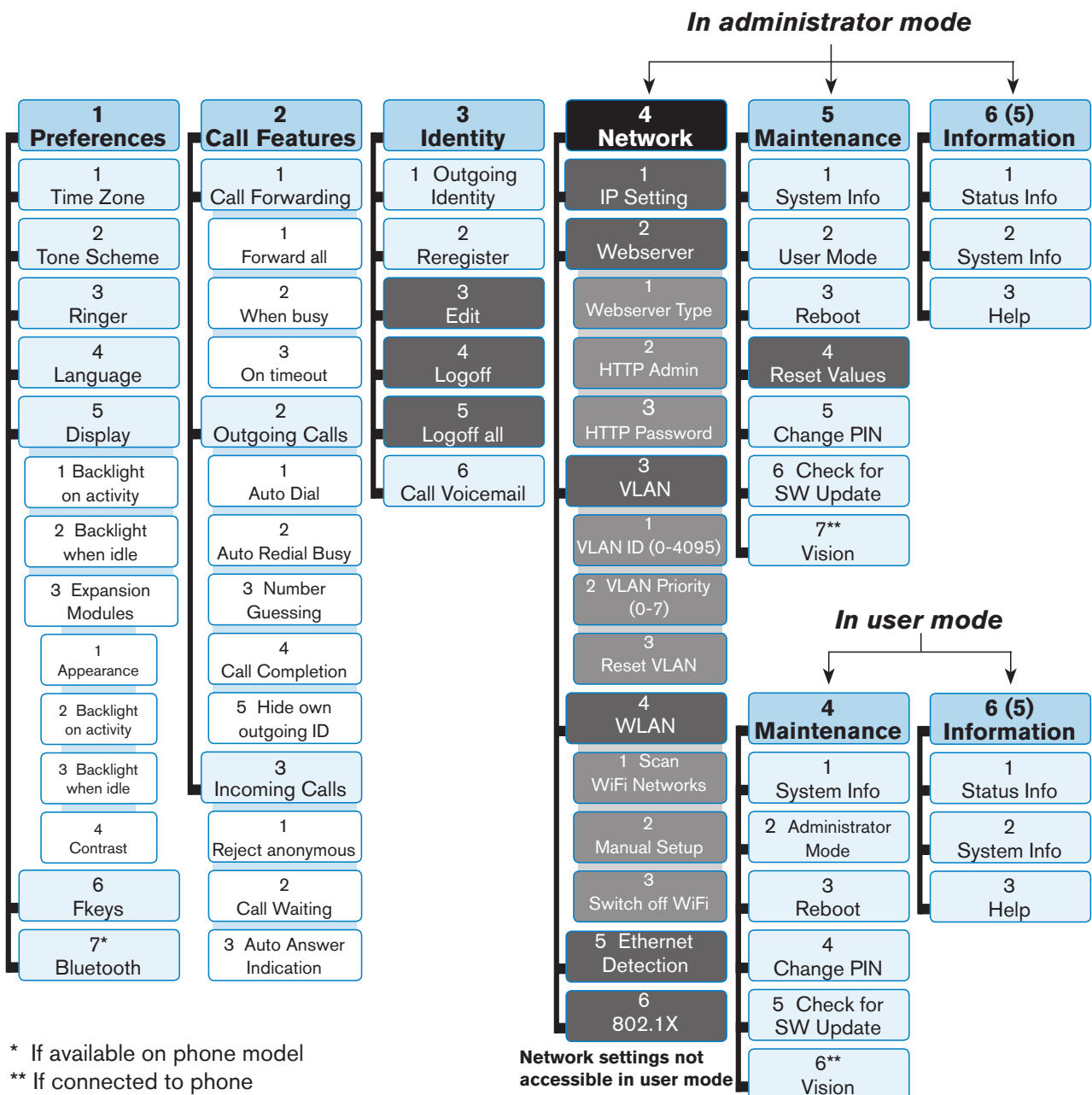
Depending on the current activity of the phone, the key function key line will present various functions that can be activated by pressing the function key underneath the respective symbol. See "Appendix 1 - Display symbols and Icons" on page 79 for a list of available functions.

Settings

A comparatively small number of settings can be adjusted on the phone; many more are available on the phone's web interface.


Phone settings


Press  to open the settings menu on the display. To open submenus and settings, press their number on the alphanumeric keypad.



* If available on phone model
 ** If connected to phone

The submenus and the settings shaded black and gray are not available when the phone is running in user mode. The factory setting is administrator mode. For more information on user/administrator modes, see "User mode/administrator mode" on page 34.

Note: When the phone is in administrator mode and the Maintenance menu is on the display, pressing  will switch the phone to user mode.

When the phone is in user mode and the Maintenance menu is on the display, press  to switch the phone to administrator mode. You will be asked for the administrator password. The default administrator password is 0000 (4 x zero).





Most of the individual settings are described elsewhere in this manual: See "Using the phone" on page 44 and "Customizing the phone settings" on page 64.

Adjusting the backlight

The backlight on the display of the phone and any connected expansion modules can be adjusted separately for the times when the phone is active and when the phone is idle. Lowering backlight intensity lowers the energy consumption of the devices.

The backlight when idle can be turned off by reducing the number of vertical bars to one. The phone will switch the backlight to idle mode after the period of inactivity in seconds specified on the phone's web user interface.

Adjusting the backlight on the phone's display

- Intensity
 1. Press .
 2. Press 1 Preferences.
 3. Press 5 Display.
 4. Press 1 Backlight on activity or 2 Backlight when idle.
 5. Press right or left arrow on the navigation key to increase  or decrease  the backlight's intensity.
 6. When done, press  to save and return to Display menu (Fig. 1).

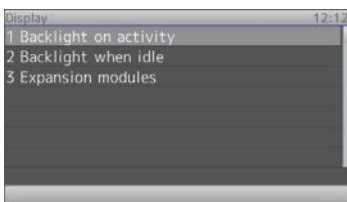


Fig. 1

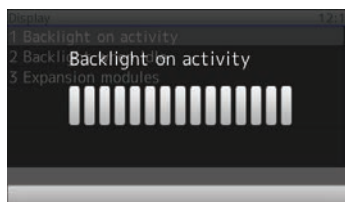


Fig. 2

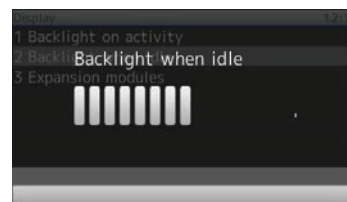




Fig. 3

- Setting the number of seconds after which the phone will switch from activity to idle backlight
 1. Open the phone's web interface (see "Opening the web interface" on page 32).
 2. Click on "Preferences" (see "How the web interface works" on page 33).
 3. Enter the number of seconds in the text field of "Dim after (in seconds)" (in the section "General Information". default is 20 seconds).
 4. Click on "Apply" and "Save".

Adjusting the display settings on connected expansion modules

The intensity of the backlight on the displays can be adjusted separately for the phone and the connected expansion modules, both for the times when the phone is active and when the phone is idle. Lowering backlight intensity lowers the energy consumption of the devices.

Note: The number of seconds after which the expansion modules will switch from activity to idle backlight is the number set for the phone display's backlight (see "Adjusting the backlight on the phone's display" on page 28).

- Adjusting the intensity of the backlight.
 1. Press .
 2. Press 1 Preferences.
 3. Press 5 Display.
 4. Press 3 Expansion Modules.
 5. Press 2 Backlight on activity or 3 Backlight when idle.
 6. Press right or left arrow on the navigation key to increase (▶) or decrease (◀) the backlight's intensity. The setting applies to all expansion modules connected to the phone.
 7. When done, press  to save and return to Expansion modules menu (Fig. 3).

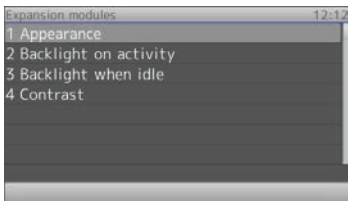


Fig. 3

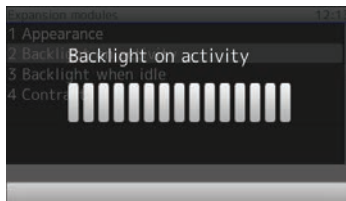


Fig. 4

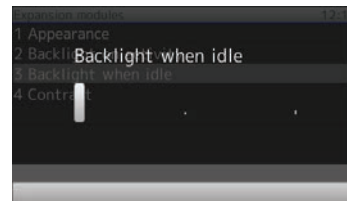



Fig. 5

- Adjusting the appearance of the data on the display (tiles or lines; for more information, see the user manual of the expansion module, chapter Display layout) and the contrast.
 1. Press .
 2. Press 1 Preferences.
 3. Press 5 Display.
 4. Press 3 Expansion Modules.
 5. Press 1 Appearance.

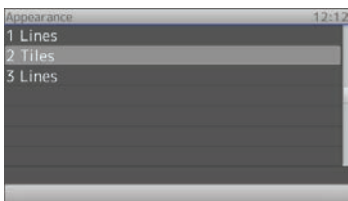



Fig. 6

6. Press 1, 2, and/or 3 to change and simultaneously save the display layout of the first, second, or third connected expansion module, respectively, from lines to tiles and vice versa.
7. Press  to return to the Expansion modules menu (Fig. 3).

8. Press 4 Contrast.
9. Press right or left arrow on the navigation key to increase (▶) or decrease (◀) the backlight's intensity. The setting applies to all expansion modules connected to the phone.

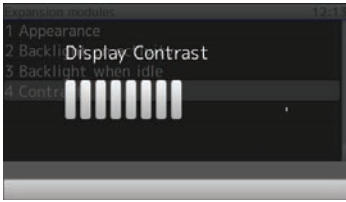



Fig. 7

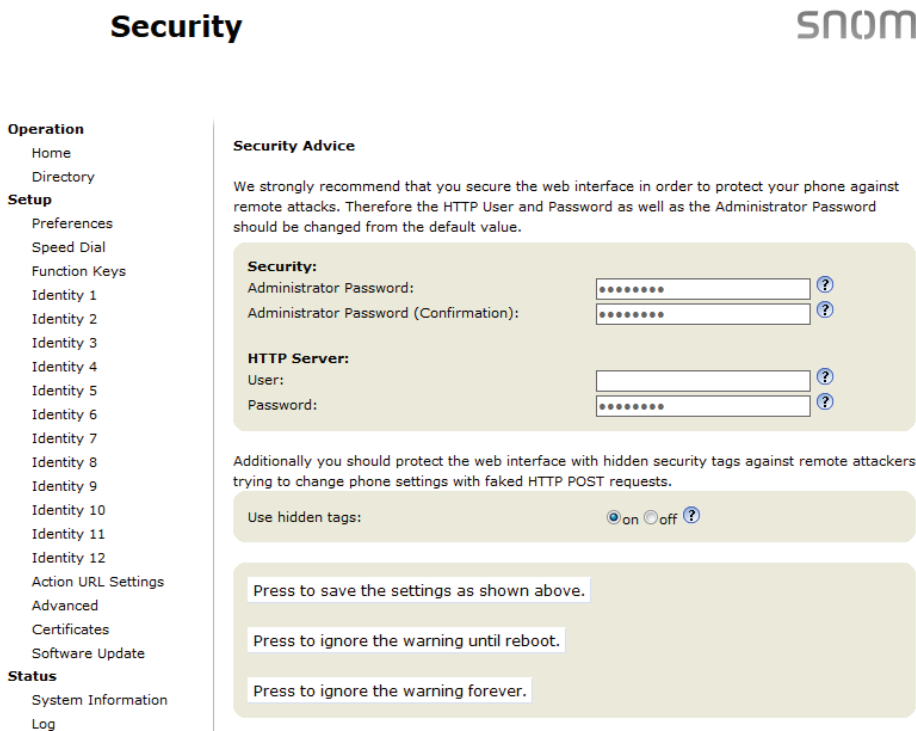
10. When done, press  to save and return to Expansion modules menu (Fig. 3).

The phone's web interface

Opening the web interface: See page 32.

Firmware versions below 8.7.4

When the web interface is opened for the first time upon initialization, you will see the Security page.



We urge you to set administrator and HTTP passwords to protect your phone from remote attacks. The default administrator password is 0000 (4 zeros); there is no default HTTP password. **Please note:**

- If you do not replace the default administrator password by an individual one, an unauthorized third party with access to the phone could set an administrator password unknown to you. In such a case, you would no longer be able to switch from user mode to administrator mode.
- If you do not set an HTTP password, you make it easier for experienced hackers to break into your system.
- If you set your own passwords, be sure to write them down and store them in a secure place.

Without the administrator password, you will not be able to return the phone and the web interface from user mode to administrator mode; many settings will be inaccessible.

Without HTTP password you cannot open the phone's web interface.

If you do not wish to set an HTTP password, you can turn off the reminder on the phone's display until the next reboot or forever by clicking on the respective button. If you change your mind later, you can set the password on the phone's web interface, "Advanced" page > "QoS Security" tab > "HTTP Server" (see) or turn off the warning later at Advanced > QoS Security > Security > Ignore security advices.

Firmware versions 8.7.4 and higher

When you register the first account during the initialization of the phone, your SIP user name and password will be registered as the HTTP user name and password. If you wish to change them later, you can do so on the phone's web interface > Advanced > QoS Security > HTTP Server.


Note:

- If you do not replace the default administrator password by an individual one, an unauthorized third party with access to the phone could set an administrator password unknown to you. In such a case, you would no longer be able to switch from user mode to administrator mode.
- If you set your own passwords, be sure to write them down and store them in a secure place.

Without the administrator password, you will not be able to return the phone and the web interface from user mode to administrator mode; many settings will be inaccessible.

Without HTTP password you cannot open the phone's web interface.

Opening the web interface

1. Look up the phone's IP address:  > 6 Information > 2 System Info.
2. Open a web browser on your PC. Enter the IP address, preceded by "http://" in the address bar (for example: http://192.168.10.115) and press ENTER. The home screen opens:

Welcome to Your Phone!

Operation

- Home
- Directory

Setup

- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update

Status

- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace
- Memory
- Settings

Manual

This web interface makes it easy for you to set your phone up correctly and to access the advanced features.

To dial a number, just enter the number in the field below. You can enter a simple telephone number (e.g. 0114930398330) or URI like info@snom.com.

Dial a Number:

 Dial Hangup

Outgoing Identity:

7899@ .snom.com Set

[Dialed](#), [Missed](#), [Received](#)

Dialed Numbers ✕


Date	Time	Duration	Costs	Local Identity	Number	
19.10.2015	11:33	00:00:32		173	159 159	✕
16.10.2015	15:31	00:00:00		7899	159 159	✕
15.10.2015	12:07	00:00:00		7899	156 Adam Smith	✕
15.10.2015	11:15	00:00:12		7899	157 157	✕
15.10.2015	11:14	00:00:00		7899	7881 7881	✕

Missed Calls ✕

Date	Time	Missed	Local Identity	Number	
19.10.2015	11:38	1	172	157 157	✕
19.10.2015	10:13	1	7899	159 159	✕
15.10.2015	12:24	1	173	157 157	✕
13.10.2015	15:50	1	7899	157 157	✕

Received Calls ✕

Date	Time	Duration	Costs	Local Identity	Number	
15.10.2015	12:25	00:00:00		7899	157 157	✕
15.10.2015	11:29	00:11:56		172	157 157	✕

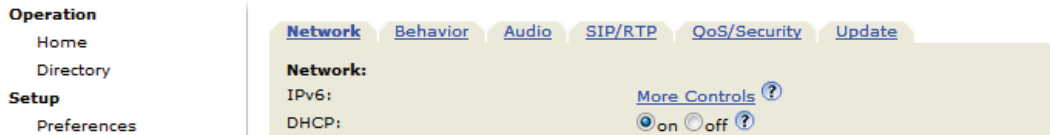


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How the web interface works

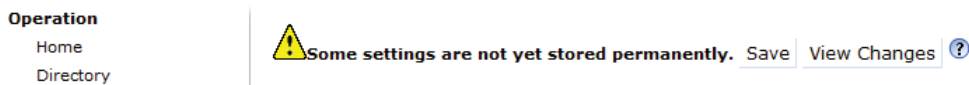
The vertical menu on the left side of the window is always the same, no matter which window happens to be open at the time. Available menu items depend on whether the phone is running in user or administrator mode.

Click on a menu item to open that page. Some pages contain several documents. To make a document visible, click on its tab. The font weight of the characters on the active tab is **bold**. Only one tab can be active at a time.



Note: Any changes you make will not take effect until you click on "Apply". Changes will be lost if you open another page of the web interface or if you close the web interface without first clicking on "Apply".

After you have clicked on "Apply", in some cases the "Save" button will appear at the top of the page. Click on "Save" to save the changes permanently. Changes that have not been saved will be lost if and when the phone loses power or is disconnected from its power source.



On the right of each setting, there is a link symbolized by the question mark. Click on this link to open a wiki page with information on the setting (description, valid and default value, links to connected issues, etc.). Click on the return button of your browser to return to the phone's web interface.

Note: You may have to enter your HTTP password to return to the phone's web interface.

Web settings overriding manual phone settings

In some cases settings activated on the web interface override manual settings on the phone. If a setting you have made on the phone does not appear to take effect, look for a conflicting setting on the web interface.

User mode/administrator mode

Snom phones can be operated in administrator or user mode. In administrator mode, all settings are accessible and can be modified; in user mode, a number of settings are not accessible. The factory default is administrator mode.

When the phone is running in user mode, the administrator password is required to revert to administrator mode. The default administrator password is 0000 (4 x zero). We recommend that you change the password.

Note: Do not forget to write the new password down and store it in a safe place; without it, a TFTP reset to factory values is necessary to return the phone to administrator mode.

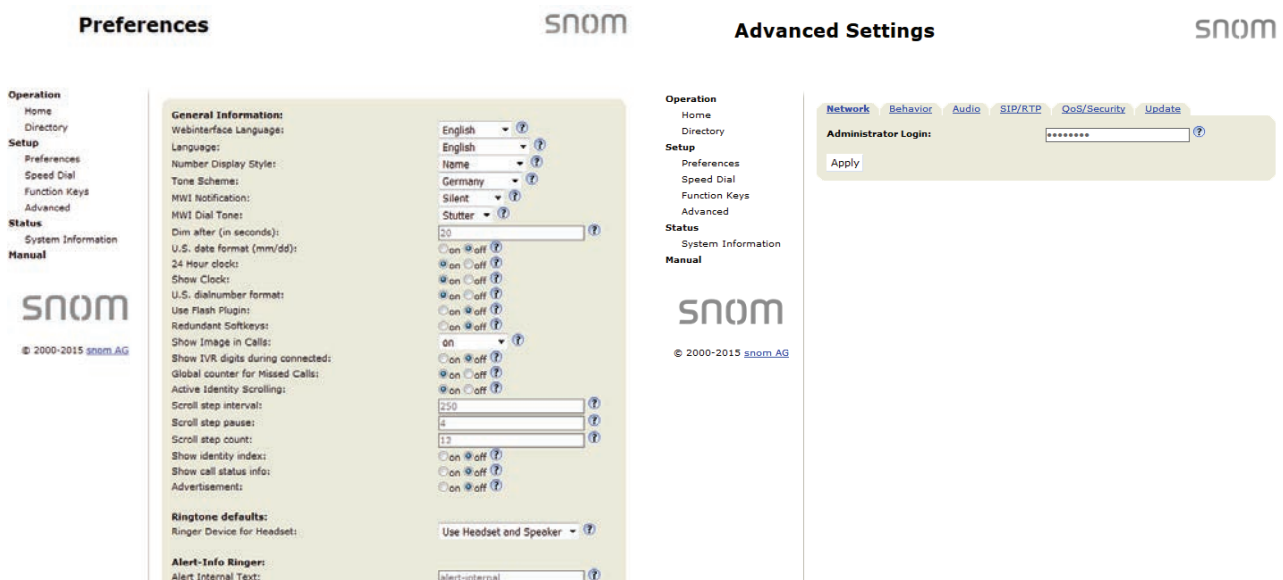
If your phone is administered centrally, user mode may be the rule. Please check with your administrator.

User mode on the phone

The "Identity" and "Network" menus and the setting "Reset Values" in the "Maintenance" menu are inaccessible. See also "Settings" on page 27.

User mode on the web interface

Some windows like "Preferences" are available in user mode while many others, like the identities, are not. The menu item "Advanced" is available but the settings normally found on it are not. In user mode the two pages look like this:



To return the phone and its web interface to administrator mode, open the Advanced Settings page, enter the administrator password in Administrator Login and click on "Apply". The default password is 0000 (4 x zero). The two pages in administrator mode look like this:

Preferences



Advanced Settings



- Operation
- Home
- Directory
- Setup
- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update
- Status
- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace
- Memory
- Settings
- Manual



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General Information:

Webinterface Language: English

Language: English

Name: Germany

MWI Notification: Silent

MWI Dial Tone: Stutter

Dim after (in seconds): 20

U.S. date format (mm/dd): on off

24 Hour clock: on off

Show Clock: on off

U.S. dialnumber format: on off

Use Flash Plugin: on off

Redundant Softkeys: on off

Show Image in Calls: on

Show IVR digits during connected: on off

Global counter for Missed Calls: on off

Active Identity Scrolling: on off

Scroll step interval: 250

Scroll step pause: 4

Scroll step count: 12

Show identity index: on off

Show call status info: on off

Advertisement: on off

Ringtone defaults:

Ringtone Device for Headset: Use Headset and Speaker

Alert-Info Ringer:

Alert Internal Text: alert-internal

Alert Internal Ringer: Ringer 1

Alert External Text: alert-external

Alert External Ringer: Ringer 1

Alert Group Text: alert-group

Alert Group Ringer: Ringer 1

Directory Ringtones:

"Friends": Ringer 1

- Operation
- Home
- Directory
- Setup
- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Identity 5
- Identity 6
- Identity 7
- Identity 8
- Identity 9
- Identity 10
- Identity 11
- Identity 12
- Action URL Settings
- Advanced
- Certificates
- Software Update
- Status
- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace
- Memory
- Settings
- Manual



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- Network
- Behavior
- Audio
- SIP/RTP
- QoS/Security
- Update

Network:

IPv6:

DHCP: on off

Options on DHCP: on

Options on DHCP: off

IP address: 10.110.25.122

Netmask: 255.255.255.0

Host Name:

IP Gateway: 10.110.

Wlan:

AuthMode: off

DNS:

Domain: snom.com

DNS Server 1: 10.110.1.201

DNS Server 2: 10.110.1.202

Time:

NTP Time Server: 10.110.0.1

NTP Refresh Time (sec): 3600

Timezone: 1 Germany (Berlin)

HTTP:

HTTP Proxy:

HTTP port: 80

HTTPS port: 443

Webserver connection type: http or https

Auto Logout (min):

LDAP:

LDAP name filter:

LDAP number filter:

Server Address:

Port:

Base:

Directories

Directory

The directory is the built-in directory of the phone. It can hold 1000 entries. Entries can be added and edited on the phone and on the web interface.

? Directory					
Name:	Number:	Contact Type:	Outgoing Identity:	Edit	Delete
Jane Smith	9175554128	None	Active		
John Miller					
- fixed	9175554230	None	Active		
- private	9175557018	None	Active		
- cell	9175554231	None	Active		

Any changes you make on the web interface will not take effect until you click on "Save" or on "Apply" and "Save", depending on your firmware version. Changes will be lost if you open another page of the web interface without first clicking on "Apply"/"Save".

Definitions, explanations

Directory entries

Each entry must have at least one phone number; multiple associated phone numbers are possible. If you do not enter a first and/or last name and/or nickname, the phone number will appear under both "Name" and "Number".

- Entry with one phone number:

Jane Smith	9175554128	None	Active			
------------	------------	------	--------	--	--	--

- Entry with several associated phone numbers:

John Miller						
- fixed	9175554230	None	Active			
- private	9175557018	VIP	Active			
- cell	9175554231	None	Active			

Number area (N): Individual settings for the master record and each subentry possible.

Blue area. Data can be different for each associated phone number. If subentry textfields are blank, the data from the master record is displayed.

Name area. Same data for the master record and all subentries.

Master record (M)	Subentry 1	Subentry 2
<p>Add or Edit Entry:</p> <p>Number: 4442090</p> <p>Number Type: N sip</p> <p>Contact Type: VIP</p> <p>Outgoing Identity: Active</p> <p>Group: Work</p> <p>Title: Manager</p> <p>Organization: Smith</p> <p>Email: M jd@smithjones.com</p> <p>Note:</p> <p>Photo:</p> <p>Nick Name:</p> <p>First Name: Jane</p> <p>Family Name: M Doe</p> <p>Birthdate: 14.3.</p> <p>Favorite:</p>	<p>Add or Edit Entry:</p> <p>Number: 4442091</p> <p>Number Type: N cell</p> <p>Contact Type: VIP</p> <p>Outgoing Identity: Active</p> <p>Group: Work</p> <p>Title: Manager</p> <p>Organization: Smith</p> <p>Email: M jd@smithjones.com</p> <p>Note:</p> <p>Photo:</p> <p>Nick Name:</p> <p>First Name: Jane</p> <p>Family Name: M Doe</p> <p>Birthdate: 14.3.</p> <p>Favorite:</p>	<p>Add or Edit Entry:</p> <p>Number: 555557815</p> <p>Number Type: N private</p> <p>Contact Type: VIP</p> <p>Outgoing Identity: 555557815@ser.i</p> <p>Group: S Friends</p> <p>Title: M Manager</p> <p>Organization: M Smith</p> <p>Email: S jane.d@madeitup.cc</p> <p>Note:</p> <p>Photo:</p> <p>Nick Name:</p> <p>First Name: Jane</p> <p>Family Name: M Doe</p> <p>Birthdate: 14.3.</p> <p>Favorite:</p>

Blue area of Subentry 2: Different "Group" selection (S), different entry in textfield of "Email" (S). No entry in text fields of "Title" and "Organization", therefore same as Master Record.

Contact Types

VIP: Calls from numbers with this contact type will ring on your phone even when DND mode is active. You can assign a ringtone to this contact type. If your VIP is also assigned to a group (see below) and if that group has a distinct ringtone, the ringtone assigned to the group will be played.

Deny List: Calls from phone numbers with this contact type will not ring on your phone. The caller hears the "Busy" signal.

Outgoing identity

The default setting is "Active" which means that the phone will use the current outgoing identity whenever you dial the number of the phone book entry.

You can also select a specific identity to be used as the outgoing identity whenever the number is dialed, for example, if you want to use a specific VoIP provider for these calls.

Note: To use an outgoing identity specified in the directory, you must dial the number from the directory. If you simply type it on the keypad, the current outgoing identity, as indicated on the display, will be used.

Group

The available group types are Friends, Family, Work, Colleagues. You can assign a distinct ringtone to each group type.

Ringtones

The phone has 10 built-in ringtones that can be assigned to identities, group types, and contact types. It is also possible to download a custom melody.

Assigning ringtones to identities: See "Identities/accounts" on page 64.

Assigning ringtones to contact type VIP and group types






Preferences > Directory Ringtones.

Select a ringtone from the respective drop-down menu and click on "Apply". If you choose "Custom Melody URL", enter the URL to the data file in the text field. It must be a file of the type PCM 8 kHz 16 bit/sample (linear) mono WAV.

Note: Ringers assigned to contact type VIP and to any of the group types override the ringers assigned to the identities. For example, if you have assigned ringer 1 to one of the identities and ringer 2 to the group "Colleagues", the phone will play ringer 2 when a contact from the "Colleagues" group calls that identity.

Adding/Editing Entries on the Phone






Adding new entry manually

1. Press  to open the phone's directory.
2. Press  on the navigation key to go straight to <New Item>.
3. Press .
4. Enter the phone number and press .
5. Enter a nickname in the text field of "nick name" (optional) and/or press . The "Details" screen opens.

Note: Entering a nickname is optional. If you don't enter one, the entry will be listed under the phone number. You can add a first and last name later by editing the entry on the phone or on the web interface.


6. See "Editing existing entry" on page 39 on how to continue.

Adding new entry from call list

1. Press  to open Call history.
2. Press number key to select a call list.
3. Use / to select a call.
4. Press  "Details".
5. Press /"Save" to add the name (if the name was transmitted) and number to the phone directory. If the name is not shown, the number will be used in its place.





See "Editing existing entry" on page 39 on how to add a name, phone type, group, etc.

Adding current caller







Press  to add the caller's name (if transmitted) and phone number to the directory. If the name is not shown, the number will be used in its place.

See "Editing existing entry" on page 39 on how to add a name, phone type, group, etc.













Sorting entries

1. Press  to open the phone's directory.
2. Press .
3. Use / to select the criterion for sorting (nickname, first name, last name, organization, etc.).


Editing existing entry







1. Press  to open the phone's directory.
2. Selecting an entry: Scroll to the entry or enter the first letter of the name.
3. Press . The "Details" screen for the entry will be displayed.
4. Editing a detail.
 - a. Press  /  and  to select a detail. Depending on the detail,
 - b. in some cases, you will see the prompt screen where you can enter or modify text. Edit the data, if necessary, and press  to save and to open the next screen. See also Entering numerals, letters, special characters, and symbols.

In other cases, you will see a succession of screens with context-sensitive buttons. Example: Modifying the settings of "group".

- i. Select "group" with  and . The "favorite" screen opens.
- ii. Use  /  and  to select yes or no. The "group" screen opens.
- iii. Use  /  and  to select family, friend, colleague, work, or none. The "contact type" screen opens.
- iv. Use  /  and  to select VIP, block, or none.
- c. When you are done editing the entry, press .

Deleting an entry

1. Press  to open the phone's directory.
2. Selecting an entry: Scroll to the entry or enter the first letter of the name.

Note: If there is more than one phone number associated with the entry and you want to delete only one of them, press . Select the number you want to delete with  /  and press .
3. Press . You will be asked, "Are you sure?".
4. If you are, press .

Adding/editing entries on the web interface

Click on Directory in the menu on the left side.

Adding new entry

1. Type data in text fields of "Add or Edit Entry".
 - **Number:** Type the number exactly as you would dial it, with country and area codes, if necessary, and without parentheses, hyphens, blank spaces.
 - **Number Type:** Select the type of connection from the drop-down menu. The default setting is SIP.
 - **Contact Type:** Select "None", "VIP", or "Deny" from the drop-down list. The default setting is "None".

- Calls from entries on the "VIP" list will always ring on the phone, even when the phone is in a call or in DND mode.
 - Note:** You can assign a distinct ringtone to the contact type "VIP": Preferences > Directory Ringtones.
- Calls from entries on the "Deny" list will not ring on the phone. The caller will always hear the busy signal.
- o **Outgoing Identity:** The drop-down list shows all identities configured on the phone. If you select one of the identities for one of the numbers listed in the phone book, all calls to that number initiated from the phone book will show that identity on the callee's phone.
- o **Blue area:** The data entered in the textfields will be displayed when the entry is opened on the phone. The data can be used to sort entries by group, name, organization, etc., and can be edited on the phone.
 - "Group" drop-down menu: Available types are "Friends", "Family", "Colleagues", or "Work". You can assign a distinct ringtone to each group type: Preferences > Directory Ringtones.
 - "Nickname": If you enter a nickname, it will appear under the "Name" header of the Directory on the web interface.
- o **First name, family (last) name:** Will be added in this order under "Name" in the directory, unless you have also entered a nickname.
- o **Birthdate:** Uses the format set at Preferences > General information > U.S. Date Format (mm/dd): "On" or "Off". Enter in DD.MM.YR or MM/DD/YR format. Examples:

Date	Input	Output when US Date Format setting is	
		On	Off
March 5, 1980	5.3.80 or 3/5/1980	3/5/80	5.3.80
March 12, 1980	12.3.80 or 3/12/1980	3/12/80	12.3.80
October 5, 1980	5.10.80 or 10/5/1980	10/5/80	5.10.80
October 12, 1980	12.10.80 or 10/12/1980	10/12/80	12.10.80

- o **Favorite:** Tick box to add entry to "Favorites" list.

2. Click on "Add/Edit" to save new entry to directory.



Editing an entry

When you open an existing entry, the current information is displayed in the text fields of "Add or Edit Entry" and two additional buttons, "Add Sub" and "Change", are available.


- Editing

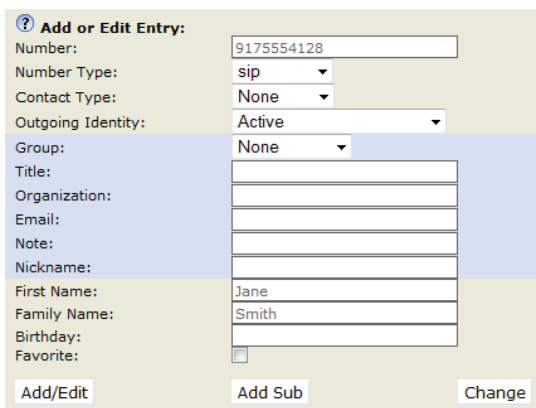
Name:	Number:	Contact Type:	Outgoing Identity:	Edit	Delete
Jane Smith	9175554128	None	Active		
John Miller					
- fixed	9175554230	None	Active		
- private	9175557018	VIP	Active		

- o If single entry, click on in the entry's line.

- If there is more than one number associated with a name:
 - Click on  in the name's line if you wish to edit/add the first or last name of the date of birth and the data in the blue area applicable to the master record.
 - Click on  in a phone number's line if you wish to edit the subentry's data (phone number, number & contact type, outgoing identity, and any blue area data applicable to this subentry only).

Make changes as necessary and click on "Change".

- Adding additional phone number (subentry) for a name
 - Jane Smith's entry has only one phone number, her SIP phone number. In this example, the phone number of Jane Smith's landline will be added to the directory.
 - Click on  in Jane Smith's line. The data is shown in "Add or Edit" area (Fig. 1).



? Add or Edit Entry:

Number:

Number Type:

Contact Type:

Outgoing Identity:

Group:

Title:

Organization:

Email:

Note:

Nickname:

First Name:

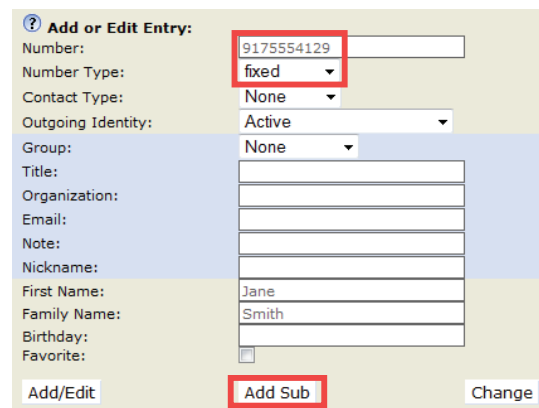
Family Name:

Birthdate:

Favorite:

Add/Edit Add Sub Change

Fig. 1



? Add or Edit Entry:

Number:

Number Type:

Contact Type:

Outgoing Identity:

Group:

Title:

Organization:

Email:

Note:

Nickname:

First Name:


Family Name:

Birthdate:















Favorite:

Add/Edit Add Sub Change



Fig. 2

- Enter the phone number in the text field of "Number" (Fig. 2).
- Select "fixed" from the drop-down menu of "Number type" (Fig. 2).
- If you wish, select a contact type and an outgoing identity from drop-down lists (Fig. 2).
- Click on "Add Sub" (Fig. 2).
- John Miller's entry has a SIP number and a private number. In this example, his cell phone number will be added as a third number.
 - Click on  in the line containing John Miller's name. The data is shown in "Add or Edit" area.
 - Enter the phone number in the text field of "Number".
 - Select the number type.
 - If you wish, select a contact type and an outgoing identity from the respective drop-down list.
 - Click on "Add Sub".


The directory now contains Jane Smith's landline number and John Miller's mobile phone number.

Name:	Number:	Contact Type:	Outgoing Identity:	Edit	Delete
Jane Smith					
- sip	9175554128	None	Active		
- fixed	9175554129	None	Active		
John Miller					
- fixed	9175554230	None	Active		
- private	9175557018	VIP	Active		
- cell	9175554231	None	Active		

Deleting entry on web interface

- Click on  in the line of the master record to delete the name and all associated phone numbers.
- Click on  in the line of a phone number subentry to delete that subentry, but keeping the master record and any other subentries.

Dialing from phone directory

To dial, click on  in the line of the phone number.

Deleting whole directory

Deletes entire directory irretrievably!

Importing/Exporting Directory

See our Wiki at http://wiki.snom.com/Web_Interface/V7/Directory.

External directories

Provided by your network, your VoIP provider, or another external source.

LDAP

Enter the necessary data received from your administrator, VoIP provider or other external source in the text fields of the phone's web interface > Advanced > Network > LDAP and click on "Apply" and "Save".

Enter the first letter of the name you are searching for. Type more letters if the name shown isn't the right one or scroll through the list. Press ✓ to dial.

Contacts

On the phone's web interface > Configuration Identity # > "SIP" tab > "Contact list" click on the radio button "on". Enter the URI received from your administrator, VoIP provider or other external source in the text field of "Contact list URI" and click on "Apply"/"Save".

To dial a contact on the phone, enter the first letter of the name you are searching for. Type more letters if the name shown isn't the right one, or scroll through the list. Press ✓ to dial.

Using the phone

This section describes the functions of the phone with the factory default settings. If your phone was installed and/or set up by someone else, the default settings may have been changed. Please check with that person or company if the phone does not react as described here.

The caller information displayed on the screen is controlled by a setting on the phone's web interface. The default setting is "Name". You can change the setting at Preferences > General Information > Number Display Style by selecting a different option from the drop-down list.

Making calls

See "Entering numerals, letters, special characters, and symbols" on page 23 for information on input modes and entering letters, numerals, and special characters.

Selecting identity for current outgoing call

See "Identities/accounts" on page 64 on how to configure identities.

If more than one identity is shown on the display, the one on the dark bar is the outgoing identity for the call and the number/name that will show on the callee's phone. Use ▲ or ▼ to select another identity.

Using different audio devices

Handset

- Pick up the handset, enter the phone number, and press ✓ OR
- enter the phone number and pick up the handset.



Headset

Enter the phone number and press ✓ or . If Bluetooth headset, see also "Appendix 6 - Wireless Module (D375 only)" on page 94.

Speakerphone

Enter the phone number and press the speaker key.

Handset or headset and casing speaker

1. Use the method for handset or headset use to dial.
2. When the call has been established, press  to allow other persons present in the room to listen to the party on the other end. Press  to turn the speaker off.

Using different dialing methods


Auto dial

If a time span in seconds has been selected from the drop-down menu at Advanced > Behavior > Phone Behavior > Auto Dial, the phone will dial the number on the display when the specified number of seconds has elapsed.


Redialing

1. Press ✓ to show the last numbers dialed, with the very last number at the top.
2. Press ✓ to dial that number or use ▲ / ▼ to select a different number and then press ✓.



Calling number from call history (missed, received, dialed calls)

1. Press .
2. Press the number of one of the lists to open that list.
3. Use ▲ / ▼ to select a phone number.
4. Press ✓ to dial the number.

Calling number from phone directory

1. Press .
2. Use ▲ / ▼ to select a name or enter the first letter(s) of the name on the alphanumeric keypad.
3. Press ✓ to dial the number.

Calling number from external directory

1. If the icon  is available on the idle screen (Fig. 1), press the function key underneath the icon. If the icon is not available, you need to open the dial screen to have access to the external directory:
 - a. Lift the handset off the cradle or press the speakerphone key to open the dialing screen (Fig. 2).
 - b. Press  to show the list of available directories and call lists.
 - c. Select the external directory, in our example LDAP (Fig. 3).

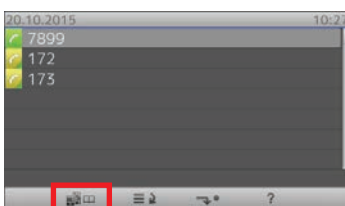


Fig. 1

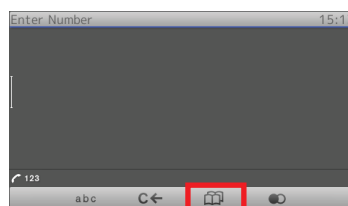


Fig. 2

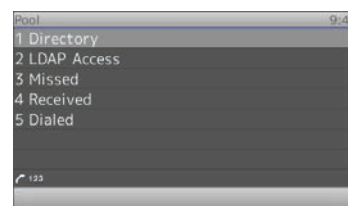


Fig. 3

2. Use ▲ / ▼ to select a name or enter the first letter(s) of the name on the alphanumeric keypad.
3. Press ✓ to dial the number.

Speed dialing

Setting speed dial numbers: See "Speed dial" on page 74. Mapping a speed dial number onto one of the freely programmable function keys 1-12: See "Configuring the function keys", "Example 3, Speed dialing" on page 62.

- Speed dial number on speed dial list
 1. Enter the speed dial number (0-30) or character (#, *) assigned to the phone number you wish to dial.
 2. Press ✓ to dial.
- Speed dial number mapped onto freely programmable function key 1-12: Press the key.

Calling emergency numbers

Numbers specified as emergency numbers can be dialled even when the keyboard is locked! See "Emergency numbers" on page 68 on how to set emergency numbers. Several numbers (911, 112, 110, 999) have been preconfigured.

- On an unlocked keyboard: Enter the number and press ✓ to dial.
- On a locked keyboard: Enter the number. The phone dials the number as soon as you have entered all the digits.

Call completion

Note: This function depends on whether it is available in your network or not. On Snom phones call completion means that when a called number is busy or not available, your phone will call you back as soon as the dialed number is not busy anymore or available again. The factory default setting is "off".

Changing the setting to turn on call completion : See "Call completion" on page 72.

When call completion is enabled, CC will appear in the function key line whenever you dial a number (Fig. 1). Press CC to activate call completion for this call.

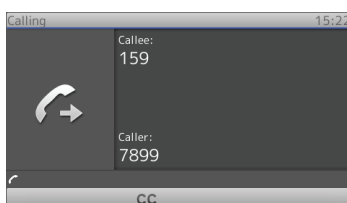


Fig. 1

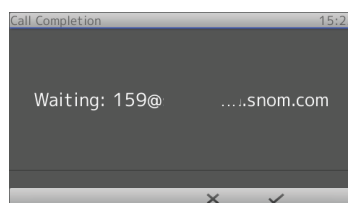


Fig. 2

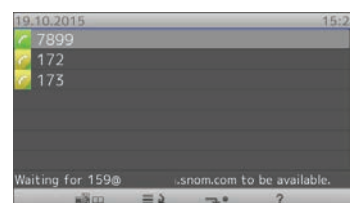


Fig. 3

- Press ✕ to turn off call completion for this call (Fig. 2).
- Press ✓ if you wish to dial another number while waiting for call completion (Fig. 2). You can now hang up the handset to return to the idle screen (Fig. 3); use handset, headset, or speakerphone to dial another number (Fig. 4); receive calls (Fig. 5 and 6), etc. Call completion will not interfere with the normal operation of your phone.

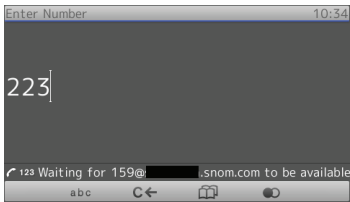


Fig. 4

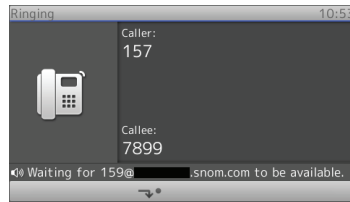


Fig. 5

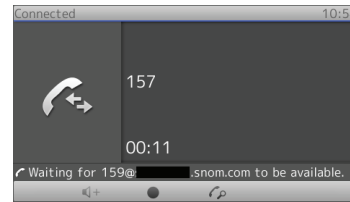


Fig. 6

When the number becomes available, you will see it announced on the display (Fig. 7) and hear a double beep if you are in a call.

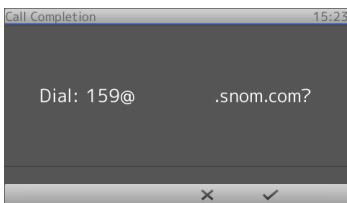


Fig. 7

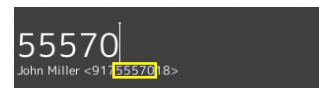
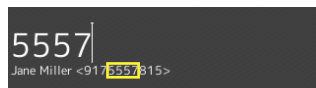
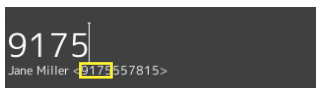
- Press ✓ to dial.
- Press ✕ to turn off call completion for this call.

Number guessing (auto completion)

Note: The default setting for Number guessing is "off". To be able to use it, open the phone's web interface to **Advanced > Behavior > Phone Behavior**, change the setting to "on", and enter the minimum number of characters you must enter before number guessing will start.

When you dial and have typed the minimum number of digits, the phone will propose numbers containing the typed string from the numbers saved on its call lists and in the directory. When the desired number is on the display, press ✓ to dial.

In the following example, the minimum number of characters is four:



Accepting calls

Using different audio devices

Handset: Pick up the handset.


Headset: Press ✓ or the blinking line key. If Bluetooth headset, set also "Appendix 6 - Wireless Module (D375 only)" on page 94.

Speakerphone: Press  .

Automatically accepting calls

The default is "off". Turning the function on: On the phone's web interface > Configuration Identity # > SIP tab > Auto answer: Click on the radio button "On".

With this setting, your phone will automatically accept incoming calls when the phone is idle:

- If you are using Firmware version 8.7.2 and higher, calls will be accepted on speakerphone; press the headset key  if you want them to go to the headset.
- Firmware version 8.7.1 and lower: Open the phone's web interface to the page Preferences > Auto Answer > Type of Answering and select "Handsfree" (speakerphone) or "Headset" from the drop-down menu.

If you want to be alerted acoustically by a single long beep, whenever the phone accepts an incoming call, you need to change another default setting on the phone's web interface from "Off" to "On": Preferences > Auto Answer > Auto Answer Indication.

Call pick-up from another extension

You can pick up calls ringing on another extension, for example when the other extension is busy or when the user is absent. The prerequisites for this function are:

- It must be supported by the PBX.
- The extension whose calls you wish to pick up on your own extension must permit this function and you must both be using the same ID for this function. Settings:
 - Phone's web interface > Configuration Identity > SIP > Allow incoming extension monitoring: "on"
 - Phone's web interface > Configuration Identity > SIP > Extension monitoring group ID: Enter the ID into the textfield. Please note: The first character of the ID must not be a '{' bracket.
- The extension to be monitored must be programmed onto one of the freely programmable function keys with LEDs. See chapter "Configuring the function keys", "Example 1, Extension monitoring and call pick-up" on page 60.

When these prerequisites are met, the status of the monitored extension is indicated by the LED of the function key:

- Blinking LED: Incoming call ringing. If the call is not answered, press the key to pick it up.
- LED glowing steadily: The monitored extension is busy (in call, dialing, etc.).

If you want to see who is calling or connected to any of your monitored extensions, you can call up that information on the display if the "monitor calls" key event is mapped onto another function key. Configuring the function key: See "Example 2, Monitoring calls on-screen" on page 61.

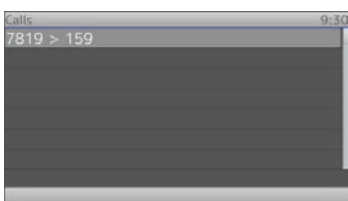


Fig. 1

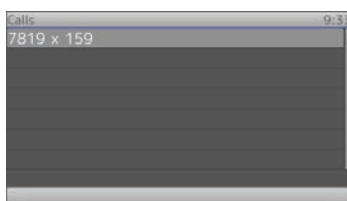



Fig. 2

- Press the key to show any ongoing activity on all extensions monitored by your phone on the display. In the example, extension 159 is a monitored extension. "7819 > 159" (Fig. 1, above) indicates that extension 7819 is calling extension 159; "7819 x 159" (Fig. 2) indicates that 7819 is connected to 159 and that 7819 is the caller, 159 the callee.
- Press  to close the **Calls** screen and return to the idle screen.

Call waiting

When you are in a call, another call coming in will be announced visually in the status line (Fig. 1) and acoustically by the sound of a double beep. If you wish to switch to visual or acoustic announcement only or turn call waiting off completely, see "Call waiting" on page 72.

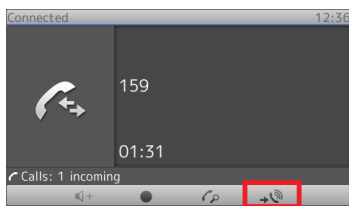


Fig. 1

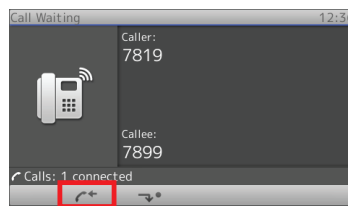


Fig. 2

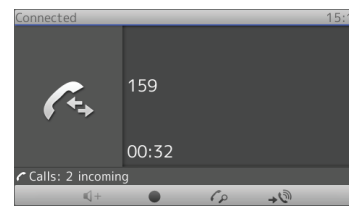


Fig. 3

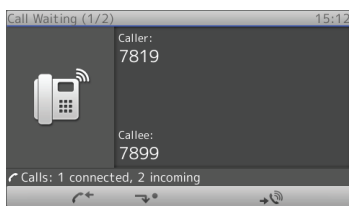


Fig. 4

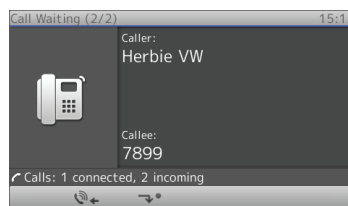












Fig. 5

When a call is waiting, you have the following options:

- Press the blinking line key of the call waiting to put your current call on hold and to accept the second call without knowing who is calling.
- Press the function key underneath  (Fig. 1) to open the **Call waiting** screen (Fig. 2); you will see the caller ID on-screen if it is being transmitted.
 - Press  to reject the call waiting. The caller will hear the busy signal.
 - Press  to accept the second call and put your current call on hold.
 - Press  to return to the **Connected** screen with your current connection (Fig. 1).

Note: Pressing  and  will affect the call on the display, i.e., your current connection in Fig. 1 or the call waiting in Fig. 2.

- If there is more than one call waiting (Fig. 3), press the keys  and  to bring them on-screen.
- If you do not wish to accept the waiting call, you can:
 - ignore the announcement. If you have set call forwarding when busy, the call will be transferred to that phone.
 - reject the incoming call by calling up the **Call Waiting** screen and pressing . The caller hears the busy signal. Pressing  for three seconds will also put the caller on the Deny list of the phone's directory. Future calls from this number will not ring on the phone; the caller hears the busy signal.

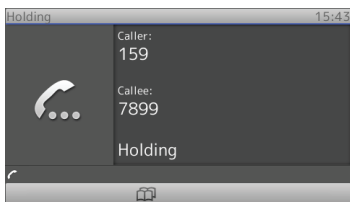
Active calls

Hold

One call on hold

Press **[Hold]** to put the ongoing call on hold. Held calls are indicated threefold:

- By the text on the display.



- By the slowly blinking line key.
- By the slowly blinking call indication LED.

You can now:

- transfer the held call blindly or with prior announcement - see "Transferring calls" on page 53.
- receive and make calls and put other calls on hold.

Pick up the held call by pressing its line key or by pressing **[Hold]** again. If the other party hangs up while on hold the call terminates on your phone as well, and the indicators are turned off.

Holding multiple calls

If you are in a call with one party and have one or more calls on hold or if there is more than one call on hold, you can switch back and forth between the active call and any call on hold, transfer calls, etc. The info bar and the status line will tell you how many total calls there are and which one you are connected to. Your input on the phone's keys will affect the call on-screen at the time, i.e., the call shown in the contact area of the display. Up to 12 simultaneous calls are possible.

Figures H-1 to H-3 show the phone connected to one call with two calls on hold; Figures H-4 to H-6 show the phone with three calls on hold and no connected call.

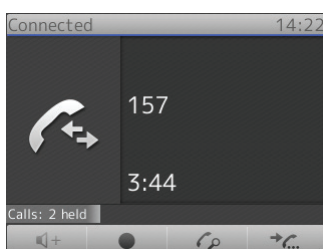


Fig. H-1

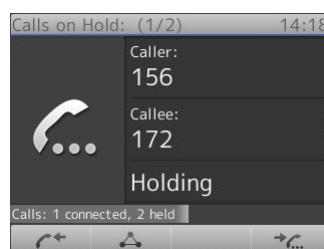


Fig. H-2

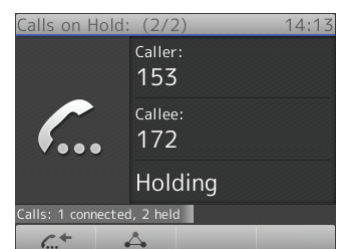


Fig. H-3












Fig. H-4



Fig. H-5



Fig. H-6

- Figures H-1 to H-3:
 - In Fig. H-1 the connected call is on-screen. Press  to put the first held call on the screen.
 - In Fig. H-2 the first held call of a total of two (1/2) is on the screen. Press  again to put the second held call (2/2) on the screen (Fig. H-3). If there are more held calls, continue likewise.
 - Press  to scroll back through the held calls (Fig. H-2 and H-3).
 - When a held call is on-screen, press  to connect to it and put the current connected call on hold.
- Figures H-4 to H-6:
 - In Fig. H-4 the first held call of a total of three Calls on Hold (1/3) is on-screen. Press  to put the second held call on the screen.
 - In Fig. H-5 the second held call (2/3) is on the screen. Press  again to put the third held call (3/3) on the screen (Fig. H-6). If there are more held calls, continue likewise.
 - Press  to scroll back through the held calls (Fig. H-6 and H-5).
 - To connect to the held call currently on-screen, press .
- When the connected call is on-screen, you can terminate it by pressing .
- You can transfer the on-screen call, whether connected or held. See Call Transfer for more information.

Conference

The maximum number of participants is three.

Initiating a conference


1. Call the first intended participants and put him or her on hold.
2. Call the next intended participant.

Note: You do not need to put the last participant on hold before starting the conference.

3. Press  to start the conference.

Conference screen navigation

Your input on the phone's keys will affect the caller/callee(s) or the entire conference shown in the contact area of the display.

Example: A conference with three participants, including yourself. After you have pressed  to start the conference, the names, if available, or phone numbers of the other participants are shown on-screen (Fig. 1).

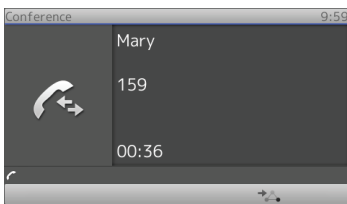





Fig. 1

- Selecting individual participants:
 - With all participants on-screen (Fig. 1), press  to put the first participant on-screen (Fig. 2); press  again to put the next participant on-screen (Fig. 3).
 - Scroll back through the participants by pressing .

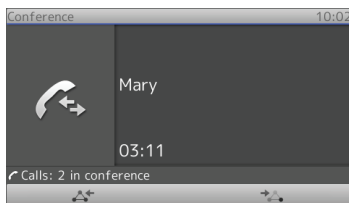


Fig. 2

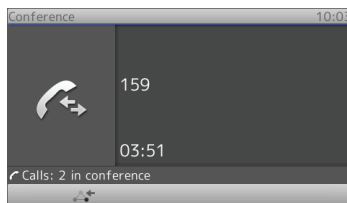





Fig. 3





Fig. 4

- Bringing the entire conference back on-screen: Scroll to the first participant's screen (Fig. 2), then press .


Speaking to one participant in private

1. Put the participant on-screen, as shown in Conference screen navigation, above.
2. Press  to put the other participant on hold and talk in private to the participant whose name or number is shown on the display.
3. To return to the conference, press .

Putting one participant on hold






1. Put the participant on-screen, as shown in Conference screen navigation, above.
2. Press .
3. Press  to return to the conference.

Dropping a participant



1. Put the participant on-screen, as shown in Conference screen navigation, above.
2. Press  to terminate the connection to this participant.

Adding a participant


- Adding an incoming call. An incoming call is indicated as call waiting; see "Call waiting" on page 49 for more information.

1. Press  to put the call waiting on-screen.
 2. Press  or the blinking line key to accept the call. The conference/current call is put on hold.
 3. Press  to start or restart the conference with the additional participant.
- Calling an intended participant:
 1. Press  to put the conference on hold.
 2. Dial the number of the new participant.
 3. With the new participant on the line, press .

Putting the conference on hold

- If one of the participants is on-screen (Fig. 2 or 3), you must first return to the screen with all participants. See Conference screen navigation.
- With all participants on-screen (Fig. 1), press . Technically, you are ending the conference; you will see the "Calls on Hold" screen (see Holding multiple calls, Fig. H-4).
- To restart the conference, press .

Terminating the conference



1. Put the conference screen (Fig. 1) on-screen, if it is not.
2. Press .

Transferring calls



You can transfer connected calls as well as calls ringing on your phone.

- When you have a call on the line, there are two ways to transfer it to a third party:
 - Announcing the call to the third party first, to make sure the call is welcome and will be accepted: Attended transfer;
 - Transferring the call unannounced: Blind transfer. There will be no feedback on whether the third party is available and/or picking up the call.
- When a call is ringing on your phone, you can transfer it to a third party without answering it first (blind transfer only).

Attended transfer

1. Put the call on hold.
2. Dial the number you wish to transfer the call to and announce the call.
3. If the third party wishes to accept the call, press  and .



Blind transfer

1. With a call ringing or on the line, press .
2. Dial the number of third party you intend to transfer the call to.
3. Press .

Call waiting





When you are in a call, another call coming in will be announced visually by the symbol of a phone ringing and acoustically by the sound of a double beep. For more information, see "Call waiting" on page 49.

Terminating calls










- When using the handset: Place the handset in the cradle or press .
- When using speakerphone or a headset: Press .

Missed Calls

Missed calls are indicated by the text "Missed:" and the number of missed calls in the status line and/or on the Status info screen.

- Press  to delete the text "Missed:" and the number of missed calls from the status line.
- Press  to open Status info screen. Press  to view the missed calls. Press  to delete the selected call.

Call lists

1. Press  to open Call history.
2. To view the list of missed, received, or dialed calls, press its number.
3. Scroll through the list with /.
 - Press  to dial the number of the selected call.
 - Press  to delete the selected call.
 - Press  to delete the entire list.
 - Press   to show the call details of the selected call. From the Details screen, press  to add the phone number to your phone's directory. See "Editing existing entry" on page 39 for information on adding a name and other data to the new directory entry.





Rejecting or redirecting incoming calls

This includes manual and automatic rejection and redirection and rejection of anonymous calls.

Manually



If you do not wish to pick up a ringing call, you can take one of the following actions:

- Let it ring.

- Reject it.
 - Press . The caller will hear a busy signal.
 - Pressing  for two seconds will also place the caller on the Deny list of the phone's directory so that calls from that number will not ring on your phone; the caller will always hear the busy signal.
Open the phone's web interface > Directory to edit the entry, to save it permanently, or to delete it from the Deny List.
- Do a blind transfer to another phone.
 1. Press .
 2. Enter the number you wish to transfer the incoming call to.
 3. Press  to complete the transfer. The incoming call will continue ringing at that number.

Automatically

There are three options for rejecting incoming calls automatically or automatically or to have them forwarded automatically, either always or under certain conditions:



- Deny List. Calls from phone numbers on this list will not ring on your phone; callers will hear the busy signal. For further information on placing phone numbers on the Deny List, see Directory.
- DND - do not disturb mode. All incoming calls will be forwarded to the number set in call forwarding when busy; if there is no setting for call forwarding, callers will hear the busy signal.
Exception: Phone numbers designated VIP in your phone's directory will ring on your phone even when DND is on.
 1. Press  to activate DND.
 2. Press  again to deactivate DND.
- Call forwarding. For further information, see "Call forwarding" on page 56 and 70.

Rejecting anonymous calls



With this setting you can make your phone reject calls from phones that are blocking or not transmitting their numbers.

Please note: Calls from analog phone connections without caller ID will, most likely, be received as anonymous calls. They will be rejected if you turn this function on.

Activating rejection of anonymous calls:

1. Press .
2. Press 2 Call Features.
3. Press 3 Incoming Calls.
4. Press 1 to change setting "1 Reject anonymous" from [No] to [Yes].
5. Press  for two seconds to return to the idle screen.


Deactivating rejection of anonymous calls:

1. Press .
2. Press 2 Call Features.
3. Press 3 Incoming Calls.
4. Press 1 to change setting "1 Reject anonymous" from [Yes] to [No].
5. Press  for two seconds to return to the idle screen.

Call forwarding

The phone can be set to forward incoming calls, either always or under certain conditions. The settings can be done on the phone and on the web interface. For further information on using the web interface for these settings, see "Call forwarding" on page 70.
























Forward All: Forwarding all incoming calls to the number of the phone, extension, or mailbox specified as this function's target.


As the default setting, the function key  in the function key line turns forwarding of all calls on and off, but you can also map the function onto another function key or use the settings menu as shown in the table, below.

Forward when Busy: Forwarding calls ringing while phone is busy to the number of the phone, extension, or mailbox specified as this function's target.

Forward after Timeout: When a call starts ringing, the phone will wait for the number of seconds specified in the setting "Call forwarding time". If the call is not accepted by the end of this time period, it is forwarded to the number of the phone, extension, or mailbox specified as this function's target.


Making/changing the settings on the phone and turning on call forwarding

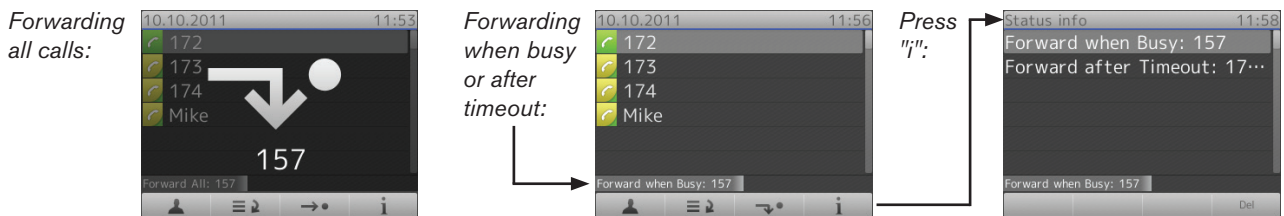
	Forward all	Forward when busy	Forward after timeout
Press			
Press	 2 Call Features	 2 Call Features	 2 Call Features
Press	 1 Call Forwarding	 1 Call Forwarding	 1 Call Forwarding
Press	 1 Forward All	 2 Forward when Busy	 3 Forward after Timeout
Press	 2 Target when forwarding	 2 Target when forwarding	 2 Target when forwarding
Type	phone number	phone number	phone number
Press			
Press			 3 Call Forwarding time
Type			number of seconds
Press			
Press	 1 Enable forwarding [No]	 1 Enable forwarding [No]	 1 Enable forwarding [No]

The setting will change to "1 Enable forwarding [Yes]", indicating that call forwarding is now active. Press  for two seconds to return to the idle screen.


The status line and the status info screen will indicate that call forwarding is turned on and what number calls will be forwarded to.



Note: Forwarding when busy and after timeout are indicated in the status line, which can display only one message at a time. When both are active at the same time, only "Forward when busy" will be displayed. If there are other status messages with a higher priority than "Forward when Busy" (e.g., firmware update available, reboot required, waiting for call completion, etc.), they will take precedence over the call forwarding indication.

Press  to show status info with all current status messages, including call forwarding.


















Turning on forwarding of all calls with a programmable function key


If the function key  is not available when the display is in idle mode, you can make it available on the Function Keys page of the phone's web interface. For further information see "Configuring the function keys" on page 58 .

1. Press . The display will show the "Target when Forwarding" screen.
2. If no forwarding number has been set or if it needs to be changed, make the necessary entries.
3. Press .

Turning off forwarding of all calls: Press .

Turning off call forwarding

	Forward all	Forward when busy	Forward after timeout
Press			
Press	 2 Call Features	 2 Call Features	 2 Call Features
Press	 1 Call Forwarding	 1 Call Forwarding	 1 Call Forwarding
Press	 1 Forward All	 2 Forward when Busy	 3 Forward after Timeout
Press	 1 Enable forwarding [Yes]	 1 Enable forwarding [Yes]	 1 Enable forwarding [Yes]

The menu item changes to "1 Enable forwarding [No]". Press  for two seconds to return to the idle screen.

Turning off forwarding of all calls with the programmable function key: Press .

Configuring the function keys

See "Opening the web interface" on page 32 on how to open the phone's web interface, for an explanation of administrator and user mode. See "How the web interface works" on page 33 on the mechanics of navigating in the windows and changing the settings.

Any changes you make will not take effect until you press "Apply" and "Save". Changes will be lost if you open another page of the web interface without first pressing "Apply"/"Save".

Function keys on Snom phones

Every phone has a limited number of hard keys. Phone users, however, have a myriad of different priorities and preferences when asked which functions they use most often and which functionalities they would like to access quickly. Snom has therefore designed the function keys to be programmable, even the preprogrammed "hard keys" whose default function is printed on the casing.

There are four types of programmable function keys: See the illustration in "At a glance" on page 18.

- Freely programmable function keys with LEDs (P1 - P12). All available functionalities, including key events, can be programmed onto them.
 - **Context**

This setting specifies which configured identity will be used when executing the functionality of the key. You may want to use this feature when you have accounts with different providers or when you wish to present different identities to certain destinations.

For example: If you have programmed key P12 to speed dial a specific number and you want to use configured identity 2 to call that number, select configured identity 2 from the drop-down menu of P12's "Context". When you speed dial the number by pressing key P16, identity 2 will be used as the outgoing identity.

The default setting is "Active", which means that the identity selected as the phone's outgoing identity at any given time will be used.
 - **Type**

Select the type of functionality from the drop-down list. See appendix for more information. If you select "Key Event", a drop-down list with the available key events will replace the text field under "Number". The default setting is "line".
 - **Number**

Enter one phone number or value for the function or, if the function is key event, select an event from the drop-down list. Enter phone numbers exactly the way they need to be dialed, i.e. type the number without spaces or punctuation marks between the digits. For example, a number with an area code that might conventionally be notated as (916) 555-1234 should be entered as 9165551234.

- Context-sensitive, programmable function keys. For the default settings, see "At a glance" on page 18. You can select a different key event to be available on each respective key when the phone is in idle mode.

You cannot change the functions that are available when the phone is active, for example when you are in a call, when the phone is ringing, etc. Depending on the activity, different functions will be available.

See "Appendix 1 - Display symbols and Icons" on page 79 for the lists of symbols and their description.

- Navigation, confirmation, and cancel keys. For the default settings, see "At a glance" on page 18. You can select a different key event to be available on each respective key when the phone is in idle mode.

You cannot change the functions that are available when the phone is active, for example when you are in a call, when the phone is ringing, etc.

- Dedicated, customizable function keys. The default setting is the respective key event printed onto the casing. Other key events and a selected number of other functionalities can be programmed onto them.

Programming the function keys

This chapter will show you a few examples for customizing function key settings to your needs and preferences:

- First example: Extension monitoring and call pickup via a freely programmable function key with LED
- Second example: Monitoring calls on-screen
- Third example: Speed dialing with a freely programmable function key with LED
- Fourth example: Changing Setting of Context-Sensitive Key

Example 1, Extension monitoring and call pick-up

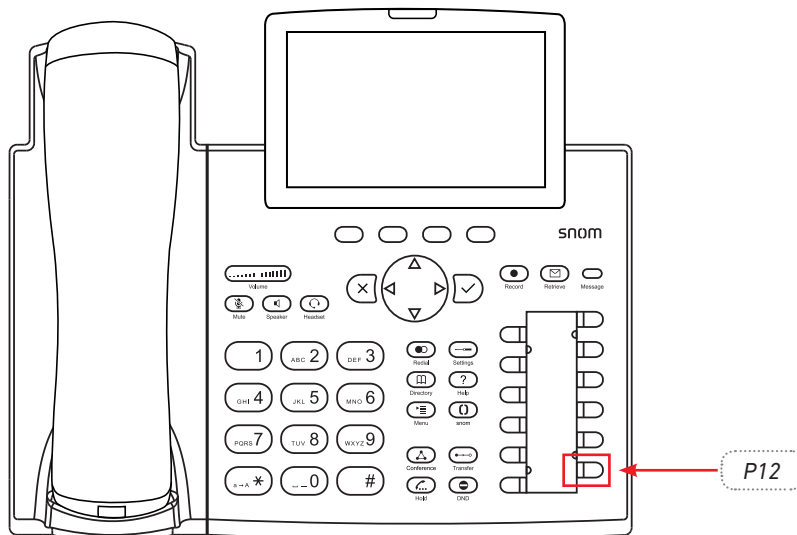
This feature makes it possible to pick up a call ringing on another extension, for example when the other extension is busy or when the user is absent. The prerequisites for this function are:

- It must be supported by the PBX.
- The extension whose calls you wish to pick up on your own extension must permit this function and you must both be using the same ID for this function. Settings:
 - Phone's web interface > Configuration Identity > SIP > Allow incoming extension monitoring: "on"
 - Phone's web interface > Configuration Identity > SIP > Extension monitoring group ID: Enter the ID into the textfield. Please note: The first character of the ID must not be a '{' bracket.
- The extension to be monitored must be programmed onto one of the freely programmable function keys with LEDs. In our example we are monitoring extension 159 on key P12.

Context	Type	Number
P5	Active	Key Event
P5	Active	Monitor Calls
P5	Active	7899@snom.com
P5	Active	Extension
P5	Active	<sip:159@snom.com
P5	Active	P12
P6	Active	Action URL

1. On the phone's web interface, click on "Function Keys" in the menu on the left.
2. Under "Context" of P12, select Active or one of the configured identities from the drop-down list.
3. Under "Type" of P12, select "Extension" from the drop-down list.
4. Under "Number" of P12, enter the phone number whose calls you wish to pick up. In our example it is 159.
5. Click on "Apply" and "Save".

The LED of key P12 on the phone will now flash red quickly when a call is ringing on 159. If the call is not answered, you can pick it up by pressing key P12. When 159 is engaged in a call, the key will glow red steadily.

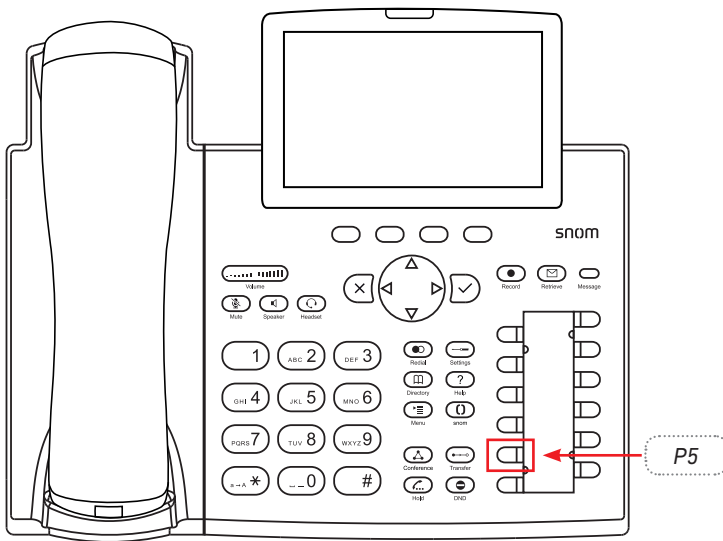


Example 2, Monitoring calls on-screen

When you are monitoring another extension or phone line, you may want to see more information on the display, for example the number of an incoming call to that extension or line. In our example, key P5 will be programmed to show ongoing activity on monitored extensions or lines on the display.

Context	Type	Number
P5	Active	Key Event
	7899@snom.com	Extension
		<sip:159@snom.com
P6	Active	Action URL

1. On the phone's web interface, click on "Function Keys" in the menu on the left.
2. Under "Context" of P5, select Active or one of the configured identities from the drop-down list.
3. Under "Type" of P5, select "Key Event" from the drop-down list.
4. Under "Number" of P5, select "Monitor Calls" from the drop-down list.
5. Click on "Apply" and "Save".



Press key P5 on the phone to show any ongoing activity on all extensions monitored by your phone on the display. In the following example, extension 159 from Example 2 on the preceding page is a monitored extension. "7819 > 159" in Fig. 1 indicates that extension 7819 is calling extension 159; "7819 x 159" indicates that 7819 is connected to 159 and that 7819 is the caller, 159 the callee.

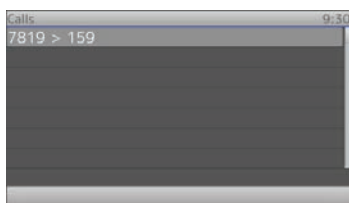


Fig. 1

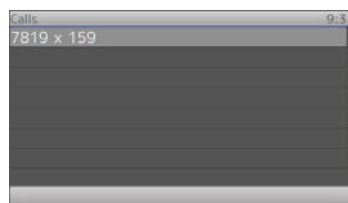


Fig. 2

Example 3, Speed dialing

Besides using the "Speed Dial" page on the web interface to program speed dial numbers, you can also put the functionality on the freely programmable function keys with LEDs. In our example, key P6 will be used.

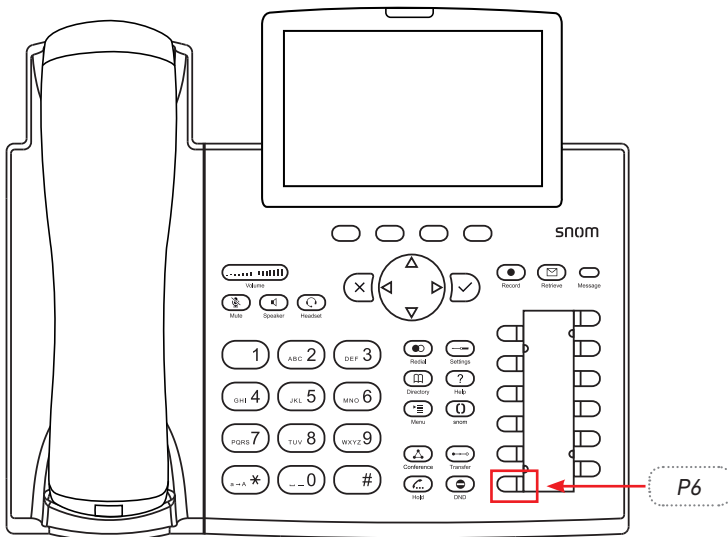
Context	Type	Number
P5	Active	Monitor Calls
	Extension	<sip:159@snom.com
P6	Active	Speed Dial
	Speed Dial	9175550184

1. On the phone's web interface, click on "Function Keys" in the menu on the left.
2. Under "Context" of P6, select Active or one of the configured identities from the drop-down list.
3. Under "Type" of P6, select "Speed Dial" from the drop-down list.
4. Under "Number" of P6, enter the phone number that you wish to speed dial. In our example it is phone number 555-0184 in area code 917. Type each phone number with any necessary area code and/or country code etc. without spaces, hyphens, etc.

Example: In conventional notation you might write the number as (917) 555-0184. Type 9175550184 into the text field.

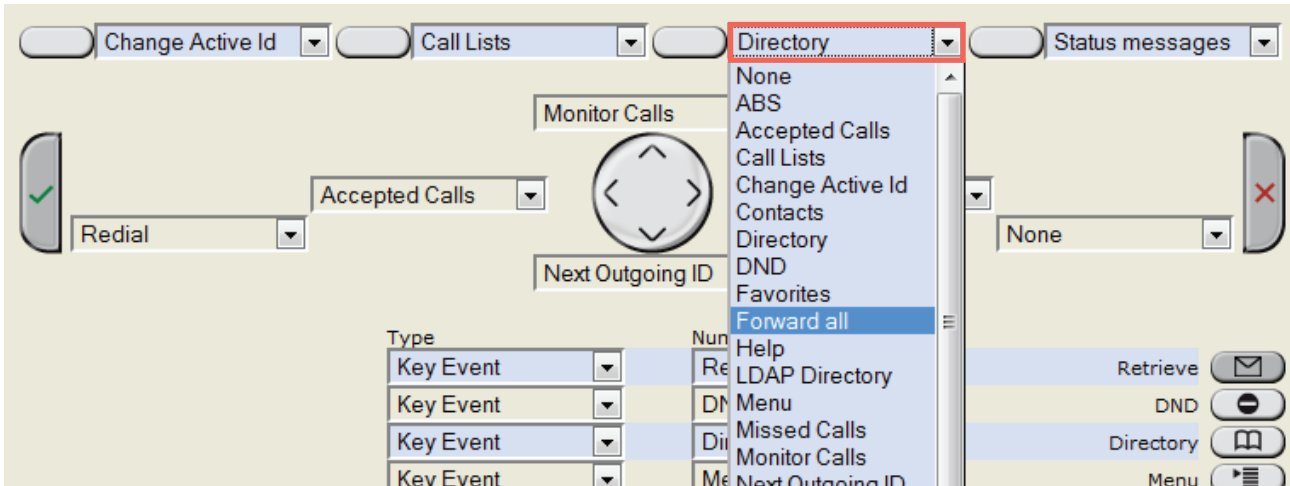
5. Click on "Apply" and "Save".

You can now speed dial the number 9175551784 by pressing key P6 on the phone.



Example 4, Changing Setting of Context-Sensitive Key

You can select a different key event to be available on each respective key when the phone is in idle mode. You cannot change the functions that are available when the phone is active, for example when you are in a call, when the phone is ringing, etc. In the following example, the setting of the second key from the right will be changed from **Directory** to **Forwarding all calls**.



1. On the phone's web interface, click on "Function Keys" in the menu on the left.
2. Click on the drop-down list of the second key from the right.
3. Select "Forward all" from the drop-down list.
4. Click on "Apply" and "Save".

Using the configured context-sensitive function key on the phone to turn forwarding of all calls on and off:

1. Press the key (Fig. 1).
2. The display will prompt you to enter a forwarding target (Fig. 2). If one has already been set, the display will propose that number; you can accept it with or change it and then press . Forwarding of all calls is now activated (Fig. 3)
3. To turn off forwarding of all calls, press the key again (Fig. 3).

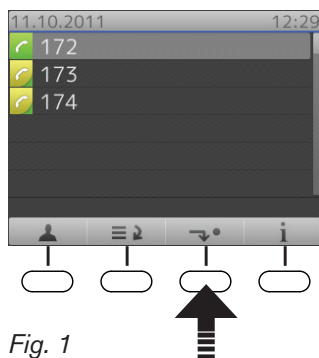


Fig. 1

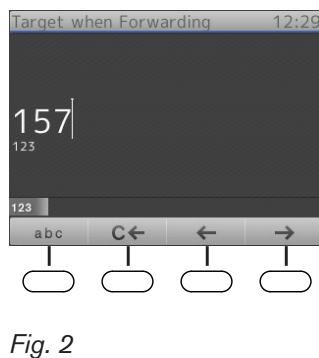


Fig. 2



Fig. 3

Customizing the phone settings

See "The phone's web interface" on page 31 on how to open the phone's web interface, how the web interface works, and how to change the settings. See "User mode/administrator mode" on page 34 on the difference between administrator and user mode.

If you have access to administrator mode, but do not consider yourself to be an expert on SIP and SIP phones, we recommend that you do not change any of the technical settings since this may adversely affect the phone's performance or put it out of order altogether.

If you want more information on a web interface setting, click on the radio button with the question mark that you see to the right of each item. It links to a page on snom's Wiki with detailed information about that particular item.

On customizing the function key settings, see the chapter "Configuring the function keys" on page 58.

Note: Any changes you make on the web interface will not take effect until you click on "Apply" and "Save". Changes will be lost if you open another page or tab of the web interface or if you close the web interface without first clicking on "Apply" and "Save".

Identities/accounts

The phone supports up to twelve accounts or "phone numbers" with one or more providers or within an office or organization network. On Snom phones these accounts or phone numbers are called "identities".








If your phone is part of an office network, you may need to contact your administrator to configure new or change existing identities, as this can only be done when the phone is running in administrator mode and when the PBX settings allow it.

See "Phone Installation and initialization" on page 8 for the information on required input data.

Configuring new identity/account

On the phone

You can do the basic setup (account/number & registrar):

1. Press  > 3 Identity > 3 Edit User.
2. Press  to scroll down.
 - When you are at the top of the list, pressing  will take you to identity 12.
 - At any other position within the list, press   to scroll.
3. When you have reached the identity you wish to edit, press  to select it.
4. When prompted, enter Account and Registrar.
5. Press .

On the web interface

Open the web interface and click on an identity in the menu on the left. The configuration window for that identity will open; it contains four tabs, with the left one, Login, visible in the front. To view SIP, NAT, and RTP pages, click on the respective tab; the font weight of the tab on the active page is **bold**.

1. **Login tab.** Enter the information received from your provider or your administrator in the appropriate fields.

- Display name

The display name is optional and freely selectable. It will be sent to any parties you call unless you hide your identity (see "Hiding my caller ID" on page 73). If you do not enter a display name, the data in the "Account" text field will be shown on your display and sent to any parties you call unless you hide your identity.

- Display text for idle screen

Any text you enter in in this text field will be shown - instead of your display name or account - on your display only. It will not be sent to any parties you call.

- Ringtones

The phone has 10 built-in ringtones that can be assigned to identities, group types, and contact types. It is also possible to download a custom melody and to turn off the ringer by selecting "Silent".

See "Assigning ringtones" on page 66.

2. **SIP settings.** Click on the SIP tab to bring the page to the front. It contains a number of technical settings and textfields for entering URIs/URLs to various servers (for music-on-hold, for example), as well as some behavior settings. These are:

- Automatic acceptance of incoming calls: Identity # > SIP tab > Auto Answer. The default setting is "off".

Acoustic alert (one short beep) when the phone accepts a call automatically: Preferences > Auto Answer > Auto Answer Indication. The default setting is "off".

- Contact List. A contact list must be available on a server. Click "on" and enter the Contact List URI .

- Identity can receive calls. The default setting is "on". The default setting is "on". If you want to be able to use the identity for outgoing calls but do not wish other phones to be able to call the identity, turn the setting off.

- Allow incoming extension monitoring. If you do not wish other phones to be able to monitor the activity on your phone, turn the setting off.

You can also allow only certain phones to monitor and pick up your calls. In this case, select the "On" setting and enter a password into the next field of the next setting, "Extension monitoring group ID" .








Note: The password cannot start with a "{" bracket.

Any phone allowed to monitor and pick up your calls must also use the same password in this text field..

Editing an existing identity/account

On the phone

You can edit the account/number and the registrar only:

1. Press  > 3 Identity > 3 Edit User.
2. Press  to scroll down.
 - When you are at the top of the list, pressing  on the navigation key will take you to identity 12.
 - At any other position within the list, press   to scroll.
3. Press  to open the selected identity.
4. When prompted, enter Account and Registrar.
5. Press .

On the web interface

Open the Configuration page of the identity and make the changes in the text fields. For more information, see "Identities/accounts" on page 64.

If you have changed the account or the registrar, click on "Re-Register" and "Save". If you have made other changes, clicking on "Apply" and "Save" suffices.

Assigning ringtones




The phone has 10 built-in ringtones that can be assigned to identities, group types, and contact types. It is also possible to download a custom melody. When an incoming call to an identity is ringing, the phone will play the ringtone assigned to that identity, unless it is a call from a VIP or a group with a distinctive ringer of their own.

Note: Ringers assigned to the contact type VIP and to any of the group types override the ringers assigned to identities. For example, if you have assigned Ringer 1 to one of the identities and Ringer 2 to the group "Colleagues", the phone will play Ringer 2 when a contact from the "Colleagues" group calls that identity.

If your ringtones don't seem to work as expected, contact your administrator. There may be an overriding setting on the PBX.

Assigning ringtones to contact type VIP and group types: See page 37.

Selecting identity ringtones:

- **On the phone:** 1 Preferences > 3 Ringer. The identities are shown on the display.
 - Select an identity with  /  and press  to hear the current ringtone for that identity.

- Selecting a different ringtone: Press ▲ / ▼ to navigate up and down the list. The marked ringtone is played. Press ↵ to save the marked ringtone as the new ringtone for the currently selected identity and return to the identity screen.
- **On the web interface** (the ringtones will be played by the phone): Configuration Identity (1-12) > Login.
 - Click on "Play Ringer" to play the currently selected ringer.
 - To change the ringer, select a ringer from 1 to 10 in the drop-down menu of "Ringtone". If you have selected the custom melody, enter the URL to the data file in the text field underneath. It must be a file of the type PCM 8 kHz 16 bit/sample (linear) mono WAV.
 - Click on "Apply" and "Save".

Date and time formats

The date and time formats can be set and changed on the web interface only.

Date

1. Open Preferences > General Information > US Date Format. The default is "on".
 - Select "on" to have the date shown on the phone's display in "m/d/yyyy" or "mm/dd/yyyy" format. Examples: May 6 will be displayed as 5/6; December 10 will be displayed as 12/10.
 - Select "off" to have the date shown on the phone's display in "d.m.yyyy" or "dd.mm.yyyy" format. Examples: May 6 will be displayed as 6.5; December 10 will be displayed as 10.12.

Date	US Date Format	
	Setting "On"	Setting "Off"
March 5, 2012	3/5/2012	5.3.2012
March 12, 2012	3/12/2012	12.3.2012
December 5, 2011	12/5/2011	5.12.2011
December 10, 2011	12/10/2011	10.12.2011

2. Click on "Apply" and "Save".

Time

The time setting affects phones and/or firmware versions with a digital clock only. If the phone has a clock face, changing the setting will not affect it.









1. Open Preferences > General Information > 24 Hour Clock. The default is "on".
 - Select "on" to have the time on the phone's display shown in 24-hour format, 00:01 to 24:00 .
 - Select "off" to have the time on the phone's display shown in AM/PM format, 0:01AM to 12:00PM.
2. Click on "Apply" and "Save".

Time zone

The phone receives the time and date from your NTP time server. If the time and/or date on the display are incorrect, you may need to set the correct time zone. If you have set the correct time zone and the time is still incorrect, there may be a problem with the time server. Contact your network administrator or your IP provider.

The list of time zones is arranged by the difference in hours (+/-) to the UTC and, within each time zone, alphabetically by selected locations (country or country and city). Selecting and setting the time zone:

On the phone

1. Press  > 1 Preferences > Time & Date > 1 Time Zone.
 - Press  to collapse the list to show only selected times zones where the phone language is spoken.
 - Press  to show all time zones.
 - Press  to fast-forward to the beginning of the next time zone, i.e., UTC +1, +2, etc.
 - Use   to scroll.
2. Press  to save your selection
3. Press  for two seconds to return to the idle screen.

On the web interface

This setting can be accessed in administrator mode only.

1. Open Advanced > Network tab > Time > Timezone.
2. Select your timezone/country/city from the drop-down list.
3. Click on "Apply" and "Save".

Emergency numbers

These numbers can be called even when the keyboard is locked. The numbers "911", "112", "110", and "999" are preset.




Change/add numbers: Web interface > Preferences > Lock Keyboard > Emergency Numbers (space separated). Type each number without spaces, hyphens, etc. between the digits, separate the individual numbers with one empty space between them. Example: 911 112 110 999.

Language settings of phone and web interface

The language used on the phone can be changed on the phone as well as on the web interface. The language used on the web interface can be changed on the web interface only.

Phone language

Setting on the phone

1. Press  > 1 Preferences > 4 Language.
2. Use ▲▼ to scroll.
3. Press  to save the selected language.
4. Press  for two seconds to return to the idle screen.

Setting on the web interface

1. Open Preferences > General Information > Language.
2. Select the language from the drop-down list.
3. Click on "Apply" and "Save".




Web interface language

1. Open Preferences > General Information > Webinterface language.
2. Select the language from the drop-down list.
3. Click on "Apply" and "Save".

Dial tones

Different dial tones for different countries! Select yours on the phone or on the web interface.

Setting on the phone

1. Press  > 1 Preferences > 2 Tone Scheme.
2. Use ▲▼ to scroll.
3. Press  to save the selected country.
4. Press  for two seconds to return to the idle screen.

Setting on the Web Interface

1. Open Preferences > General Information > Tone Scheme.
2. Select the country from the drop-down list.
3. Click on "Apply" and "Save".

Emergency numbers

These are numbers that can be dialed even when the keyboard is locked. They must be set beforehand on the web interface.

1. Open Preferences > Lock Keyboard > Emergency Numbers (space separated).
2. Enter the emergency numbers in the text field. Type each number without spaces between the digits, separate the individual numbers with one empty space between them.

Example: If you want to set the emergency phone number 911 and the phone numbers of your doctor (986543) and a friend (234578), the entry would look this: 911 986543 234578.

3. Click on "Apply" and "Save".

Call forwarding

This feature automatically redirects all or certain incoming calls to another phone or a mailbox. It is possible to configure the settings on the phone and on the web interface.

Always

All incoming calls are forwarded to the number of the phone, extension, or mailbox specified as this function's target.

When busy

Calls ringing while the phone is busy are forwarded to the number of the phone, extension, or mailbox specified as this function's target.

After timeout

When a call starts ringing, the phone will wait for the number of seconds specified as "call forwarding time". If the call has not been accepted by the end of this time period, it is forwarded to the number of the phone, extension, or mailbox specified as this function's target.

Configuring the settings on the phone

See "Making/changing the settings on the phone and turning on call forwarding" on page 56.

Configuring the settings on the web interface

If your internet telephony provider or your PBX uses codes to turn functions on and off, refer to their manuals for the codes to enter in "On Code"/"Off Code" text fields or ask your administrator.

Setting forwarding numbers

- Forwarding all incoming calls:
 1. Open Preferences > Call Forwarding > Always.
 2. Type the phone number in the "Target" text field. Type each number the way it needs to be dialed by the phone, without spaces or punctuation between the digits.
 3. Click on "Apply" and "Save".
- Forwarding incoming calls when the phone is busy:
 1. Open Preferences > Call Forwarding > Busy
 2. Type the phone number in the "Target" text field. Type each number the way it needs to be dialed by the phone, without spaces or punctuation between the digits.
 3. Click on "Apply" and "Save".
- Forwarding incoming calls when they are not answered:
 1. Open Preferences > Call Forwarding > Timeout.
 2. Type the phone number in the "Target" text field. Type each number the way it needs to be dialed by the phone, without spaces or punctuation between the digits.
 3. Click on "Apply" and "Save".

Turning call forwarding on

1. Web interface > Preferences > Call Forwarding.
2. Click "On" after the forwarding event ("Always", "Busy", "Timeout").
3. Click on "Apply" and "Save".

Turning call forwarding off

1. Web interface > Preferences > Call Forwarding.
2. Click "Off" after the forwarding event ("Always", "Busy", "Timeout").
3. Click on "Apply" and "Save".



Call completion

On Snom phones call completion means that when a called number is busy or not available, your phone will call you back as soon as the dialed number is not busy anymore or available again. The factory default setting is "off".

Note: This function depends on whether it is available in your network or not.

Changing the setting to turn it on:

On the phone

 > 2 Call Features > 2 Outgoing Calls > 4 Call Completion [On]/[Off]. Press  to change setting from **On** to **Off** and vice versa.

On the web interface

Open the phone's web interface > Advanced > Behavior > Phone Behavior > Call completion > .


Call waiting

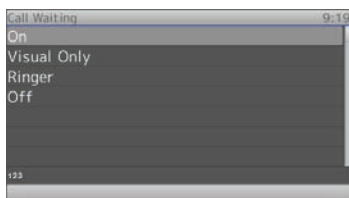
Default setting: When in a call, another incoming call coming in is announced visually in the status line and acoustically by the sound of a double beep. See "Call waiting" on page 49 on how to use this feature. Available settings:


- **On:** Visual and acoustic announcement of calls waiting
- **Visual only:** Visual announcement of calls waiting in the status line
- **Ringer:** Acoustic announcement by double beeps
- **Off:** No announcement; callers hear the busy signal

Starting with FW 8.7.5.9, call waiting can be set independently for each identity on the phone's web user interface. If you use the phone to change the setting, it will apply to the current outgoing identity.

On the phone

1. Press  > 2 Call Features > 3 Incoming Calls > 2 Call Waiting.



2. Select setting with ▲▼.
3. Press  to save.



On the web interface

1. Click on the identity whose call waiting settings you want to change.
2. Click on the **SIP** tab. The setting **Call Waiting Indication** is the second to last on the page.
3. To turn call waiting off, select "off" from the drop-down menu. Select "visual only" or "ringer" if you want waiting calls announced only by the "phone ringing" symbol or the double beep, respectively.
4. Click on "Apply" and "Save".

Hiding my caller ID

With this setting your phone number will not be transmitted to any phones you call. Please note that your call may not be accepted if the other phone is set to reject anonymous calls (see next item).

On the phone

 > 2 Call Features > 2 Outgoing Calls > 5 Hide own outgoing ID [Yes]/[No]. Press  to change setting from **Yes** to **No** and vice versa.

On the web interface



1. Open Preferences > Privacy Settings > Suppress own number (CLIP/CLIR).
2. Select the radio button "Hide".
3. Click on "Apply" and "Save".

Rejecting anonymous calls

With this setting you will not receive calls from phones whose number is not shown on your display. Anonymous callers will hear the busy signal.

Please note that calls from analog phone connections will, most likely, be received as anonymous calls.

On the phone

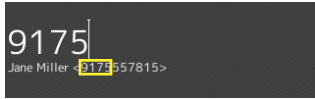
 > 2 Call Features > 3 Incoming Calls > 1 Reject anonymous [Yes]/[No]. Press  to change setting from **Yes** to **No** and vice versa.

On the web interface

1. Open Preferences > Privacy Settings > Reject incoming anonymous calls.
2. Select the radio button "Reject".
3. Click on "Apply" and "Save".

Number guessing

When you have typed the minimum number of characters you have specified for this function, the phone will look for numbers containing that string of characters in its call lists and directories and, if it finds matches, show the number(s) on the display. If the number proposed on the display is the one you wish to dial, press ; if not, continue entering digits.



The default setting is off. Changing the setting:

On the phone

> 2 Call Features > 2 Outgoing Calls > 3 Number Guessing [On]/[Off]. Press to change setting from **On** to **Off** and vice versa.

On the web interface

1. Open Advanced > Behavior tab > Phone Behavior > Number Guessing.
2. Select the radio button "on".
3. Type the minimum number of digits in the text field of "Number Guessing Minimum Length".
4. Click on "Apply" and "Save".

Speed dial

You can use the numbers 0 to 30 and the special characters # and * to speed dial frequently and/or long numbers without having to enter the complete phone number. The numbers must be set on the phone's web interface first.

1. Open Setup > Speed Dial.
2. Enter one phone number with any required prefixes (area code, country code, operator/auto attendant, etc.) in the text field for each respective number or special character.

Note: Type each phone number without spaces or punctuation between the digits.

For example: You want to be able to speed dial the phone number 555-1784 in area code 917 by pressing the key. In conventional notation you might write the number down as (917) 555-1784. In the speed dial table, type 9175551784 into the text field of the number 1.


If you want to add a name or other data before or after the number, type the number in angled brackets <>. Example: Accounting <9175551784>.

Speed Dial Table:	
0:	XYZ SalesRep. <9175551770>
1:	XYZ Accounting<9175551784>

3. Click on "Apply" and "Save". You can now speed dial the number by pressing and on the phone.

Software update

Manual update

1. Open snom's web page at www.snom.com.
2. Click on Support > Download > Firmware.
3. Click on the phone to be updated.
4. Click on the firmware version currently running on your phone.
5. Click on the firmware version you want to update to.
6. Right-click on the version's link and copy it.
7. Open the phone's web interface > Setup > Software Update.
8. In the Manual Software Update area, paste the link into the text field behind Firmware.
9. Click on Load. The phone begins to reboot.
10. If the phone asks "Reboot?", press .
11. DO NOT DISCONNECT THE POWER WHILE THE PHONE IS REBOOTING!



Auto provisioning

See our web page http://wiki.snom.com/Features/Mass_Deployment for information.

1. Open the phone's web interface > Setup > Advanced > Update tab.
2. Please read the instructions at "?" of each line carefully.

Troubleshooting

Reboot



1. Press .
2. Press 5 Maintenance.
3. Press 3 Reboot.
4. When asked whether to "Reboot?", press .
5. Wait for the idle screen to reappear.

Hard reboot

Disconnect the power, wait for a few seconds, and reconnect. Wait for the idle screen to reappear.

Warning: Never disconnect the power during a firmware update!

Reset to factory values

1. Press .
2. Press 5 Maintenance.
3. Press 4 Reset values.
4. Enter the administrator password and press .
5. Wait for the idle screen to reappear.
6. See "Initialization" on page ... to continue.

Warning: All customized settings will be lost!

TFTP Update

When there is no other way to get the phone to work (administrator password lost, etc.). How it is done: See http://wiki.snom.com/Firmware/Update/TFTP_Update/en.

Warning: All customized settings will be lost!

Manual initialization

When automatic initialization via DHCP fails, enter the values for netmask, IP gateway, and DNS server manually after each prompt on the display.

Contacting Snom Support

Please visit our knowledge base and our forum first. You may find the answer to your question in one of the topics there. If you haven't found an answer or a solution to your problem, please post your question or problem on the forum (<http://forum.snom.com>).

Note: The forum is accessible to the general public. Do not post any private and/or security-relevant information there. This includes MAC addresses, SIP headers, etc. that may allow others to hack into your system or use your identity for nefarious purposes.

If you haven't received an answer or solution within a reasonable amount of time (generally two work days), send the link to your posting to Support. You need to create a support account first, if you don't already have one.

Creating a support account

1. Open snom's web page at www.snom.com.
2. Click on the Support tab to open the Support window.
3. Click on End Customer Support.
4. On the Support Center page, click on Register new account. (Neu anmelden)
5. Fill out the form and click Register. (Anmelden)
6. You will receive an automatic email. Click on the link to activate your account.
7. You will receive a second email containing your account name, email address, and password.

You can now submit tickets requesting support to Snom Support.

Submitting a ticket

1. Open snom's web page at www.snom.com.
2. Click on the Support tab to open the Support window.
3. Click on End Customer Support.
4. On the Support Center page, enter your email address and password and click on Login.
5. Click on "Ask for support". (Eine neue Anfrage/Frage stellen)
6. Follow the instructions on the screen.

Submitting system and settings information

System information

1. Open the phone's web interface > Status > System Information.
2. Copy the text under System Information into your forum posting or into the email, if Support has asked you to contact them by email.

Make sure to delete the MAC address and the IP address, if it is a public one.

Settings information

1. Open the phone's web interface > Status > Settings.
2. Copy the settings list into your forum posting or into the email, if Support has asked you to contact them by email.

Make sure to delete private and/or security-relevant information like the MAC address, public IP address, etc.

Traces

Snom Support may ask you to submit a SIP Trace and/or a PCAP Trace to help them analyze your problem.

Performing a SIP Trace

1. Open the phone's web interface > Status > SIP Trace.
2. Click on "Clear" to clear the page.
3. Recreate the error to be documented in the trace.
4. Click on "Reload".
5. Copy the text and submit to Support in whatever form they requested you to use.

Performing a PCAP Trace

1. Open the phone's web interface > Status > PCAP Trace.
2. Click on "Start" to start recording network traffic.
3. Click on Stop to end recording.
4. Click on the "here" link to open the file download window and save the file.
5. Submit the file to Support in whatever way they requested you to use.















Appendix 1 - Display symbols and Icons



Symbols found in the function key line

The buttons symbolize the functions that are currently available for activation. Press the function key underneath the symbol to activate the function.

Programmable function symbols





















These are the symbols displayed in the function key line when the phone is idle. They can be selected on the phone's web interface > Function Keys page. See "At a glance" on page 18 for the default settings.



















	Displaying SIP URLs of all active identities; selecting outgoing identity
	External phone directory
	Call list menu (missed, received, and dialed calls)
	Available status messages
	Turning DND on and off
	Contacts list
	Forwarding all calls (turning on/turning off)
	Presence signaling on/off
	Retrieving messages from mailbox
	Settings menu
	Directory
	Monitoring calls on other extensions (see Extension Monitoring). The button will only be displayed when there are ongoing calls.
	IP address of phone and snom's web address
	Redial (dialed calls)
	Received calls
	Missed calls
	Favorites
	LDAP Directory

	Next outgoing ID
	Previous outgoing ID
ABS	Address book search (OCS accounts only)

Context-sensitive symbols




These are the symbols displayed in the function key line when the phone is active, for example when a call is ringing, when you are dialing, etc.

	Confirming a selection or an action
	Terminating/canceling an action and return to the previous screen
	Switching input mode to small letters
	Switching input mode to capital letters
	Switching input mode to numerals
	Deleting the character to the left of the cursor
	Moving down lists in various contexts
	Moving up lists in various contexts
	Available directories, contact lists, etc.
	Sorting Directory entries
	Editing mode for selected Directory entry
	Moving the cursor to the left when entering/editing directory entries
	Moving the cursor to the right when entering/editing directory entries
	Deleting selected directory entry
	Adding current caller's number to Directory
	Details of missed calls (to, from, date/time, total number) and of received and dialled calls (to, from, date/time, duration)
	Returning to call list
	Deleting selected call list entry
	Deleting entire call list
	Moving to beginning of next time zone

	Expanding the list of time zones to show all
	Collapsing the list of time zones to show only time zones relevant to the language setting (i.e., countries where the language is spoken)
	Last numbers dialed. Redial selected number
	Selecting call on hold (show caller/callee on-screen)
	Selecting call on hold (show caller/callee on-screen)
	Establishing conference with all calls on hold
	Show next conference participant on-screen
	Show previous conference participant on-screen
	Showing all current conference participants on-screen
	Turning on the casing speaker
	Turning off the casing speaker
	Start recording the phone call or to record a message
	Stop recording
	When the phone is in a call, another incoming call waiting is shown on-screen. If you wish to show the connected call on-screen instead, press this function key.
 	When the phone is in a call with more than one incoming call waiting, the latest arrival is shown on-screen. Press these keys to show other calls waiting on-screen.
	On active screen (i.e., in call etc.): Monitoring calls on other extensions (see Extension Monitoring). The button will only be displayed when there are ongoing calls. Press to show details of calls on monitored extensions.
	Press to show available status messages like firmware update available, reboot required, call completion pending, call forward activated, etc.






Display indications

On activity



	Outgoing call ringing
	Incoming call ringing
	Connected (single connection or conference)

	Call(s) on hold
---	-----------------


On idle screen

	<p>Outgoing identity</p> <ul style="list-style-type: none"> The current outgoing identity is indicated by the lighter line and the green box with the handset symbol:  172. When you call someone, this is your identity for the call. Select a different identity for the next call by pressing ▲▼ on the navigation key.
	<p>Active identity</p> <ul style="list-style-type: none"> Can be called Can be selected as the outgoing identity for making calls by pressing ▲▼ on the navigation key.
	Identity not properly registered. See
	Identity trying to register.
	<p>Identities can be unregistered without removing the registration settings by changing their status to "inactive" on the phone's web interface. Inactive identities are not displayed on the idle screen. They cannot be called or selected as the outgoing identity. To reregister the identity, open the phone's web interface > Configuration Identity (1-12).</p> <ol style="list-style-type: none"> 1. Change the "Identity active" setting to "on". 2. Click on "Re-Register". 3. Click on "Save".

Appendix 2 - Status Messages

Whenever there is a current message concerning the status of the phone, the function key  will be available. Press the function key (or  > 6 Information > 1 Status Info) to open the "Status info" screen. Additionally, some status messages will also be displayed in the status bar; if there is more than one current message, the one with the highest priority will be shown. The messages in descending order of priority:

Status message	Definition
SW ¹	A firmware update is available
Reboot required ¹	Reboot required, for example to have settings changes take effect
SIP disabled ^{1,2}	The phone cannot make calls due to license problems
Error ¹	An error occurred
Low memory ¹	Disk space full
Remote directory is too big ¹	The remote directory is too big to be imported
Not Registered: <account> ^{1,2}	The specified identity/account is not registered
Waiting for <name/number> to be available ²	Waiting for call completion to busy or currently unavailable number
<account> is now available ²	The dialed number is not busy anymore or is now available
Forward when Busy: <name/number>	Call forwarding is on. When your phone is busy, incoming calls will be forwarded to the phone number indicated
Forward after Timeout: <name/number>	Call forwarding is on. When an incoming call is not picked up within the set number of seconds, the call will be forwarded to the phone number indicated
Forward all: <name/number> ²	Forwarding of all incoming calls is on. All incoming calls will be forwarded to the phone number indicated.
Contacting NTP server	Network Time Protocol (NTP) is a protocol for synchronizing clocks over data network. If the connection is interrupted, the phone will not be able to display the correct time.
NTP server unreachable ¹	
HTTP Password not set ¹	No HTTP password has been set
Admin Password not set ¹	No Admin password has been set
Keyboard locked ²	Only numbers designated as emergency numbers can be dialled
DND active ²	Do not Disturb mode is activated
You have messages	There are spoken messages on the mailbox
You have new messages	New (messages on the mailbox)
Old messages	Old (messages on the mailbox)
Missed: <number>	The number of calls you missed since the last time you checked the list of missed calls or turned off the missed call indication

¹ The function key symbol  will be blinking

² The message cannot be deleted from the "Status Info" screen

Appendix 3 - Labeling Function Keys P1-P12

The phone comes with a strip of paper that you can use to label the function keys with LEDs. If you want to type and print the labels, use the interactive Word document in snom's Wiki (<http://wiki.snom.com/D375/Documentation>) in the section "Function Key Label Template".

1. Open the file and click into the cell where you wish to enter a name or other text. Please note:
 - Font size will adjust to the number of characters you enter into each cell.
 - You can change the text alignment from centered to left or right, but make sure that you do not change the size of the cells, or the strip will not fit into the indented space on the phone.
2. Use the arrow keys on your keyboard to move the cursor into another cell or click into the cell. The keys labeled 1 - 6 with the white text fields on the template correspond to the keys labeled P1 - P6 on the **Function keys** page of the phone's web interface; the keys labeled 7 - 12 with the gray text fields correspond to P7 - P12.

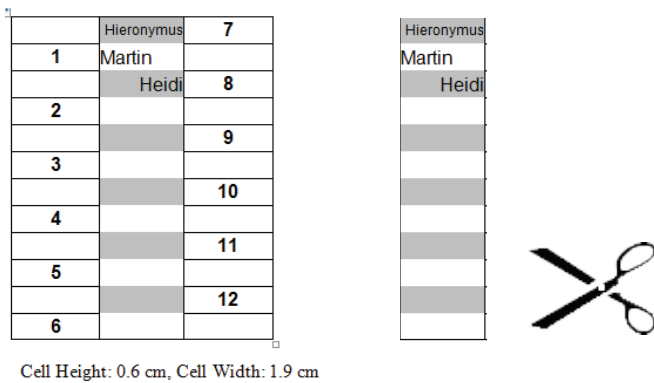


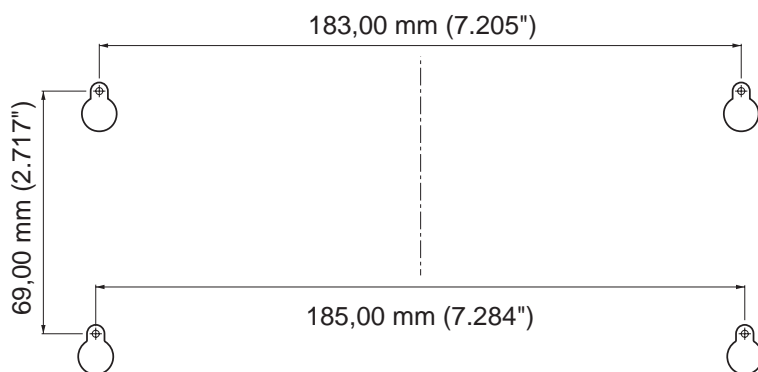
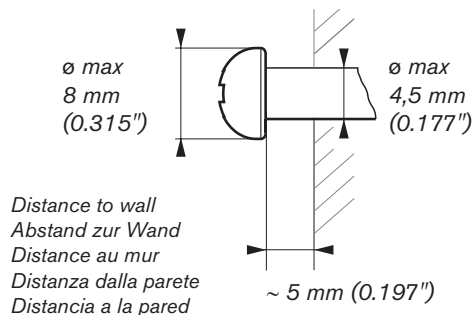
Fig. 1

Fig. 2

3. Print the page in the actual size (100%).
4. Cut out the middle strip with the 12 text fields (Fig. 2, above).
5. Remove the transparent plastic cover between the two rows of function keys with LEDs.
6. Place the paper strip into the indented area and replace the plastic cover.

Appendix 4 - Wall Mounting

Not included in the delivery are the four screws and two screw anchors/molly bolts/wall plugs appropriate for your type of wall.



1. Before attaching the footstand in the position for wall mounting, plug the long end of the handset cord into the connector labelled " " on the bottom of the phone and place the cord in the cable guide (Fig. 1).
2. Insert the snap-fits on the longer ends of the footstand into the holes marked ① (Fig. 2).
3. Tilt the footstand away from you and insert the snap-fits on the shorter ends into the holes marked ② (Fig. 2 and 3). Make sure that all four snap-fits have securely locked in place before mounting the phone on the wall.

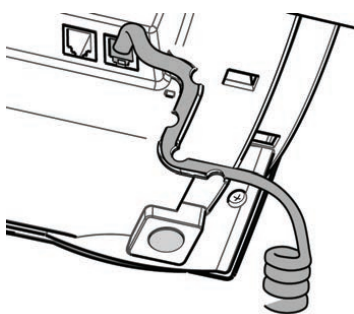


Fig. 1

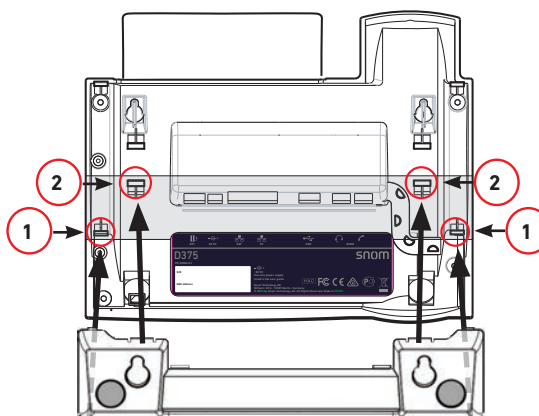


Fig. 2

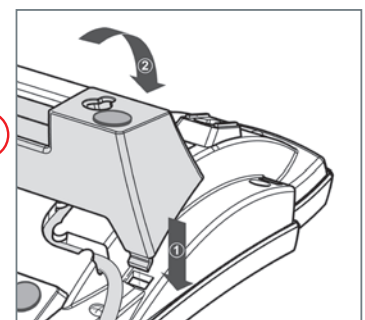


Fig. 3

4. The slots on the footstand for the various cables can also be used when the phone is mounted on the wall. After connecting the phone, form the cables into loops and gently press the long ends into the slots on the footstand. The loops should not be too big, so that they will not hamper the secure mounting of the phone on the wall, and not too small, so that the cables will not be bent or broken (Fig. 4).

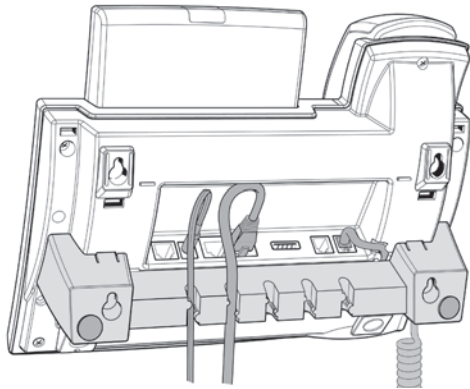


Fig. 4

Note:



To hold the receiver securely in the upright position, we recommend that you rotate the tab of the cradle 180° so that its tip protrudes slightly above the edge of the cradle (see "Rotating the tab of the cradle" on page 11). The small rectangular hole in the receiver casing fits perfectly over the now protruding tip.

Appendix 5 - Programmable Functions

Programmable Functions



Following is a brief description of the function key settings available on the "Function keys" page of the phone's web interface.

Action URL	Action URLs are basically HTTP GET Requests that allow the phone to interact with web server applications. They can be used to send various data from the phone to a web server, like the customized settings stored on the phone; passwords are replaced by empty strings. Action URLs can be triggered by predefined events ("Action URL Settings" page of the phone's web interface) or manually by a pressing a function key that has been programmed to trigger an action.
Auto Answer	With this setting, your phone will automatically accept incoming calls when it is idle. If you leave the text field empty, incoming calls for all configured identities will be accepted; if you enter the number of an identity in the text field, only calls to that identity will be accepted automatically (i.e., 1 for Identity 1, 2 for Identity 2 etc.).
BLF (Busy Lamp Field)	This function key allows showing the status (idle, ringing, held call, busy) of another extension on the key's LED. By pressing the key, it may also be possible to pick up calls ringing on the extension, to dial the extension when the phone is idle, and to transfer an incoming call ringing on your own extension. These functionalities depend on your PBX; for more information, please check snom's interoperability page and the PBX manual. With Asterisk, generally use this feature rather than extension.
Button	This is a function key that is connected to your PBX to perform a task specified in the buttons document. For more information, see the detailed feature description at http://wiki.snom.com/Features/LED_Remote_Control .
Call Agent	This function key can be used by call agents to perform one of three different functions, depending on the value entered in the "Number" text field: <ul style="list-style-type: none"> • Logging onto and off the system. Text field entry: F_CALL_AGENT_LOGGEDIN. • Signaling readiness to accept calls. For this function to work, the agent must be logged in. Text field entry: F_CALL_AGENT_READY. • Announcing that they are working after a call. For this function to work, the agent must be logged in. Text field entry: F_CALL_AGENT_WORKINGAFTERCALL.

Conference Server	<p>This function key can be used for PBX-based conferences and for local conferences on the phone itself.</p> <ul style="list-style-type: none"> • PBX-based conferences. When a conference room or conference account has been created on the server for an individual identity, you can dedicate a function key to calling and monitoring the conference room. Select the identity and the "Conference server" function from the respective drop-down menus and enter the SIP URI of the conference room in the "Number" text field. For information on how to use this key with your particular PBX, please check the PBX manual. • Phone-based conferences. If there is no SIP URI in the text field, pressing the function key will initiate a phone-based conference with all held calls and any active call.
DTMF	<p>This function allows the specification of arbitrary key sequences (allowed digits: "0-9", "*", "#", "A-D" and flash: "!") which will be sent via DTMF when this key is pressed during an active call.</p>
Extension	<p>This function key allows showing the status (idle, ringing, held call, busy) of another extension on the key's LED. By pressing the key, it may also be possible to pick up calls ringing on the extension, to dial the extension when the phone is idle, and to transfer an incoming call ringing on your own extension. These functionalities depend on your PBX; for more information, please check snom's interoperability page and the PBX manual. With Asterisk, generally use BLF rather than this function.</p>
Forward to	<p>All incoming calls will be forwarded to the number (extension or external phone number) specified under "Number". The key is used to turn forwarding of all calls on and off; the red LED lights up when the function is turned on.</p>
Intercom	<p>Pressing a function key mapped with "Intercom" will establish a two-way connection to the extension specified in the "Number" text field; that extension must have enabled intercom reception on its web interface (Advanced Settings > Behavior tab > Phone Behavior > Intercom Policy "only in idle" or "always").</p> <p><u>"Intercom Policy" settings on the phone being called via intercom:</u></p> <p>Always: The intercom call will connect to the called phone automatically; if the called phone is in a call, that call will be placed on hold.</p> <p>Only in idle: The intercom call will connect to the called phone automatically if the called phone is idle. If it is in a call, the incoming intercom call will be announced as call waiting.</p> <p>Off: Pressing the intercom key will call the extension specified in the "Number" text field where it will be treated like any other incoming call, i.e., ring, be forwarded, etc.</p>

<p>IVR</p>	<p>This function key can be used for regular calls to an extension that is reached via an IVR or auto attendant and a number of voice prompts where the caller has to make a selection by pressing a key after or during the prompt. If you know which keys need to be pressed in which order in order to reach the desired extension, the entire process can be automated and considerably speeded up.</p> <p>The syntax for the "Number" text field entry is <code><phone_number>;dtmf=<n>,<n></code>, etc. The angle brackets <code><></code> including their content are placeholders for the variables that you must replace by the actual characters. The comma represents a pause of one second, and n represents any number key on the alphanumeric keypad.</p> <p>Example: The number to dial is (917) 555-3814. When the connection has been established, the caller will hear three prompts. After the first prompt, he must press key 1; after the second prompt, he must press 3; and after the third prompt he must press 1 to reach the desired extension. The entry in the "Number" text field must look like this: <code>9175553814;dtmf=1,3,1</code>.</p> <p>Usage: When the phone is in idle mode, press the key to dial the number. As soon as the connection has been established, the phone will automatically send the DTMF tones associated with the alphanumeric keys 1, 3, and 1 with a one-second pause between them.</p> <p>(If the function type "IVR" doesn't work on individual phones, try "Speed dial" with the above description.)</p>
<p>Key Event</p>	<p>When this key type is selected, a drop-down menu opens under "Number". For the available selections, see the following section "Key Events".</p>
<p>Line</p>	<p>Default setting for all freely programmable function keys. Incoming calls will go to the first free "line" key, and outgoing calls will use the first free line key.</p> <p>Line keys can be used to make outgoing calls with the identity selected from a particular key's "Context" menu and to have incoming calls for that identity going to that particular function key. If the key is busy, the incoming call will go to the first free line key.</p>
<p>Multicast Page</p>	<p>This function key enables the phone to send multicast streams to IP multicast group addresses. The multicast IP address and port are entered in the "Number" text field in the format <code><multicast IP address>:<port></code> (e.g., <code>239.255.255.245:5555</code>). The angle brackets <code><></code> including their content are placeholders for the variables that you must replace by the actual characters.</p> <p>Please note: This key is for sending multicast streams. To allow reception of multicast streams, multicast support must be enabled on the phone's web interface, Advanced settings > SIP/RTP tab > Multicast by setting Multicast Support to "on". You must also enter the IP addresses of the multicasts you wish to receive in ascending order of priority, 10 being the highest. In case of simultaneous multicasts, the one with the highest priority at any given time will override the others.</p>



Park Orbit	<p>If a park orbit has been set up on the server, a function key mapped with the Park Orbit functionality can EITHER serve to park calls on the park orbit OR to park as well as retrieve calls, depending on the type of server used. Select the server type on the Configuration Identity page of the context identity, SIP tab, from the "Server Type Support" drop-down menu. Enter the "phone number" of the Park Orbit and/or the park position in the text field of "Number", for example orbit1@my.proxy.com or 700@my.proxy.com etc.</p>
Presence	<p>If supported by your PBX, the LED of this function key will reflect the presence status (ringing, busy, available, etc.) of the extension specified in the "Number" text field. The function key can also be used to dial the extension, usually when the destination signals availability.</p>
Push2Talk	<p>Pressing the function key mapped with "Push2Talk" will establish a two-way connection to the extension specified in the "Number" text field for as long as the key is pressed; that extension must have enabled intercom reception on its web interface (Advanced Settings > Behavior tab > Phone Behavior > Intercom Policy "only in idle" or "always").</p> <p>On 870 phones, this key type will establish an Intercom connection.</p> <p>On 820/821 phones, this key type is only available on keys P2 and P3.</p> <p>On 760 phones, this key type is not available on key P4.</p>
Shared Line	<p>Bridged lines (Bridged Line Appearance (BLA)) are shared by two or more users; when one of them is using the line, the others are blocked from using it. This key type makes it possible to monitor whether a shared line is busy (the LED is lit) or not (the LED is off). The URI of the shared line is set under "Number".</p>
Speed Dial	<p>Besides using the "Speed Dial" page on the web interface to program speed dial numbers, you can also put the functionality on the freely programmable function keys with LEDs to be able to speed dial frequently used and/or long numbers without having to enter the complete phone number.</p> <p>Enter one phone number with any required prefixes (area code, country code, operator/auto attendant, etc.) in the "Number" text field for any given freely programmable function key with LEDs. Example: 0019175557813.</p> <p>Or enter a partial phone number (country, area code etc.) and complete the number on the dialog screen. In this case, enter the partial number, followed by a semicolon and "number=incomplete" in the text field. Example: 001917555; number=incomplete.</p>

Starcode	<p>Making SIP calls without audiovisual indication on the phone user interface (PUI).</p> <p>Examples for using this feature:</p> <ul style="list-style-type: none"> Controlling settings on the PBX with dedicated keys that turn PBX functions on and off. The available functions must have been set on the PBX and they must be accessible from the phone, typically by dialing a star code. Phone function keys can be dedicated to activating and deactivating call forwarding and DND mode, transferring, picking up, and parking/unparking calls, etc. Depending on the settings on your PBX, you may either have to dedicate one key each for activating and deactivating a given function or to dedicate one key for both activating and deactivating the function. Silent alarms or emergency calls. <p>If the standard behavior of this function key type does not meet your requirements, it is possible to customize it. Copy the standard XML configuration of the key from the Settings page of the phone's web user interface (WUI) and edit it to suit your needs. Then paste the edited XML into the "Number" text field and change the key's type to "Xml definition".</p>
Transfer to	<p>Transferring active calls and ringing incoming calls to the number set in the "Number" text field. Pressing the key once will transfer the active or ringing call.</p> <p>If the text field is empty, pressing the key will put the "Enter number" screen on the display. Enter the number and press  /  to complete the transfer.</p> <p>For further information, see the article "Transferring calls" in the chapter "Using the phone".</p>
Voice Recorder	<p>The phone does not record the voice streams at all; they must be recorded on the PBX where a recording account must be set up. Pressing the key when the phone is idle will establish a connection between the phone and the recording account, making it possible to record spoken memos, meetings, or conferences. Pressing the key during a call will establish a three-party conference with the two phones and the recording account as participants. Please be advised that you must respect the legal restrictions of your country for recording calls with or without the participants' knowledge and permission.</p>
Xml Definition	<p>Copy the XML sub tag of the action(s) you want the key to perform into the text field. The currently available settings can be found here: http://wiki.snom.com/Features/Mass_Deployment/Setting_Files/XML/XmlSubTags.</p>

Key Events

ABS	Address book search (OCS accounts)
Accepted Calls	(Accepted List) List of calls accepted on the phone
Call Lists	Call history list (missed, received, dialed calls)
Change active ID	List of registered SIP identities
Conference	Starting a conference

Contacts	Contact List, where the Presence State of selected users can be seen (online, busy, offline)
Directory	Internal phone directory
DND	Turning "Do not disturb" function (DND) on an off. When mapped to a function key with an LED, the LED will light up when DND is turned on.
Favorites	Favorites list
Forward all	All incoming calls will be forwarded to another extension or an external phone number. After turning call forwarding on with this key, the display will prompt you to enter - or confirm/change a previously entered - forwarding number.
Help	FW versions lower than 8: Phone's IP address, MAC address, and firmware version. FW 8 and higher: Phone's IP address and the URI to Snom Wiki. IP address, MAC address, and firmware version can be found in Settings > 6 Information > 2 System Information.
Hold	Placing the active call on hold
LDAP Directory	Allows the user to look up a remote directory while dialing. Once set, this pressed key will open up the Directory Search window. If LDAP is setup, corresponding matching entries as returned by the sever will be shown. If LDAP is not used and and presence_lookup_number setting is turned on, the contact matches will be shown. The default edit mode is alphanumeric in this state.
Logoff Identities	Caution: This option will delete all account settings!! Usage: Mainly useful for call centers with frequently changing users.
Menu	Calling up the settings menu of the phone
Missed Calls	Missed call history list
Monitor Calls (not available on Snom 300)	When the phone has been programmed to monitor extensions and do/allow call pickup, a key can be mapped to show the list of monitored extensions and do call pickup from the monitor. FW v8.7.2 and higher: The list will show only active extensions (i.e., busy or ringing). When there is no activity on any monitored extensions, the list is empty.
Mute	Mutes/unmutes the microphone (handset, speakerphone, headset) during active call
Next Outgoing ID	Selecting the next identity as the outgoing identity
Presence State	Providing access to a list where the Presence state of each registered SIP Identity can be defined (online, offline, busy, invisible).
Prev. Outgoing ID	Selecting the previous identity as the outgoing identity
Reboot	Rebooting the phone

Record	The phone does not record the voice streams at all; they must be recorded on the PBX or other external device. Pressed during a call, the key informs the PBX to start and stop the recording of the audio stream on the PBX. While the call is being recorded, the recording symbol ● will either blink on the display or be displayed, in red ●, in the status line, depending on the phone type; if the function key has an LED, the LED will be lit throughout the recording. Please be advised that you must respect the legal restrictions of your country for recording calls with or without the participants' knowledge and permission.
Redial	Dialed call history list (last call at the top)
Retrieve	Retrieves new mailbox messages. This key becomes active when the phone has received a message waiting indication (MWI) with a valid mailbox URI.
Status Messages	Currently available status messages (see Appendix 2)
Transfer	<p>Transferring the active call or an incoming call that you do not want to pick up. See the article Transferring calls in the chapter Using the phone.</p> <p>Pressing the key will put the "Enter number" screen on the display. Enter the number and press  /  to complete the transfer.</p>

Appendix 6 - Wireless Module (D375 only)

Using the Phone with a Bluetooth Headset

The phone has a built-in wireless module that is compatible with Bluetooth v4.0 + EDR, class 2, headsets.

Note: Please test any headset you want to use with a Snom phone prior to purchasing the headset. Snom cannot guarantee that any headsets will be compatible with Snom phones. In particular, but not excluding other possible factors, the software on third-party headsets may have been modified unbeknownst to Snom, resulting in restrictions to functionality up to and including loss of compatibility with the Snom phone.

Currently, one audio/video Bluetooth or Bluetooth-compatible device can be paired with the phone. The phone supports one headset at a time. When more than one headset is connected to the phone, the devices used in descending order of priority will be Bluetooth headset -> USB headset -> wired headset via RJ connector.

Pairing

1. Turn on the headset to make it detectable. You may need to put some headsets into pairing mode to make them detectable.
2. Open the phone's Settings menu -> 1 Preferences -> 7 Bluetooth (Fig. 1). When there are no paired or connected devices, the setting will say "No devices available" (Fig. 2).

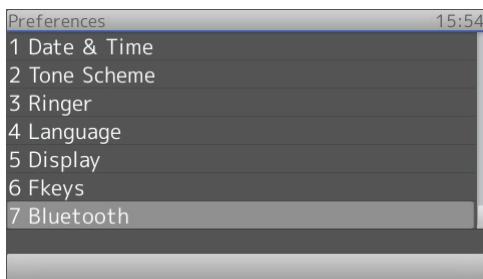


Fig. 1

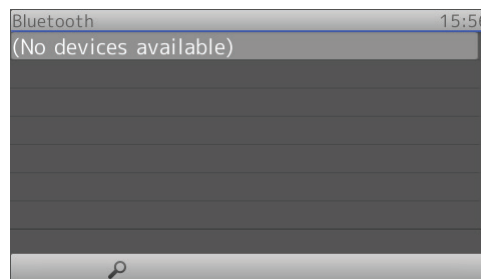




Fig. 2

3. Press the context-sensitive function key underneath the symbol of the magnifying glass  to initiate discovery mode. The display now says "Discovering. Please wait..." (Fig. 3).

If devices are detected, they will be listed on the display in the List of discovered devices, one device per line (Fig. 4). Each line contains a symbol for the type of device, the make/model of the device, and its MAC address. Currently only the type Audio/Video is supported, indicated by the headset symbol.

If no device is found or the headset you want to pair is not among the listed ones, make sure that the headset is detectable, i.e., turned on and within range, then press the function key underneath the magnifying glass  again to repeat the search.

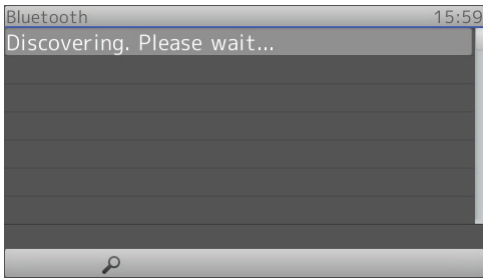


Fig. 3

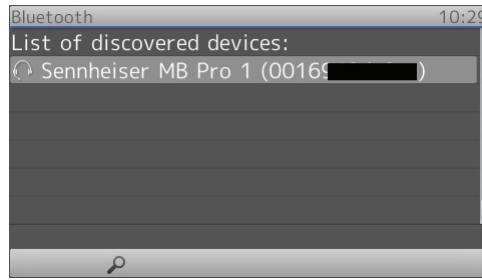






Fig. 4

4. When more than one device is listed, select one of them with the up and down arrows on the navigation key . 
5. When the headset you wish to pair is highlighted (Fig. 4), put the headset into pairing mode and press the OK key  on the phone. Please, refer to the headset's manual for further information on putting the headset into pairing mode.

The display will show the message "Pairing. Please wait..." (Fig. 5). When phone and headset have been paired, the display will show the connected headset with the audio/video symbol, make and model, and MAC address (Fig. 6). When headset mode on the phone is turned on by pressing the headset key , the BT headset symbol  is shown in the status line of the display (Fig. 7 on page 97).

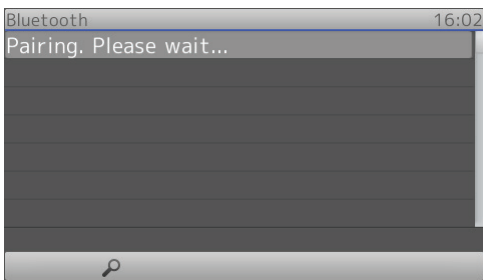


Fig. 5

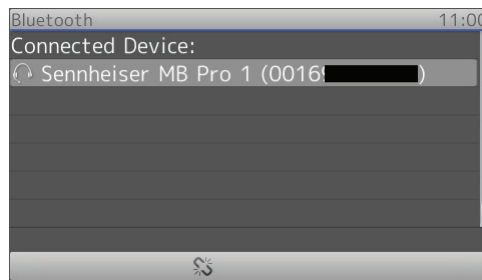



Fig. 6

Unpairing

To be able to use a different headset with the phone, the currently connected headset must be unpaired from the phone first. This can be done whether the headset is turned on or off.

1. Open the phone's Settings menu -> 1 Preferences -> 7 Bluetooth.
2. Press the function key underneath the "Unpair" symbol  (Fig. 6).

Disconnecting a Paired Headset

When the headset is turned off or moves out of transmission range of the phone, or when a different audio device (handset, speakerphone) is selected on the phone, the headset is disconnected but it will remain paired with the phone.

Reconnecting a Paired Headset



When the connection to the headset has been severed, the phone will attempt to reconnect with the headset:

- Every 10 seconds during the first 10 minutes. Please note that reconnecting may take a little longer than 10 seconds if the connection cannot be established immediately.
- Every 60 seconds if the phone could not establish a connection within the first 10 minutes of trying.

Note: The headset may also try to reconnect to the phone.

Reconnecting manually

If automatic reconnection is unsuccessful or if you do not want to wait for it, you can also use the manual method.

1. Open the phone's Settings menu -> 1 Preferences -> 7 Bluetooth.
2. If necessary, use the down-arrow on the navigation key  to select the headset in the list of paired devices (Fig. 6), and press the OK key .

Using a Bluetooth Headset with the Snom Phone

Please, also consult the headset's manual for more information on how to use it. The headset behavior described in the following description applies to three tested headsets with the firmware on the headsets and the phone at the time. The behavior with other firmwares and other headsets may be different.

Selecting Ringer Device for Incoming Calls



Use the web user interface of the phone to select whether you want incoming calls to ring on the phone, on the headset, or on both.

Note: To be able to accept calls on the headset, the phone must be running headset mode (see next section "Turning on Headset BT Mode"). You can accept calls directly on the headset or via the phone regardless of the selected ringer device.

Open the phone's web user interface -> **Preferences**, section **General Information / Ringtone Defaults** and select one of the following settings from the drop-down menu of **Ringer Device** for Headset:

- **Use Speaker.** Incoming calls ring on the casing speaker of the phone.
- **Use Headset.** Incoming calls ring on the headset only.
- **Use Headset and Speaker.** Incoming calls ring on the casing speaker of the phone and on the headset.

Turning on Headset BT Mode

Press the headset key  on the phone. The key's LED lights up, indicating that headset mode is now the active audio mode for calls. Additionally, headset mode is indicated by the headset symbol and the letters "BT"  on the left side of the status line (FW v8.7.6 and higher) (Fig. 7).

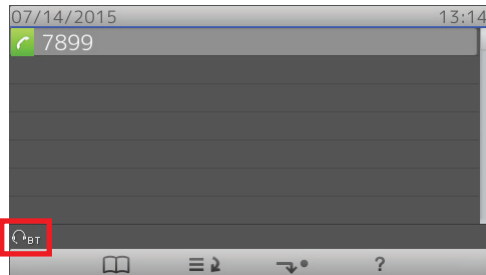


Fig. 7


Making Calls in Headset BT Mode

Bluetooth headsets do not support off-hook on idle. Therefore the voice dialing function on the headset must be activated for dialing, except for tone schemes using local DTMF tones, like the USA.

Turning on Voice Dialing

On three tested headsets, the voice dialing function is activated by pressing the call key for approx. 1 to 2 seconds until you hear the "voice dial" message or signal (pressing the key for too long resulted in turning the headset off). Please, refer to the headset's manual for further information.

Dialing


You can either press the call key on the headset or the OK key  on the phone to begin dialing a phone number entered manually or selected from the directory or a call list.

- Tone schemes using local DTMF tones (e.g., USA): The voice dial function is not required. Enter the number on the phone's keypad and briefly press the call key to dial.
- Other dialing methods.
 - Tone schemes without local DTMF tones (e.g., Germany): Enter the number on the phone's keypad and long-press the headset's call key to voice dial the number or press the phone's OK key / to dial.
 - Directory and call lists: Select a contact in the directory or a call from a call list and long-press the headset's call key to voice dial the number or press the phone's OK key to dial.

Accepting Calls in Headset Mode



Briefly press the call key on the headset or press the OK key  on the phone.

Ending Calls

Briefly press the headset's call key or press the Cancel key  on the phone.

Adjusting Headset Volume

On the phone

When the headset is the active audio mode, as indicated by the headset symbol  in the status line and by the bright green LED on the headset key, you can use the phone's volume key  to set the call volume for the headset. The phone will save the setting for calls with any headset. The next time the BT headset is connected or reconnected to the phone and headset BT audio mode is activated on the phone, the phone will transmit the saved volume setting to the BT headset, overwriting any different setting on the headset.

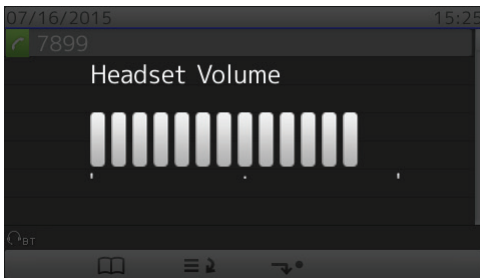


Fig. 8

On the headset


Use the volume key(s) on the headset to adjust the volume immediately.

When headset BT mode is the active audio mode on the phone, the new volume setting will also be transmitted to the phone and saved.


When headset BT mode is not the active audio mode on the phone, the headset will not transmit the new volume setting to the phone; the next time audio is activated from the phone, the headset volume setting will be overwritten by the volume setting stored on the phone.

Muting the Microphone

During a call, you can mute/unmute the headset's microphone by pressing the Mute button on the headset. Please, refer to the headset's manual for further information.

With some headsets, you can also press the Mute key  on the phone. If you wish to use this feature, please test any headset you want to use to see if it works.

Mute microphone indication

- On the phone. The symbol of the muted microphone  is shown in the status line next to the "BT" symbol (Fig. 9). When the microphone is unmuted, the symbol disappears. Additionally, the red LED on the mute key is on. When the microphone is unmuted, the red LED is turned off.

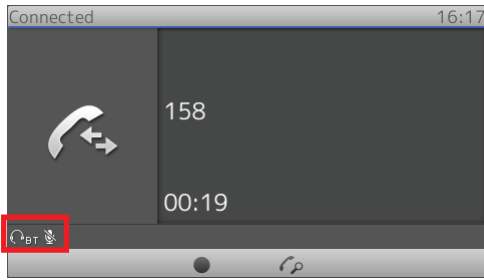


Fig. 9

- On the headset: Message or other indication that the microphone is muted. Please, refer to the headset's manual for further information.

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