snom



User Manual IP Phone D812

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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 5 - GNU General Public License" on page 139), provided they, in turn, make it available to everyone else with the same licensing agreement. Please go to https://www.snom.com/en/footer/discover-snom/gtc/source-code-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.

The nameplate is located at the bottom or rear of the product.

Safety instructions

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

- This device is designed for professional use.
- **Warning**: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- **Warning**: The product included (ITE) in this manual is to be connected only to PoE networks without routing to the outside plant.
- The socket outlet for the power adaptor must be near the equipment and easily accessible.
- Mount the device only at heights not exceeding 2m.
- 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 (see "Product specifications" on page 11). 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, or 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 (Safety Extra Low Voltage) 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 and UK legislation. The declaration of conformity can be downloaded at https://www.snom.com/conformity.

You can download the declaration of conformity at www.snom.com/conformity.

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

This phone is FCC Class A verified and meets US health, safety, and environmental standards.

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

Additional Information U.S.A.

FCC Part 15

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

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Privacy of communications may not be ensured when using this phone.

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

To ensure safety of users, the FCC/ISEDC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product.

This product has been tested and found to comply with the FCC/ISEDC criteria. The handset may be safely held against the ear of the user.

FCC Part 68

Consumer Information

- a. This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.
- b. An applicable certification jacks Universal Service Order Codes (USOC) for the equipment is provided (i.e., RJ45C) in the packaging with each piece of approved terminal equipment.

- c. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant LAN cable (RJ45) and modular plug is provided with this product. An RJ45 jack should normally be used for connecting to the SIP equipment through the LAN cable. See installation instructions for details.
- d. If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- e. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- f. Should you experience trouble with this equipment, please contact

Snom Technology GmbH 1 (339) 227-6160 (select option 2)

for repair or warranty information. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

- g. Please follow instructions for repairing if any (e.g. battery replacement section); otherwise do not alternate or repair any parts of device except specified.
- h. Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.
- i. **NOTICE**: If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this device does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.
- j. This equipment is hearing aid compatible.

NOTICE: According to telephone company reports, AC electrical surges, typically resulting from lightning strikes, are very destructive to telephone equipment connected to AC power sources. To minimize damage from these types of surges, a surge arrestor is recommended.

Additional Information Canada

Industry Canada

This Class A digital apparatus complies with Canadian requirements: CAN ICES-003 (A)/NMB-003(A). Cet appareil numérique de la classe A est conforme à la norme CAN ICES-003 (A)/NMB-003(A) du Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Privacy of communications may not be ensured when using this telephone.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

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

Product specifications

- Safety: IEC 62368-1
- **Ethernet:** 2 x IEEE 802.3 / 1 Gigabit Ethernet switch
- **Power:** Power over Ethernet (PoE), IEEE 802.3af, Class 3. If PoE is not available, the following power adapter (not included in delivery) can be ordered separately:
 - Mass Power, model NBS12E050200UV (U.S.)
- Connectors:
 - 2 x RJ45 (Ethernet): 1 x LAN, 1 x PC
 - 2 x 4P4C for handset and optional wired headset (headset not included)
 - 1 x RJ12 for Snom EHS Advanced
 - 1 x USB 2.0, type A
 - 1 x coaxial power connector DC 5V (power adapter not included)

Disposal of the device



This device is subject to European Directive 2012/19/EU 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

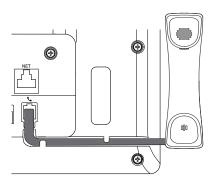


- Base phone unit
- Footstand
- Handset
- Handset cord
- Ethernet cable
- Quick Installation Guide, GNU General Public Licence

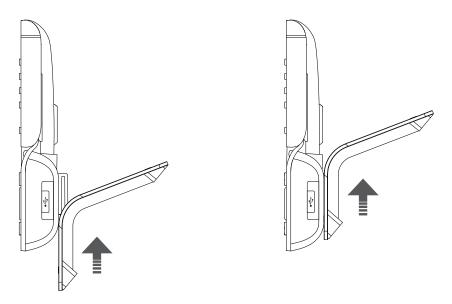
Attaching and detaching the footstand

The footstand can be attached at two different angles: 46° and 28°.

Note: Before attaching the footstand to the phone, plug the long end of the handset cord into the connector labelled " on the back of the phone and place the cord in the cable guide.



- 1. Place the top of the grooves on the footstand below the slideguides on the back of the phone.
- 2. Push the footstand upwards onto the slideguides until they lock in place.



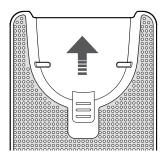
- 3. Plug the short end of the handset cord into the connector on the handset.
- 4. Place the phone on an even, horizontal surface.

Wall mounting

See "Appendix 3 - Wall Mounting" on page 130.

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 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.







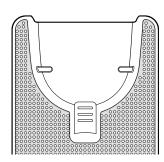
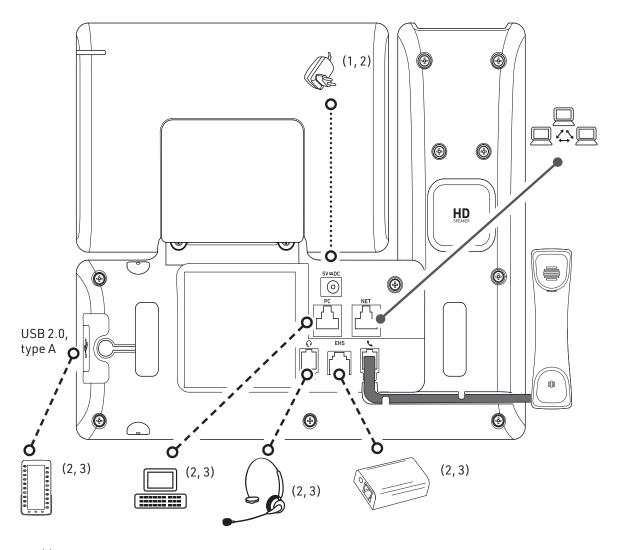


Fig. 1

- 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 top of the tab now protrudes slightly above the inner edge of the cradle (Fig. 3), so that it will hold the handset more securely.

Connecting the phone



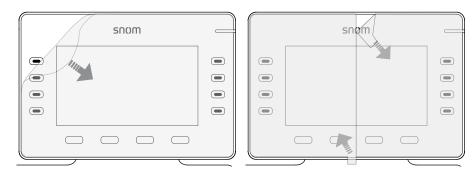
- (1) If PoE not available •·····•
- (2) Not included in delivery
- (3) Optional •----•

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 the separately available 5V DC power adapter (see "Product specifications" on page 11).

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

Removing the protective film from the display

The display is covered by a protective film, either by a one-piece or a two-piece film. Gently pull the tab(s) to peel it off.



One-piece film

Two-piece film

Note: The display's cover is held in place magnetically for easy removal when necessary for customization or replacement. If the protective film is peeled off with too much force, the cover may become dislodged from the display. Simply put it back into its proper position.

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
 - Connecting the base station of your headset via the Snom EHS Adapter.
 - Connect the plug labeled D3xx/D785 on the 2xRJ12 cable that came with the Snom EHS Adapter to the jack marked EHS on the phone, and the plug labeled EHS box to the Snom EHS Adapter's RJ12 jack. For more information, see the illustrated EHS Advanced Quick Installation Guide at https://service.snom.com, Snom products, Accessories, EHS Wireless Headset Adapter.
 - 2. Connect the EHS box to the headset's base station with the 2xRJ45 cable also provided with the Snom Advanced.
 - 3. Connect the 4P4C/4P4C audio cable that came with the headset to the phone's RJ audio jack labeled . Connect the other end to the headset's base station. For more information, please refer to the headset's user guide.
 - Connecting the headset to the phone via a Bluetooth-compatible adapter.

Insert the adapter into the USB port of the phone. See also the manual of the headset.

Note: The default settings for USB headsets are *VID=0a12:PID=100d:H00K=38/1*.

If you are using a different headset, enter the parameters of the headset manually on the phone's web interface at > Advanced > Audio > text field of Audio parameters. Click 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, and 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 101.

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 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 \wedge and \vee on the navigation key and save with .



2. Next, you will be prompted to enter a new HTTP username for accessing the phone's web interface.







- Use the keypad to enter a new HTTP username, and then press (for keypad text entry instructions, see Fig. 2 on page 27 and page 28).
- 3. Next, you will be prompted to enter a new HTTP password for accessing the phone's web interface.



Use the keypad to enter a new HTTP password, and then press The password must be at least six alphanumeric characters.



4. Next, you will be prompted in the language of your choice to select a time zone. This affects the time shown on your display.

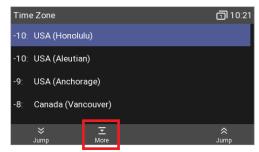


Fig. 1



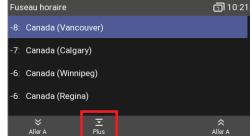


Fig. 2

Fig. 3

- ∘ Press ∧ or ✓, respectively, on the navigation key to move up or down the list one item at a time; press the function key underneath ⋄ or ⋄, respectively, to jump to the beginning of the next or the previous time zone.
- Press the function key underneath = (Fig. 2) to show only those time zones where the selected phone language is spoken. If you have selected English, all time zones are shown.
- \circ If you have selected a time zone other than English, press the function key underneath \equiv to show all time zones and all countries or cities within the individual time zones, if there are any (Fig. 3).
- Press to save the selected time zone, indicated by the blue bar.
- 5. 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.

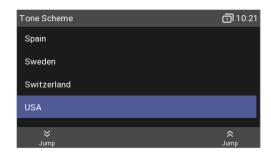
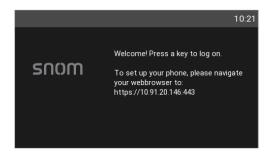


Fig. 4

- \circ Press \wedge or \checkmark to move up or down the list one item at a time.
- Press * to jump to the last country on the screen; when the last country is selected, press
 to jump to the last country on the next screen.
- Press to jump to the first country on the screen; when the first country is selected, press
 to jump to the first country on the preceding screen.
- Press to save the selected country's tone scheme.
- 6. The display shows the "Welcome" screen. Press any key to log on.



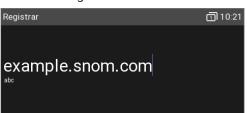






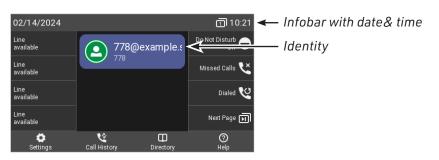
Note: See "Entering numerals, letters, special characters, and symbols" on page 28 on how to enter numbers and letters.

8. Enter the registrar and save with



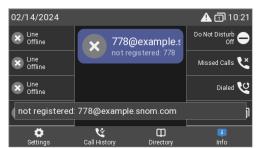
9. If required, enter the password received from your Internet service provider or administrator and press

After successful registration you will see the identity 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 or and the phone is not working, 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 41 for more information.
- 2. Open **Setup** > **Identity 1** and enter any additional login information you have received from your provider. See "Identities/accounts" on page 101 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 105.

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

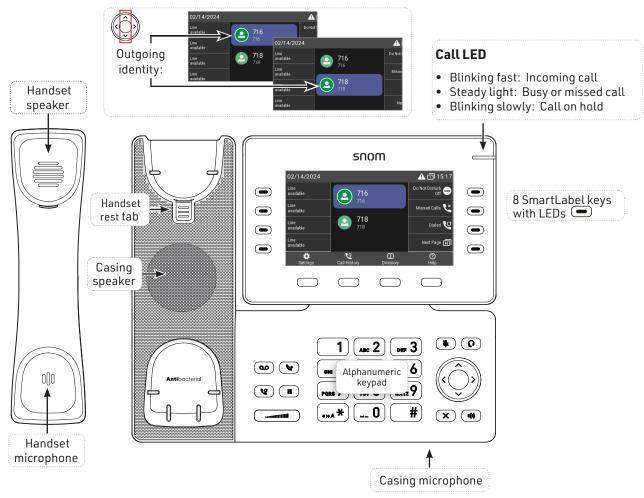
Default formats:

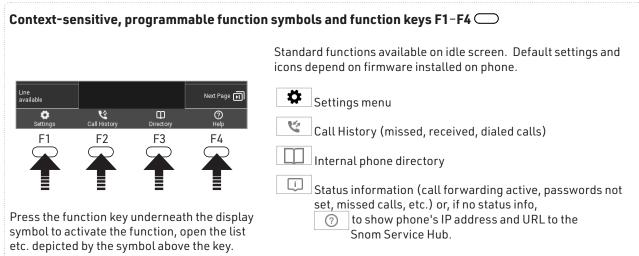
- **Time**. 24-hour clock, e.g. 17:35. Changing to AM and PM formats: See "Time" on page 105.
- **Date**. US date format MM/DD/YEAR, eg. 11/23/2024. Changing to European format DD.MM.YEAR, e.g. 23.11.2024: See "Date" on page 104.

Getting to know your phone

At a glance

The factory settings at a glance:





Audio control keys

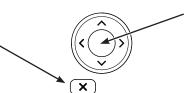


Adjusting the volume

- of the ringer when the phone is idle or ringing
- of the handset/casing loudspeaker when in a call
- Mute/unmute microphone
- Toggling between handsfree and handset mode. Press to dial number and accept calls on speakerphone.
- Headset mode on/off

Navigation keys

- · Canceling actions & input, and returning to previous screen
- Terminating calls on speakerphone and in headset & handset modes



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



From idle screen:

Select outgoing identity

In other contexts (settings, lists):

Navigate up/down



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



From idle screen:

Missed calls

In other contexts: Navigate/space right

Dedicated, customizable function keys

- MWI key with LED
 - LED is lit when message is waiting on mailbox (if mailbox supplied on PBX)
 - Press key to listen to message(s)
- Redial
- Transfer
- (III) Hold

SmartLabel keys P1-P32, self-labeling, with LEDs



Default setting: Line

• Fast-blinking LED: Incoming call. Press blinking key or

• Steadily lit LED: In call

• Slow-blinking LED: Call on hold

02/14/2024

P1-P8

P9-P16 P17-P24

㉑

P25-P32

Default page keys: P8, P16, P24, P32 Next Page 🗊

15:17

Star key •••*

- In editing mode: Press briefly to type *
- On idle screen: Press for 3 seconds to lock/unlock the keypad

LED indicators

Call indicator

The bright-red LED situated on the top right corner of the phone indicates incoming, ongoing, held, and missed calls. LED status indications:

- Blinking rapidly when a call is coming in.
- Glowing steadily when dialing, when in a call, and when you have missed a call. To turn the LED off after a missed call, press the right arrow > on the navigation key to view the **Missed calls** menu and simultaneously turn off the LED.
- Blinking slowly when you have put a call on hold.

Function key LEDs

SmartLabel keys P1-P32

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:

- 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;
- are 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 and monitoring of extensions is enabled on both phones, the LED:

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

MWI key : Has a red LED that lights up when there is a new message in the mailbox.

Mute key : Has a red LED that lights up when and as long as the microphone is muted.

Speakerphone and headset keys: Have green LEDs that light up when and as long as speakerphone or headset mode, respectively, are turned on.

Hard keys

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; the programmed functions are available when the phone is in idle mode. For more information, see "Configuring the function keys" on page 81. For the factory default settings, see "At a glance" on page 22.

You cannot change the functions that are available when the phone is active, e.g., 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 81 for further information. Factory settings:

	Naviga	ation key
	^	On idle screen: Press to select identity for outgoing calls
	~	In other contexts: Moving up and down lists one item/button at a time
	<	On idle screen, press to open list of received calls.
(())		• In text fields, press to move the cursor to the left one character at a time.
		On idle screen, press to open the list of missed calls and simultaneously turn off the missed call LED
		 In text fields, press to move the cursor to the right one character at a time.
	• On	idle screen: Redial (view list of dialed calls).
(Thu	• Pre	ess to accept calls on speakerphone and in headset mode.
•	• Pre	ess to confirm actions/settings and return to preceding screen.
×	• Pre	ess to terminate calls on speakerphone and in headset and handset modes.
	• Pre	ess to cancel actions and return to preceding screen.

Dedicated keys

The factory settings is printed on the key. Other functionalities can be programmed onto them. See "Configuring the function keys" on page 81 for more information.

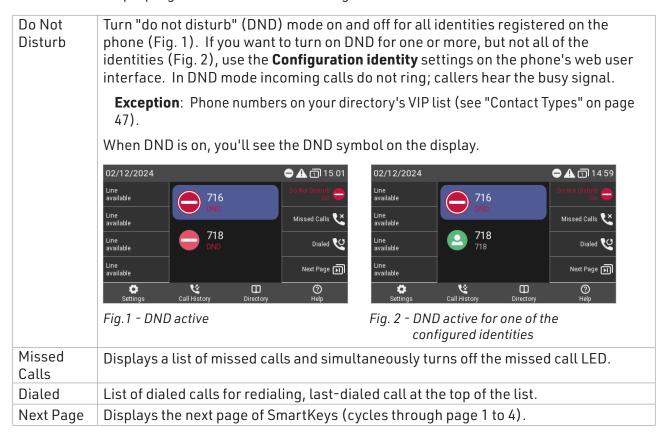
a	Message Retrieve key. The LED of the key is lit when a new message is waiting on the mailbox. Press the key to retrieve messages.
•	Call transfer of active call. See "Transferring calls" on page 69 for further information.
¥	Redial. Press to show the dialed calls, in descending order with the last one at the top of the list.
II	Hold key. See "Hold" on page 66 for further information.

Audio Control Keys

	Press the right or left edge of the key to adjust the volume of the ringer when the phone is idle or ringing of the loudspeaker in handset, casing, or headset, respectively, when in call
%	Muting and unmuting the microphone
1(1)	 Toggling between handsfree and handset mode Dialing numbers on speakerphone Accepting calls on speakersphone
O	Toggling between headset and handset modes. 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. To return audio to the headset, press again. The headset symbol will reappear in the status line. You can then place the handset in the cradle without ending the call.

SmartLabel Keys (freely programmable function keys with LEDs)

These 32 SmartLabel keys — four each on the left and right side of the display – control the SmartLabels (see "SmartLabels" on page 32). They can be programmed and labeled on the phone and on the **Function Keys** page of the phone's web interface. Four different functions for each key can be set on four "pages." For information on how to map functions onto these keys, see "Configuring the function keys" on page 81. The factory default setting is line, except for keys P5-P8 which are preprogrammed with the following functions:



Alphanumeric Keypad

Input modes and navigation

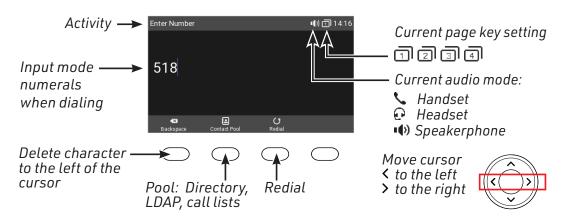


Fig. 1

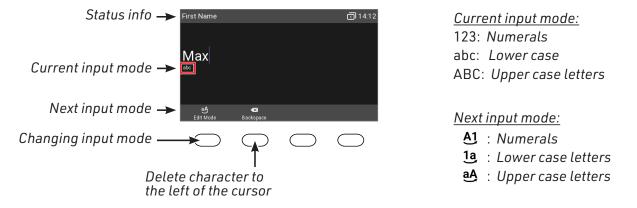


Fig. 2

Press any key on the alphanumeric keypad or pick up the handset to open the "Enter Number" screen. When dialing a number (Fig. 1), the input mode is always numerals. When editing directory entries (Fig. 2) and identities, the current input mode is indicated in the line underneath the cursor. Press the left function key underneath the display to switch to the next input mode.

Text underneath cursor = current input mode	Press function key to switch to next input mode	Next input mode
123	<u>1a</u>	abc
abc	aA .	ABC
ABC	<u>A1</u>	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 overwrite 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. In input modes lower and upper case 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 lower case 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. In input modes lower and upper case 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 lower and upper case 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 following table. Press "1" as many times as indicated:

1x		2x	+	3x	@	4x	1	5x	:	6x	,		
7x	?	8x	!	9x	-	10x	_	11x	/	12x	١	13x	(
14x)	15x	;	16x	&	17x	%	18x	*	19x	#		
20x	<	21x	=	22x	>	23x	\$	24x	[25x]		

Display layout

In idle mode 02/14/2024 02/14/2024 15:1 🕝 🛦 🖒 Info/status bar -**A** 🗊 15:1 716 Configured identities ine vailable Smart Smart labels labels Missed: 6 Next Page 🛐 Function key line Ф Ф Status Message Context-sensitive function key symbols

Fig. 1

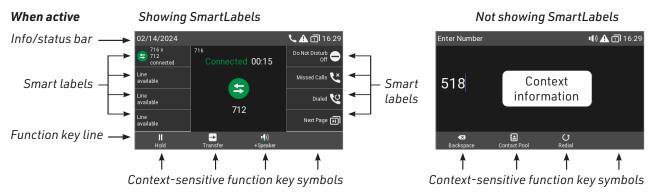


Fig. 2

In idle mode

In idle mode, the display presents the following information:

Info/status bar

- Date
- Time
- Screen icons that indicate the phone's current status (see "Symbols found in the Info/Status bar" on page 128).

Context area: Configured identities and SmartLabels.

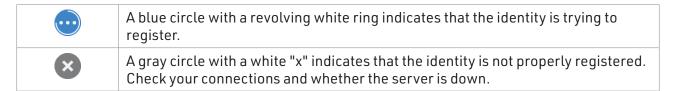


Outgoing identity

The current outgoing identity is indicated by a green ring around a green circle on a blue bar. When you call someone, this is your identity for the call.

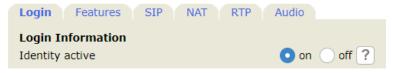
Active identity

- An active identity that is not the current outgoing identity is indicated by a green circle.
- It can be called.
- It can be selected as the outgoing identity for making calls by pressing
 ✓ / on the navigation key.



Note: Identities can be deactivated 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.

1. To deactivate the identity, open the phone's web interface > **Setup** > **Identity** (1-12).



- 2. Change the "Identity active" setting to off.
- 3. Click Re-Register.
- 4. Click Save.

For information on configuring new identities or modifying existing ones, see "Identities/accounts" on page 101. The default setting for the SmartLabel keys controlling the information shown on the SmartLabels is "Line", except for keys P5-P8, P16, P24 and P32. For more information on the labels, see "SmartLabels" on page 32; for information on mapping other functions onto the keys, see "Configuring the function keys" on page 81.

Status messages

When there are status messages: Any of numerous messages concerning the current status of the phone might be displayed in this line, 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. Some of the status messages you may see in idle mode are:

- The text "Missed:" and the total number of missed calls since the last time you turned off the missed call indication (the text in the info bar as well as the call LED). The missed calls will remain in your missed call list, however.
- The warnings "HTTP Password not set" and "Admin Password not set". They can be turned off
 by setting the passwords or manually on the phone's web interface (administrator mode only;
 not recommended due to increased security risk).

Deleting or temporarily suppressing 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.
- Temporarily suppressing messages: Press , if the button is available, or > Information > Status info to open the "Status info" screen. Use ✓ ↑ to select an item from the list. Press to view details of the selected item, if available; press to delete the selected item.
- Messages classified as important cannot be deleted. Examples: "HTTP Password not set",
 "Admin Password not set".

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 "Appendix 1 - Display Symbols and Icons" on page 121 for a complete list. The factory defaults are:

*	Settings menu.
6	Call History. See "Call lists" on page 74.
Ш	Directory. See "Directory" on page 46.
?	Pressing this key will put the IP address of the phone on-screen. If another function is mapped onto the key or if the key has been replaced by because of new status messages, IP address and URL can also be looked up in the settings menu: Information > Help.
ij	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 function key underneath the display.
	Press the key to display the status messages; press 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.
	The function mapped onto the key is now available on this key again. If you have mapped the "Info" 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.

When the phone is active

The display will inform you of any activity the phone is engaged in (see Fig. 1 on page 29). This information is presented in the form of text or symbols or both.

Info/status bar. Name of current activity, time and screen icons.

Context area

Depending on the activity, this area will contain symbols (incoming call ringing, outgoing call ringing, list entries, etc.) and text like the phone number calling, the extension number being called, conference partners, etc. Depending on the context, the SmartLabels will or will not be shown.

Function key line

Depending on the current activity of the phone, the 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 121 for a list of available functions.

SmartLabels

When the phone is idle, and in some contexts when it is active, the labels of the SmartLabel keys are displayed on four (4) "pages" in eight (8) label areas each, four on each side of the display (Fig. 1).



Fig. 1

The LED of the key associated with the label will react in accordance with the label's mapping, i.e., the function assigned to the key on a given page; pressing the key may affect what you see on the label.

By default, the lower right key on each page, keys P8, P16, P24, and P32, serves to switch to the next page, from 1 to 2, 3, and 4 and back to 1. The number of the on-screen page, 1, 2, 3, or 4, is indicated to the left of the time. The default is 1.

NOTE: You can assign the **Next Page** In function to another key but <u>one key on each page must</u> have the function if you want to be able to use more than one page.

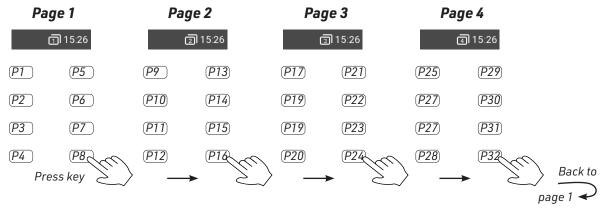


Fig. 2

The function keys can be mapped on the phone and, faster and more comfortably, on the phone's web interface. For information on programming the function keys, see "Configuring the function keys" on page 81.

Settings

Many settings can be adjusted on the phone and on the phone's web interface while some are available only on the phone or its web interface.

Phone settings

Press \clubsuit to open the settings menu on the display. To open submenus and settings, press \checkmark / \land to scroll to the submenu/setting and press \diamondsuit .

2 Expansion

modules⁽¹⁾

1 Backlight on Activity⁽¹⁾

2 Backlight When Idle (1)

3 Appearance

3 SmartLabel

1-4 Page 1-4

4 Expansion Keys⁽¹⁾

6 General

Keys

Settings available in administrator mode

All settings of the phone menu and on the phone's web interface are accessible.

1 Preferences	2 Call Features	3 Identity	4 Network	5 Maintenance	6 Information	
1 Language	1 Call forwarding	1 Select Outgoing Identity	1 IP Settings	1 Security	1 Status Info	
2 Date & Time	1 Forward All	2 Reregister Identity	1 IPv4	1 Administrator Mode On ⁽²⁾	2 System Info	
1 Time Zone	2 Forward when Busy	3 Edit Identity	2 IPv6	2 Set keyboard lock PIN	3 Demo Mode	
2 Date Format	3 Forward after Timeout	1 Hotdesking	2 Webserver	2 Reboot	4 Help	
3 24 Hour Clock	2 Outgoing calls	2 Edit Identity	1 Webserver On/Off	3 Reset Values		
3 Audio	1 Auto Dial	4 Log Off Identity	2 Webserver Type	4 Synchronize Settings		
1 Headset Detection	2 Auto Busy Redial	1 Log Off all Identities	3 Username			
2 Tone Scheme	3 Call Completion	2-13 (select individ. identity)	4 Password			
3 Ringer	4 Hide Outgoing ID		3 VLAN			
4 Volume Settings	3 Incoming calls		1 VLAN ID			
4 Display	1 Call Waiting		2 VLAN Priority			
1 Primary Display ⁽¹⁾	2 Auto Answer		4 WLAN			
1 Backlight on Activity	3 Reject Anonymous		1 WLAN On/Off			
2 Backlight When Idle	4 Silent mode		5 Advanced			
3 SmartLabel Options	5 Do Not Disturb		1 802.1X			
Idle Screen Behavior	4 Speed dial		2 Hardware			
Call Screens Behavior			3 NTP			
Other Screens Behavior			4 DNS			
Return to Default Mode			5 LLDP			
Return to First Page	5 Function Keys	(1) 0 1	han a DCC	atan manda ta t		
4 Color and Opacity	1 Context- Sensitive Keys					
5 Themes	2 Dedicated Keys	settings will not be accessible (see next page). The administrator password will be needed to return the				
٠ .	2 C					

The administrator password will be needed to return the phone to administrator mode. If you have not yet set the administrator password, then use the HTTP password to return the phone to administrator mode.

NOTE: For security reasons, we recommend that you set your own administrator password. **Be sure to write it down and store it in a safe place** because if it is lost or forgotten, you will not be able to return the phone from user to administrator mode and gain access to all phone settings.

Settings available in user mode

1 Preferences	2 Call Features	3 Identity	4 Maintenance	5 Information	
1 Language	1 Call forwarding	1 Select Outgoing Identity	1 Security	1 Status Info	
2 Date & Time	1 Forward All	2 Reregister	1 Administrator	2 System Info	
1 Date Format	2 Forward when	Identity	Mode Off ⁽²⁾ 2 Set Keyboard	3 Help	
2 24 Hour Clock	Busy 3 Forward after	_	Lock PIN 2 Reboot		
• • • • • • • • • • • • • • • • • • • •	Timeout		3 Synchronize	-	
3 Audio	2 Outgoing calls		Settings		
1 Headset Detection	1 Auto Dial				
2 Tone Scheme	2 Auto Busy Redial				
3 Ringer	3 Call Completion				
4 Volume Settings	4 Hide Outgoing ID				
4 Display	3 Incoming calls				
1 Primary Display ⁽¹⁾	1 Call Waiting				
1 Backlight on Activity	2 Auto Answer				
2 Backlight When Idle	3 Reject Anonymous				
3 SmartLabel Options	4 Silent mode				
Idle Screen behavior	5 Do Not Disturb				
Call Screens Behavior	4 Speed dial				
Other Screens Behavior					
Return to Default Mode					
Return to First Page					
4 Color and Opacity	5 Function Keys				
5 Themes	1 Context- Sensitive Keys	(1) Only	when a DRC every	nsion module is s	
2 Expansion modules ⁽¹⁾	2 SmartLabel Keys	(2) Pres	(1) Only when a D8C expansion module is c Pressing this key will put the phone in administrator mode. The administrator is needed to return the phone to admini mode. If you have not yet set the admin password, then use the HTTP password the phone to administrator mode.		
1 Backlight on activity ⁽¹⁾	1-4 Page 1-4	is ne			
2 Backlight when idle ⁽¹⁾	3 Expansion Keys ⁽¹⁾	pass			
3 Appearance	6 General	tile (
	4				

- module is connected.
- e phone in lministrator password ne to administrator t the administrator P password to return mode.

Most of the individual settings are described elsewhere in this manual: See "Using the phone" on page 58 and "Customizing the phone settings" on page 101.

Display settings

The backlight on the display of the phone can be adjusted separately for the times when the phone is active and when the phone is idle. The backlight when idle can be reduced to zero bars.

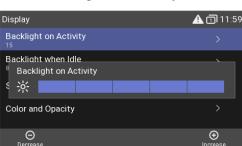
NOTE: When the phone has been inactive for a specified number of seconds, the backlight will return to idle mode. This setting is available only on the phone's web user interface, not on the phone itself.

For the display modes and options of the SmartLabels, see "Display options for SmartLabel keys" on page 95.

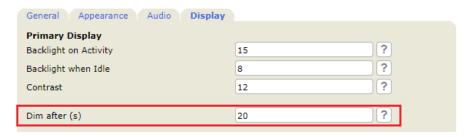
Adjusting the backlight on the phone's display

- Intensity of backlight. The setting adjusts the intensity of the backlight for both displays.
 - 1. Press 🌣
 - 2. Select **Preferences** and press
 - 3. Select **Display** and press
 - 4. If any expansion modules are connected to the phone, select **Primary display** and press.





- 6. Press the right or left arrow on the navigation key or the function key underneath \bigcirc or \bigcirc in the function key line to decrease or increase the backlight's intensity.
- 7. When done, press to save and return to the **Display** menu.
- **Period of inactivity**. The number of seconds after which the phone will switch from backlight on activity to idle backlight can be set on the phone's web interface only.
 - 1. Open the phone's web interface (see "Opening the web interface" on page 41).
 - 2. Click **Preferences** (see "How the web interface works" on page 42).
 - 3. Click the **Display** tab.
 - 4. Enter the number of seconds in the text field of **Dim after (in seconds)**. The default is 20 seconds.



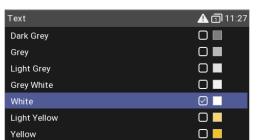
5. Click Apply and Save.

Adjusting the color and opacity on the phone's display

- **Color**. The setting adjusts the interface colors of items (text, function keys, scrollbar, cursor, etc.) displayed on the screen.
 - 1. Press 🌣.
 - 2. Select **Preferences** and press
 - 3. Select **Display** and press
 - 4. If any expansion modules are connected to the phone, select **Primary display** and press.
 - 5. Select **Color and Opacity** and press
 - 6. Select **Color** and press
 - 7. Press \checkmark / \land to select an item and press



8. Press ✓ / ∧ to select a color and press



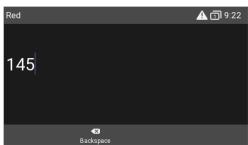


9. If you picked **Custom Color:**





b. Enter a value from 0-255 and press



- c. Press 🖺
- d. To change another color (**Red**, **Green** or **Blue**), press and go to step a.
- 10. Press x to return to the **Color** menu; press x for approx. 3 seconds to return to the idle screen.
- **Opacity**. The setting adjusts the opacity (level of transparency) of items (text, function keys, scrollbar, cursor, etc.) displayed on the screen.
 - 1. Press 🌣.
 - 2. Select **Preferences** and press
 - 3. Select **Display** and press
 - 4. If any expansion modules are connected to the phone, select **Primary display** and press.
 - 5. Select **Color and Opacity** and press
 - 6. Select **Opacity** and press
 - 7. Press ✓ / ∧ to select an item and press.



8. Enter the opacity value (0-100, where 0 is fully transparent and 100 is fully opaque) and press.



9. Press x to return to the **Color and Opacity** menu; press x for approx. 3 seconds to return to the idle screen.

Adjusting the theme on the phone's display

You can select a display theme (predefined wallpaper and color settings) for the phone.

- 1. Press 🌣
- 2. Select **Preferences** and press
- 3. Select **Display** and press
- 4. If any expansion modules are connected to the phone, select **Primary display** and press
- 5. Select **Themes** and press
- 6. Press \checkmark / \land to select a theme and press

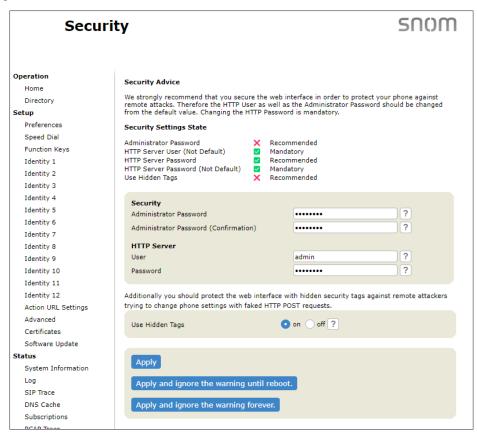




7. Press x to return to the **Display** menu; press x for approx. 3 seconds to return to the idle screen.

The phone's web interface

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. You already set your HTTP password when you initialized your phone (see page 18). **Please note:**

- Administrator password. 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 to regain access to all phone settings.
- HTTP user name and HTTP password. If you do not set these, you make it easier for experienced hackers to break into your system.

Note: Be sure to write down your admin password and your HTTP user name and password 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 user name and password you cannot open the phone's web interface.

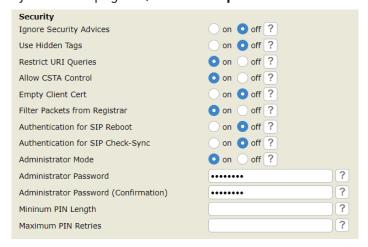
You can set and change the data on the phone's web interface at any time.

- 1. Click **Advanced Settings** in the vertical menu on the left side.
- 2. Click the **QoS/Security** tab at the top of the **Advanced Settings** page.



3. Enter the data in the text fields and click **Apply**.

 Administrator password. Valid values are arbitrary character strings of numerals, letters, and/or special characters of any length. Keep in mind that you may have to enter these characters on the phone's keypad (see "Entering numerals, letters, special characters, and symbols" on page 28). Write the password down and store it in a safe place!

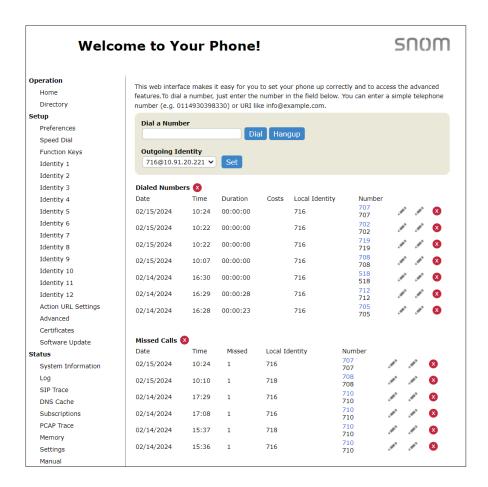


- HTTP user name and password. Enter the data in the text fields of the **HTTP Server** section and click **Apply**. The default value is blank.
 - User name. Valid values are character strings of letters and numerals, e.g. john or jh24.
 - Password. Text string.



Opening the web interface

- 1. Look up the phone's IP address: Press \bigcirc , if available, or \clubsuit > Information > Help.
- 2. Open a web browser on your PC. Enter the IP address, preceded by "http://" or "https://" in the address bar (for example: http://192.168.10.115) and press ENTER.
- 3. Enter the HTTP username and password when you are prompted. The home screen opens:



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 a menu item to open that page. Some pages contain several documents. To make a document visible, click 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 **Apply**. Changes will be lost if you open another page of the web interface or if you close the web interface without first clicking **Apply**.

After you have clicked **Apply**, in some cases the **Save** button will appear at the top of the page. Click **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.



To the right of each setting, there is a link symbolized by the question mark?. Click this link to open a wiki page with information on the setting (description, valid and default value, links to connected issues, etc.). Click 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 or check with your administrator.

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 switch to administrator mode. We recommend that you change the password for security reasons.

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.

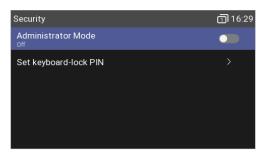
User mode on the phone

The "Network" menu and various other settings are inaccessible in user mode. See "Settings" on page 33. To switch to administrator mode, proceed as follows:

- 1. Press 🌣.
- 2. Select, i.e, if necessary scroll to **Maintenance** and press
- 3. Select **Security** and press
- 4. Select **Administrator Mode** (Fig. 1), if necessary, and press
- 5. Enter the Admin Mode Password.

NOTE: If you have not yet set the administrator password, then enter the HTTP password.

6. Press to save and return to the **Security** menu where **Administrator Mode** has been changed to "on") (Fig. 2).



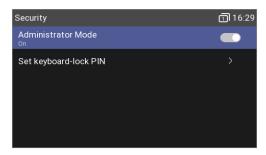


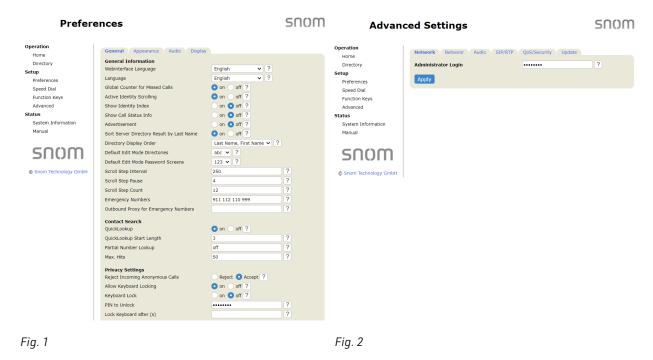
Fig. 1 Fig. 2

7. Press x for three seconds to return to the idle screen.

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 in user mode but the settings normally found on the **Advanced Settings** page are not; in its place is the admin login.

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 **Apply** (Fig. 2).

In administrator mode, the two pages look like this:

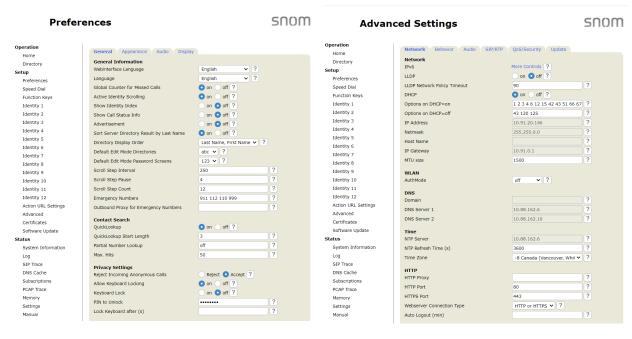
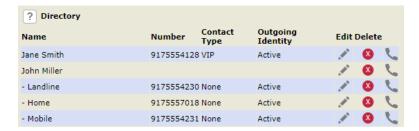


Fig. 3 Fig. 4

Directories

Directory

The directory is the built-in directory of the phone. It can hold up to 2000 entries. Entries can be added and edited on the phone and on the web interface.



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

• Entry with one phone number:

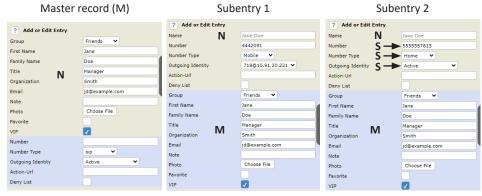


Entry with several associated phone numbers:



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

Blue area. For Master record, data can be different for each associated phone number. For Subentries, the data from the master record is displayed.



Info area of Subentry 2: Different entry in textfield of "Number" (S), different "Number Type" selection (S), different "Outgoing Identity" selection (S). Blue area text fields are the same as Master Record (M).

Contact Types

VIP: Calls from numbers with the **VIP** checkbox selected 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 the **Deny List** checkbox selected will not ring on your phone. The caller hears the "Busy" signal. To remove the number from the Deny list, you can either

delete the entry from the directory by clicking the "delete" symbol



or - if you want to keep the number in the directory - Edit the entry in the web interface and clear the **Deny List** checkbox (see "Editing an entry" on page 54 for more information); OR edit the entry on the phone and set **block** to No (see "Editing existing entry" on page 50 for more information).

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**, **Server** or **None**. The default setting is **None**. 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 VIP directory entries. It is also possible to download a custom melody.

Assigning ringtones to identities: See "Assigning ringtones" on page 103.

Assigning ringtones to VIP directory entries and group types

- 1. Open the phone's web interface, **Preferences** page > **Audio** tab > **Directory Ringtones** section.
- 2. Select a ringtone from the respective drop-down menu and click **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 VIP directory entries 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 \square to open the phone's directory.
- 2. Press the function key underneath 2.

Note: See "Input modes and navigation" on page 27 and "Entering numerals, letters, special characters, and symbols" on page 28 for information on how to enter data.

3. Enter the telephone number and press does not be to save the entry. The Contact Details screen appears.



4. See step 5 of "Editing existing entry" on page 50 for details on how to edit the contact details (Name, Type, Group, etc.)

Note: Entering a first and/or last name is optional. If you don't enter either 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.

Adding new entry from call list

For further information on call lists, see "Call lists" on page 74.

- 1. Press the function key underneath 🥞 to open the call history. The list of **All** calls appears.
 - Press </br>
 on the navigation key to show the lists of Missed, Received, or Dialed calls instead.





- 2. Press \checkmark / \land on the navigation key to select a call.
- 3. Press to view call **Details**.



4. Press to add the name (if the name was transmitted) and the number to the phone directory. If the name has not been transmitted, the number will be used in its place.

See step 5 of "Editing existing entry" on page 50 for details on how to edit the contact details (Name, Type, Group, etc.)

Adding current caller

With the call on the line, you can add the caller's name (if transmitted) and phone number to the directory. If the name has not been transmitted, the number will be used for both name and number.

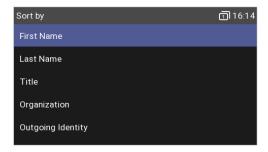
Note: In order to perform these steps, you must have a SmartLabel key mapped to Directory.

- 1. With the call on the line, press the SmartLabel key mapped to Directory \Box .
- 2. Press to add the caller to the directory.

See step 5 of "Editing existing entry" on page 50 for details on how to edit the contact details (Name, Type, Group, etc.)

Sorting entries

- 1. Press to open the phone's directory.
- 2. Press = ‡.
- 3. Press ✓ / ∧ to select the criterion for sorting (First Name, L ast Name, Title, etc.) and press to sort.



Editing existing entry

- 1. Press to open the phone's directory.
- 2. To search for a name, enter the first three letters of the first or last name.
- 3. Selecting an entry: Press \checkmark / \land to scroll to the entry.
- 4. Press $^{\textcircled{1}}$. The **Contact Details** screen for the entry appears.
- 5. Editing a contact detail.



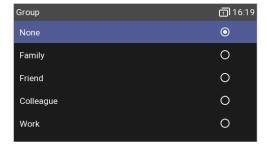
- a. Press \checkmark / \land and to select a contact detail. Depending on the contact detail,
- b. In some cases, you will see the prompt screen where you can enter or modify text. Edit the data, if necessary, and press to save. See also "Entering numerals, letters, special characters, and symbols" on page 28.



In other cases, you will see a list of values to select, or a question asking you to confirm yes/no. Examples:

i. Select **Group** with \checkmark / \land and \checkmark . The **Group** screen opens. Use \checkmark / \land to select

Family, Friend, Colleague, Work or None. Press to save and return to Contact Details menu.



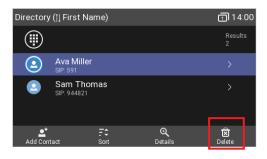
ii. Select **Favorite** with ✓ / ∧ and select Yes or No.



c. When you are done editing the entry, press \mathbf{x} .

Deleting an entry

- 1. Press ☐ to open the phone's directory.
- 2. To search for a name, enter the first three letters of the first or last name.
- 3. Selecting an entry: Press \checkmark / \land to scroll to the entry.
- 4. If you want to delete the entry, press (Fig. 1) and continue with step 5, below.



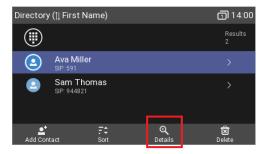


Fig. 1

- a. If there is **more than one phone number** associated with the entry and you want to delete only one of them, press (Fig. 2).
- b. Press \checkmark / \land to select the number you want to delete, and then press $\boxed{\mathbb{E}}$ (Fig. 3).

Fig. 2

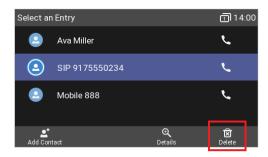


Fig. 3

5. You will be asked, "Are you sure?" (Fig. 4).



Fig. 4

6. If you are sure, press ✓ to delete the entry or phone number.

Adding/editing entries on the web interface

Click **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.
 - 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.
 - Deny List: Calls from entries with the **Deny List** checkbox selected will not ring on the phone. The caller will always hear the busy signal.
 - 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 > Audio tab
 > Directory Ringtones section.
 - First name, family (last) name: Will be added in this order under "Name" in the directory, unless you have also entered a nickname.
 - Favorite: Select the check box to add entry to "Favorites" list.
 - VIP: Calls from entries with the VIP checkbox selected 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** page > **Audio** tab > **Directory Ringtones** section.

2. Click **Add** 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 (see Fig. 2 and 3, below).

Editing

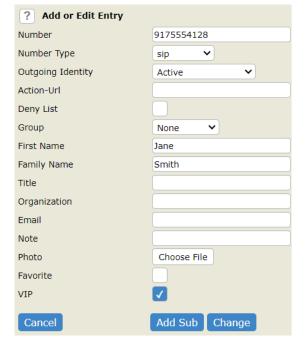


Fig. 1

- If single entry, click in the entry's line.
- If there is more than one number associated with a name:
 - Click in the name's line if you want to edit/add the first or last name and the data in the non-blue area applicable to the master record.
 - Click in a phone number's line if you want to edit the subentry's data (phone number, number type, outgoing identity, and any non-blue area data applicable to this subentry only).

Make changes as necessary and click 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 in Jane Smith's line (Fig. 1, above). The data is shown in the **Add or Edit Entry** area (Fig. 2).



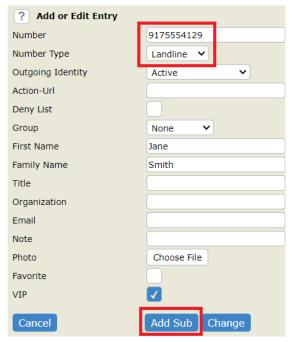


Fig. 2 Fig. 3

- Enter the phone number in the text field of **Number** (Fig. 3).
- Select **Landline** from the drop-down menu of **Number type** (Fig. 3).
- **Optional:** Select an outgoing identity from the drop-down list, or select the **Deny List** checkbox (Fig. 3).
- Click Add Sub (Fig. 3).
- John Miller's entry has a landline number and a home number. In this example, his mobile number will be added as a third number.
 - Click in the line containing John Miller's name. The data is shown in the Add or Edit Entry area.
 - Enter the phone number in the text field of **Number**.
 - Select **Mobile** from the drop-down menu of **Number Type**.
 - **Optional:** Select a contact type and an outgoing identity from the respective drop-down list.
 - Click Add Sub.

The directory now contains Jane Smith's landline number and John Miller's mobile phone number (Fig. 4).

Jane Smith			· Mar	X	6
- sip	9175554128 VIP	Active	A PARTY	X	6
- Landline	9175554129 VIP	Active	A PARTY	X	6
John Miller			A PARTY	X	6
- Landline	9175554230 Deny List	Active	A PARTY	X	6
- Home	9175557018 Deny List	Active	A PARTY	X	6
- Mobile	9175554231 Deny List	Active	A. Marie	X	6

Fig. 4

Deleting entry on web interface

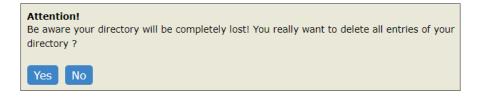
- Entry with one phone number. Click $\overline{\mathbf{X}}$ in the entry's lines to delete the entry.
- Entry with more than one phone number.
 - Deleting the entry. Click in the line of the master record to delete the name and all associated phone numbers.
 - Deleting one of the phone numbers. Click in the line of a phone number subentry to delete that subentry, but keeping the master record and all other subentries.

Dialing from phone directory

To dial, click the phone symbol 📞 on the right side of the line with the phone number.

Deleting whole directory

Deletes the entire directory irretrievably. A confirmation screen will ask if you are sure you want to delete.



Importing/Exporting Directory

See our Service Hub at https://service.snom.com/display/wiki/Phone+directories.

External directories

Available if 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 Settings** page > **Network** tab > **LDAP** section and click **Apply** and **Save**.

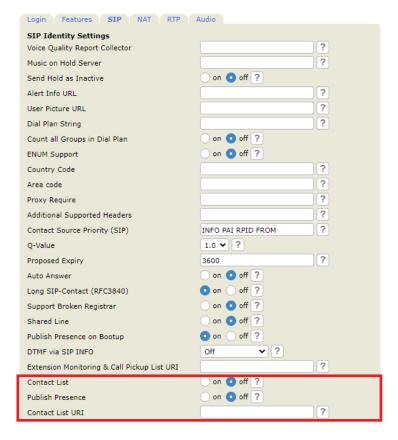
LDAP search on the phone: Enter the first letter of the name you are searching for. Type more

letters if the name shown isn't the right one or scroll through the list. Press to d

Contacts

If you want to use an external contacts list, the **Contact list** and **Contact list URI** settings are mandatory. **Publish presence** is optional; when enabled, the phone sends out "PUBLISH" SIP messages with the phone's status, e.g. busy, etc.

- 1. On the phone's web interface, **Identity (1-12)** page > **SIP** tab, click the radio button **on** of the **Contact list** entry.
- 2. Enter the URI received from your administrator, VoIP provider or other external source in the text field of **Contact list URI**.
- 3. Optional: Click the radio button **on** of the **Publish presence** setting.
- 4. Click **Apply** and **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 + Number". To change the setting, click **Preferences** > **Appearance**. In the **Interface elements** section, select an option from the pull-down menu **Number Display Style**. The other options are Full Contact, Name, Number, and Number + Name.

Making calls

See "Entering numerals, letters, special characters, and symbols" on page 28 for information on input modes and entering letters, numerals, and special characters.

Selecting identity for current outgoing call

See "Identities/accounts" on page 101 on how to configure identities.

If more than one identity is shown on the display, the one on the blue bar with the white and green rings around the green circle is the outgoing identity for the call and the number/name that will show on the callee's phone. Use the up or down arrow on the navigation key to select another identity.



Using different audio devices

Handset

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

Headset

Enter the phone number and press Ω .

Speakerphone

Enter the phone number and press

Using different dialing methods

Auto dial

When the function is enabled, the phone will dial the number on the display when the time span in seconds specified in this setting has elapsed since the last digit was typed.

Note: The default setting is off. In administrator mode, the setting can be enabled on the phone's web interface at > **Advanced Settings** > **Behavior** tab, **Phone Behavior** section, **Auto Dial** Timeout setting by entering a time span in seconds.

Redialing

1. Press to show the last numbers dialed, with the very last number at the top.





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

- 1. Press (dialed calls), (received calls), or (missed calls) to open the respective call list.
- 2. Press \checkmark / \land on the navigation key to select a call.
- 3. Press to dial the number.

Calling number from phone directory

- 1. Press to open the phone's directory.
- 2. To search for a name, enter the first three letters of the first or last name on the alphanumeric keypad.
- 4. To dial the number, press or lift the handset off the cradle
 -OR press → and then press ↓.

Calling number from external directory

- 1. Open the dial screen to get access to the external directory:
 - a. Lift the handset off the cradle or press to open the dialing screen (Fig. 1).
 - b. Press the function key underneath to show the list of available directories and call lists (Fig. 2).





Fig. 1

Fig. 2

c. Select the external directory. In our example, scroll down to LDAP.

2. To search for a name, enter the first three letters of the first or last name on the alphanumeric keypad.

- 3. Press **∨** / **∧** to select a name.
- 4. Press [⊕] and then press to dial the number.

Speed dialing

Setting speed dial numbers: See "Speed dial" on page 115. Mapping a speed dial number onto one of the SmartLabel keys: See "Configuring the function keys", "Example 2, Speed dialing" on page 92.

- Speed dial number on speed dial list
 - 1. Enter the speed dial number (0-30) assigned to the phone number you wish to dial.
 - 2. Press to dial.
- Speed dial number mapped onto a SmartLabel key 1-32: Select the page, if necessary, and 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 107 on how to set emergency numbers. Several numbers (911, 112, 110, 999) have been preconfigured.

On an unlocked keyboard: Enter the number and press



• On a locked keyboard: Enter the number. The phone dials the number as soon as you have entered all the digits of one of the programmed emergency numbers.

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, you can have your phone call you back as soon as the dialed number is not busy anymore or available again. The default setting is "off".

Changing the setting to turn on call completion: See "Call completion" on page 110.

1. When call completion is available and enabled, the Waiting screen appears when you are calling a number that is busy or unavailable (Fig. 1).

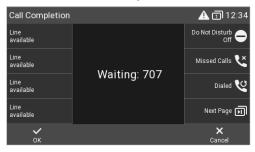




Fig. 1

Fig. 2

2. Press / if you wish to dial another number while waiting for call completion (Fig. 1). You can now hang up the handset to return to the idle screen (Fig. 2); use handset, headset, or speakerphone to dial another number; receive calls etc. Call completion will not interfere with the normal operation of your phone. The symbol appears in the Info bar/status line and a message appears in the context area (Fig. 2).

OR: Press / × to turn off call completion for this call (Fig. 1).

3. When the number becomes available, you will see it announced on the display (Fig. 3) and hear a double beep if you are in a call.



Fig. 3

4. Press ✓ to dial; OR

Press / \times to turn off call completion for this call.

QuickLookup (number quessing/auto completion)

When you have entered a few numbers, the phone begins searching its directories and calls list for numbers matching the numbers typed on the phone's keypad.

1. Start entering the phone number you want to call. The matching results are shown on the display.



- 2. Press the \checkmark / \land arrows on the navigation key to scroll through the list of numbers.
- 3. Select the number you want to dial and press

Accepting calls

Using different audio devices

Handset: Pick up the handset.

Headset: Press Press If the phone is already in headset mode, you can also press the blinking line

key.

Speakerphone: Press or the blinking line key.

Automatically accepting calls

The default is **off**. Turning the function on: On the phone's web interface > **Identity** (1-12) > **SIP** tab > Auto answer, click the radio button **on**. With this setting, your phone will automatically accept incoming calls when it is idle.

Calls will be accepted on speakerphone, and you will be alerted acoustically by a single long beep; press the headset key if you want calls to go to the headset.

To turn off the acoustic alert, open the phone's web interface to **Preferences** page > **Audio** tab > **Auto Answer** section > **Auto Answer Indication** and click the radio button **off**.

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 as follows:

- It must be supported by the PBX.
- The extensions whose calls you want to pick up on your own extension must permit this function. It is possible but not required to restrict the permission for monitoring to certain users or groups of users.
 - Settings: See "Example 1, Extension monitoring and call pick-up" on page 90.
- Each extension to be monitored must be programmed onto one of the SmartLabel keys with LEDs on the phone (and the page the key is on must be on-screen on the phone's display).
- If you want to see who is calling or connected to any of your monitored extensions, the
 function must be enabled; the default setting is off. It can be turned on in administrator
 mode only. Open the phone's web interface > Advanced Settings page > Behavior tab >
 setting Go to Call-Monitor on Activity and click the radio button on.

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.);

and by the idle display showing the call-monitor state.

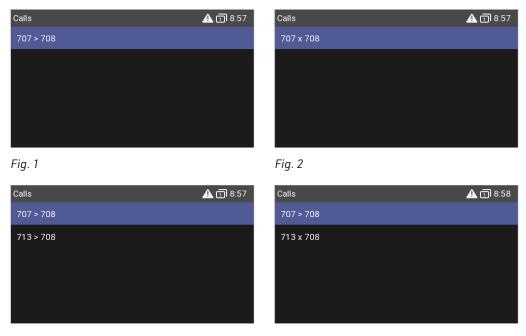


Fig. 3 Fig. 4

- When your phone is idle, any ongoing activity on all extensions monitored by your phone will be shown on the display. In the above examples, "707 > 708" (Fig. 1) indicates that extension 707 is calling extension 708; "707 x 708" (Fig. 2) indicates that 707 is connected to 708 and that 707 is the caller, 708 the callee. If more than one monitored extension is being called or in a call, the last incoming call is added to the top of the list (Fig. 3, 4).
- Press x 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 by the flashing call LED and by the symbol © appearing in the function key line (Fig. 1); it will also be announced acoustically by a double beep. If you want to switch to visual or acoustic announcement only or turn call waiting off completely, see "Call waiting" on page 112.



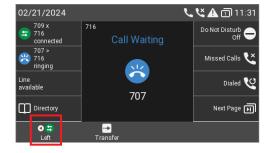


Fig. 1



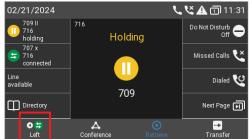


Fig. 3



Fig. 4

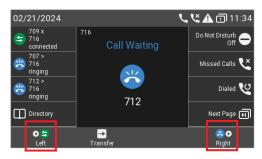


Fig. 5

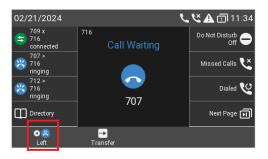


Fig. 6

Fig. 7

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 (Fig. 1). This option is available only when there is a free line key available at the time the call comes in.
- Press the function key underneath (Fig. 1) to put the **Call waiting** screen on the display (Fig. 2); you will see the caller ID on-screen if it is being transmitted.
 - \circ Press $\overset{oldsymbol{x}}{oldsymbol{x}}$ 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. 2 and 7).

Note: Pressing and will affect the call shown on the display, i.e., your current connection in Fig. 1, 3 and 5, the call waiting in Fig. 2 and 6 or the call on hold in Fig. 4.

• If there is more than one call waiting (Fig. 5, 6, and 7), press the keys (a), or (s), respectively, to bring them on-screen and to return to the connected call.

- 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 putting the **Call waiting** screen on the display and pressing X. The caller hears the busy signal. Pressing X 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. For more information on the "Deny" list and how to remove entries from it, see "Contact Types" on page 47.

Active calls

Hold

One call on hold

Press to put the ongoing call on hold. Held calls are indicated as follows:

• By the text on the display.



- By the slowly blinking line key.
- By the slowly blinking call indication LED.
- By the double beep when you put a call on hold.

You can now:

- transfer the held call blindly or with prior announcement see
 "Transferring calls" on page 69.
- receive and make calls and put other calls on hold.

Pick up the held call by pressing its line key or by pressing again. If the other party hangs up while on hold, the call is terminated on your phone as well and the LED 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, the symbol is available in the function key line. You can switch back and forth between the active call and any call on hold. Up to 12 simultaneous calls are possible, if supported by the PBX.

• In Fig. 1 and 2 the phone is in one active call with a second call on hold. Fig. 1 shows the connected call. Press the function key underneath to show the call not currently on screen.





Fig. 1

Fig. 2

• In Fig. 3 – 4 there are two calls on hold. Fig. 4 shows the second held call. Press the function keys underneath \bigcirc \bigcirc \bigcirc to show the call not currently on screen.

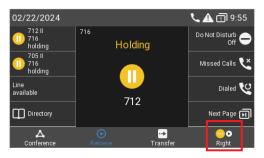




Fig. 3

Fig. 4

- When the connected call is on-screen, you can transfer it to a third party or terminate it by pressing x.
- When a held call is on-screen, press to connect to it and put the currently connected call on hold.

Conference

Note: This section refers to phone-based conferences. For the number of participants and how to set up and participate in server-based conferences, please check with your network administrator or your VoIP provider.

The maximum number of participants (including yourself) is three.

To increase the maximum number of participants (including yourself) to five, perform the following steps:

- 1. On the web interface, open the **Status** > **Settings** page.
- 2. Right-click the setting **phone_features**. Enter the new value: SmartLabel LargeLocalConference, and then click **OK**.
- 3. Click **Reboot**, and then click **Yes** to confirm.
- 4. Wait for the phone to reboot.

Initiating a conference

- 1. Call the first intended participant.
- 2. Put the participant on hold, and then call the next intended participant.



Fig. 1

- 3. If you previously increased the maximum number of participants to five:
 - a. To add a third participant, repeat step 2.
 - b. To add a fourth participant, repeat step 2.
- 4. 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 \triangle (Fig. 1) to start the conference, the names, if available, and/or phone numbers of the other participants are shown on-screen (Fig. 2 - 4). Fig. 2 shows the conference screen, e.g., "2 parties" while Fig. 3 and 4 show the screens for the individual participants.





Fig. 2

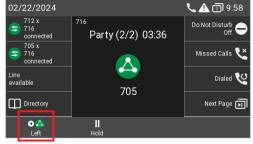


Fig. 4

- Selecting individual participants.
 - On the conference screen (Fig. 2), press to select the first participant of the conference.
 - When viewing a participant (Fig. 3), press to select the next participant (Fig. 4).
 - When viewing a participant (Fig. 4), press to view the previous participant (Fig. 3).
 - When viewing the first participant (Fig. 3), press to return to the conference screen (Fig. 2).
- Talking to one participant in private. With one of the participants on-screen (Fig. 3 or 4), press to converse with that participant in private and to put the other participant(s) on hold. To restart the conference, press .
- Putting one participant on hold. With one of the participants on-screen (Fig. 3 or 4), press to put this participant on hold and to converse with the other participant(s) in private.

 To restart the conference, press and then press .

• Putting all participants on hold. Return to the conference screen (Fig. 2) and press ...

To restart the conference, press ...

• To terminate the conference and the connections to all participants, return to the conference screen (Fig. 2) and 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:
 - **Attended transfer:** Announcing the call to the third party first, to make sure the call is welcome and will be accepted;
 - **Blind transfer:** Transferring the call unannounced. 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

- With a single call on the phone.
 - 1. Put the call on hold. In our example, the caller on hold is 709.





Fig. 1

Fig. 2



Fig. 3

- 2. Dial the number you want to transfer the call to and announce the call (Fig. 2). You can also select a number from the internal or one of the available external phone directories (see "Calling number from phone directory" on page 59 and "Calling number from external directory" on page 59).
- 3. If the third party wants to accept the call, press or . The "Holding 709" screen appears (Fig. 3).

4. Press to complete the transfer. You may briefly see the messages "Ended 712" (Fig. 6 below) and "Ended 709" (Fig. 7 below), indicating that the transfer was completed.

- With more than one call. All calls must be on hold. In the below example you have two calls from phone numbers 707 and 709 on hold. You want to transfer the call from 709 to 712.
 - 1. Dial 712 and announce the call.
 - 2. If the third party wants to accept the call, press or the call you **do not** want to transfer, appears on-screen (Fig. 4), press to bring "Holding 709" on-screen (Fig. 5).

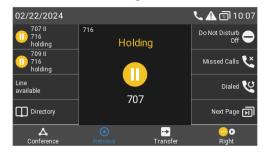




Fig. 4

Fig. 5

3. Press . You may briefly see the messages "Ended 712" and "Ended 709" (Fig. 6 and 7), indicating that the transfer was completed.





Fig. 6

Fig. 7



Fig. 8

The remaining call on hold or the first of the remaining calls on hold will then appear on-screen (Fig. 8).

Blind transfer

- Blind transfer of active call
 - 1. With a call on the line (Fig. 9), press or 😉. The dial screen will appear.





Fig. 9

Fig. 10

- 2. Dial the number (Fig. 10), or press to select a number from the internal or one of the available external phone directories (see "Calling number from phone directory" on page 59 and "Calling number from external directory" on page 59).
- 3. Press You may briefly see two "Ended" messages followed by the callee and caller's name/number, indicating that the transfer was completed (Fig. 6 and 7 on preceding page).

If a call is waiting (Fig. 11), as indicated by the symbol $\bigcirc \bigcirc$ in the lower right corner, you must reject the call waiting before you can transfer your active call blindly.





Fig. 11

Fig. 12

- a. Press the function key underneath $\bigcirc \bigcirc$. The "Call Waiting" screen (Fig. 12) appears.
- b. Press x to reject the call. The caller hears the busy signal.

Note: If you want to transfer the call waiting, see next section.

• Blind transfer of call waiting

1. If you are in a call and want to transfer a call waiting (Fig. 11, above), press the function key underneath (\$\oldsymbol{\infty}\$). The "Call Waiting" screen (Fig. 12, above) appears.

Note: Your active call will remain active while you are transferring the ringing call.

- 2. Press or . The dial screen (Fig. 10, above) appears.
- 3. Enter the number of the third party you intend to transfer the call to and press The "Connected" screen (Fig. 9, above) with your current call reappears.

- Blind transfer of ringing call
 - 1. With a call ringing (Fig. 13), press or 🖜.



Fig. 13

- 2. The dial screen (Fig. 10, above) appears.
- 3. Enter the number of the third party you intend to transfer the call to and press



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 call LED (steady light), the missed call symbol in the status line, and the "Missed" message with the number of new missed calls on the display (Fig. 1) and/or on the Status info screen (Fig. 2).

Note: If there are status messages with a higher priority, the status line will show the message with the highest priority.





Fig. 1

Fig. 2

• To view your missed calls, press the right arrow on the navigation key. The red dot indicates the arrival of new missed messages since the last time the missed calls were viewed (Fig. 3). It is removed from the list of all calls and turns blue in the list of missed calls once the list has been viewed (Fig. 4).





Fig. 3

Fig. 4

• Turning off the missed call indications (LED and "Missed" message). Use one of the following methods:

- View the list of missed calls.
- Via the Status info screen.
 - 1. Press , if available (Fig. 1), or open the **Settings** menu > **Information** > **Status Info** to view the status info messages.
 - 2. Press the function key underneath to delete the "Missed" message line (Fig. 2). If there are other status info messages, you may need to use the up/down arrows ✓ ∧ on the navigation key to select the "Missed" message line.

Note: This will only remove the status message "missed" and turn off the LED. The missed calls will still be visible in the Call History until you delete them.

Call lists

Three call lists of missed, dialed, and received calls are stored on the phone. They contain the number, time and date, and duration of the calls. If the memory allotted to storing the call lists is full, the oldest ones will be overwritten.

1. Press 🤻 to open the call history (Fig. 1).



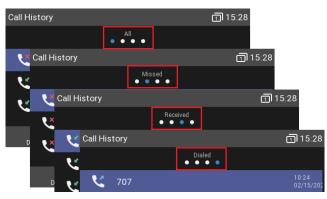


Fig. 1

Fig. 2



Fig. 3 Fig. 4

The red dot indicates the arrival of new missed messages since the last time the missed calls were viewed (Fig. 4). It is removed from the list of all calls and turns blue in the list of missed calls once the list has been viewed.

2. To view the list of missed, received, or dialed calls, press the left and right arrows > on the navigation key to put the lists on-screen one after the other (Fig. 2).

Note: On the idle screen you can also use the following keys to view the lists directly (default setting):

- Missed calls: Press the right arrow > on the navigation key. See also "Missed calls" on page 72.
- Received calls: Press the left arrow \checkmark on the navigation key.
- Dialed calls: Press
- 3. On each list, the latest call is at the top of the list (Fig. 1, above). Scroll through the list with the up/down arrows $\checkmark \land$ on the navigation key. The icons indicate the type of call:
 - missed call
 - **\(-** received call
 - 🕻 dialed call

- Press to dial the number of the selected call.
- Press to delete the selected call.
- \circ Press \square to delete the entire list.
- Press for three seconds to return to the idle screen.
- Press = to sort the calls.
- \circ Press igotimes to show the call details of the selected call.





Fig. 1

Fig. 2

- Missed calls: To, from, time (and date if not today), total number of missed calls from caller (Fig. 1).
- Received and dialed calls: To, from, time (and date if not today), duration of call (Fig. 2).
- When viewing the Details of a call:
 - Press to add the caller/callee to the phone's directory. See "Editing existing entry" on page 50 for information on adding a name and other data to the new directory entry.
 - Press 🗷 to delete the call.

Locking and unlocking the keyboard

Press for three seconds to lock and unlock the keyboard; you may need to enter a PIN to unlock, if a PIN has been set. When the keyboard is locked, only the emergency numbers configured on the **Preferences** page of the phone's web user interface can be dialed.

Setting a timer for automatically locking the keyboard after inactivity, setting a PIN for locking and unlocking the keyboard, and disabling keyboard locking: see "Keyboard Locking" on page 108. For more information on dialing and setting emergency numbers, see "Calling emergency numbers" on page 60 and "Emergency numbers" on page 107, respectively.

Rejecting or redirecting incoming calls

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

Manually

If you do not wish to pick up a ringing call, you have three options: Letting the call ring and not picking it up, rejecting it manually, or transferring it manually to a third party.

- Rejecting a ringing call manually.
 - Press 🗷. The caller will hear the busy signal.
 - Press for three seconds to reject the call and additionally place the caller on the "Deny" list of the phone's directory so that calls from that number will never ring on your phone; the caller will always hear the busy signal. For more information on the "Deny" list and how to edit or remove entries from it, see "Contact Types" on page 47.
- Transferring the ringing call to another phone (blind transfer). See "Blind transfer of ringing call" on page 72.

Automatically

There are four options for rejecting incoming calls 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, see "Contact Types" on page 47.
- DND do not disturb mode . When this function is turned on, callers hear the busy signal. If there is an active setting for call forwarding on busy, incoming calls will be forwarded to the number specified in the setting. For more information, see "Dedicated keys" on page 25.

Exception: Phone numbers designated VIP in your phone's directory will ring on your phone even when DND is on.

- Call forwarding. For further information, see "Call forwarding" on page 78 and 109.
- Rejecting anonymous calls: See next section.

Rejecting anonymous calls

With this setting you can have 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 when you turn this function on.

Activating rejection of anonymous calls

- 1. Press .
- 2. Select **Call Features** and press



- 4. Select **Reject anonymous**. The default setting is off (Fig. 1).
- 5. Press to change the setting to on (Fig. 2). (When the function is active, pressing will turn it off.)



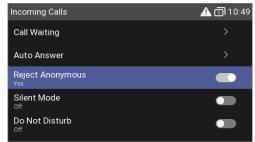


Fig. 1 Fig. 2

6. Press x for three 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 109.

Note: Call forwarding is set separately for each configured identity. When the setting is done on the phone, it applies to the identity selected as outgoing identity.

Forward All: Forwarding all incoming calls to the number of the phone, extension, or mailbox specified as this function's target (Fig. 2).





Fig. 1 - Call Forwarding off

Fig. 2 - Forwarding all calls

You can map the Call Forward function onto a function key or SmartLabel key, or use the settings menu as shown in the table below. To turn on call forwarding of all calls for other configured identities, select each one in turn as the outgoing identity and repeat the setting (Fig. 3).

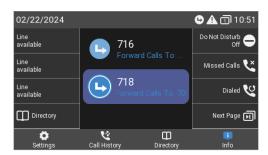


Fig. 3

Forward when Busy: Forwarding calls ringing while the 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.



Fig. 5 – Forwarding when busy

Fig. 6 – Forwarding when call has not been answered after time set in seconds

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

	Forward all	Forward when busy	Forward after timeout
Press	‡	*	*
Press	Call Features	Call Features	Call Features
Press	1 Call Forwarding	1 Call Forwarding	1 Call Forwarding
Press	1 Forward All	Forward when Busy	Forward after Timeout
Press	or 1 Enable forwarding	or 1 Enable forwarding	or 1 Enable forwarding
	The setting will change from off (Fig. 7, below) to on, and the setting for the forwarding target will appear (Fig. 8). In the case of forwarding after timeout, the setting for the time span will also appear (Fig. 9).		
Press	Target	Target	Target
Type	phone number	phone number	phone number
Press			
Press			Call Forwarding time
Type			number of seconds
Press			
Press	🗴 for three seconds to return to the idle screen.		





Fig. 7

Fig. 8



Fig. 9

Turning off call forwarding

	Forward all	Forward when busy	Forward after timeout
Press	*	*	*
Press	Call Features	Call Features	Call Features
Press	1 Call Forwarding	1 Call Forwarding	1 Call Forwarding
Press	1 Forward All	Forward when Busy	Forward after Timeout
Press	or 1	or 1	or 1
	Enable forwarding	Enable forwarding	Enable forwarding
	The setting will change from on to off, and the settings for the forwarding target and, in the case of timeout, for the time span will disappear.		
	Enable Forwarding Yes	Enable Forwarding	•••
Press	🗴 for three seconds to return to the idle screen.		

Turning forwarding of all calls on/off with a function key or SmartLabel key

Turning call forwarding on

Note: Call forwarding is set separately for each configured identity. When the setting is done on the phone, it applies to the identity selected as outgoing identity.

- 1. Select the identity if there is more than one active identity.
- 2. Press . The display will show the **Target when Forwarding** screen.

Note: If 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", "Example 3, Changing setting of context-sensitive key" on page 94.

- 3. If no forwarding number has been set or if it needs to be changed, make the necessary entries.
- 4. Press

Turning call forwarding off:

- 1. Select the identity if there is more than one active identity.
- 2. Press the function key underneath 🔽.

Configuring the function keys

See page 40 on how to open the phone's web interface. See page 42 on the mechanics of navigating in the windows and changing the settings.

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

Function key types 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 them.

There are four types of programmable function keys (see also "At a glance" on page 22):

• Context-sensitive, programmable function keys. For the default settings, see "At a glance" on page 22. You can select a different key event to be available on each respective key when the phone is in idle mode. See "Example 3, Changing setting of context-sensitive key" on page 94 for step-by-step instructions on how to change the function mapped onto the key.

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 121 for the lists of symbols and their description.

• **Navigation, confirmation, and cancel keys**. For the default settings, see "At a glance" on page 22. 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 key. Other key events and a selected number of other functionalities can be programmed onto them. For the default settings, see "At a glance" on page 22.
- SmartLabel keys with LEDs the keys controlling the SmartLabels on the phone . All available functionalities, including key events, can be programmed onto them.

Settings descriptions:

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 P2 to speed dial a specific number and you want to use configured identity 2 to call that number, select configured identity 2 from the dropdown menu of P2's "Context". When you speed dial the number by pressing key P2, 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 4 - Programmable Functions" on page 132 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 (617) 555-0704 should be entered as 6175550704.

Short/Full Label Mode

Select a mode from the drop-down list. The default settings for both are icon and text.

- Icon. The label will display the icon of the functionality mapped onto the key, e.g.
 if extension,
 if speed dial, etc.
- Text. The label will display the text you have entered in step 10 of "Function key settings on the phone" on page 86 or the number if no text was entered.
- Icon and text. The label will display the icon of the functionality mapped onto the key and the text or number.

Short/Full Label

Optional: Enter a name or other descriptive text in the text field. This is the data displayed on the key's label area on the phone. If you leave the field blank, the number will be displayed in the key label area.

LP Feature (setting on phone only – functionality for long-pressing key)

This is a shortcut to the configuration menu of each function key with LED (keys P1-P32). In the default setting, the function is enabled (Fig. 1).

If necessary, use the Next Page key to select the page the key is on, and then press the function key for three seconds to open its configuration menu. The yellow LED on the function key blinks. See "Function key settings on the phone" on page 85, step 4, on how to continue.

Note: The LP Feature must be deactivated for the functions Push-to-Talk and Line Info Layer.

If the LP feature of a key has been disabled, use the **Preferences** menu to access the key's configuration menu. See "Function key settings on the phone" on page 84.



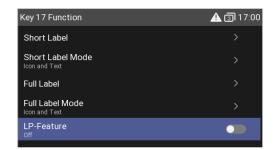


Fig. 1 Fig. 2

Function key page of phone's web interface

The page has two subpages. The key settings are configured on the subpage **Key Assignment**; the manner in which the SmartLabel keys are shown on the display is configured on the subpage **SmartLabel**.

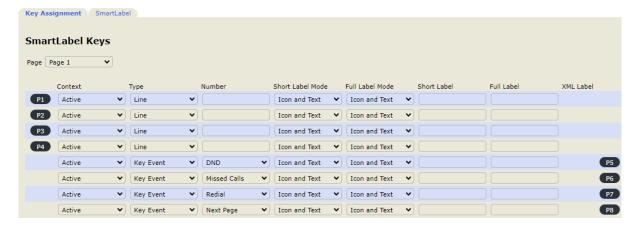


Fig. 1 - Page 1 with keys P1-P8 on phone's web interface

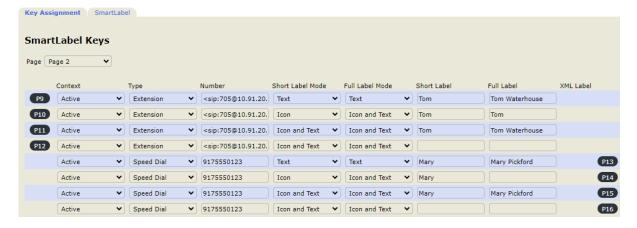


Fig. 2 - Page 2 keys with and without "Short" and "Full Label" settings

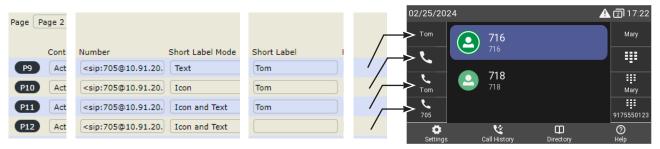
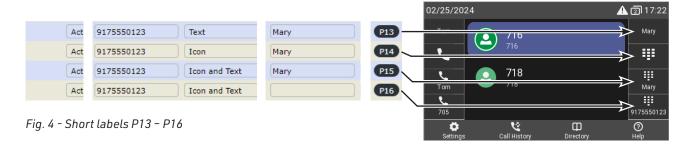


Fig. 3 - Short labels P9 - P12



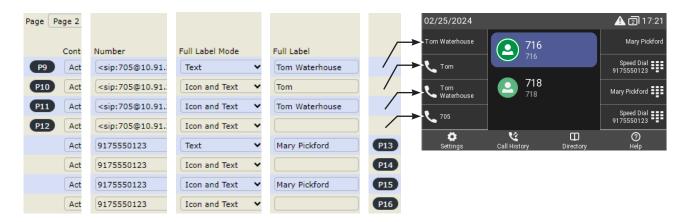


Fig. 5 - Full Labels P9 - P12



Fig. 6 - Full Labels P13 - P16

Programming the function keys

The freely programmable function keys on the phone can be mapped on the phone and on the phone's web interface. We recommend using the web interface which is faster and more comfortable.

Function key settings on the phone

On the phone, a limited number of functionalities is available.

1. Press → Preferences > Function Keys (Fig. 1).

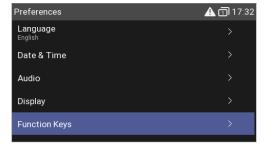




Fig. 1 Fig. 2

- 2. Select **SmartLabel Keys** (Fig. 2).
- 3. Select **Page 1, 2, 3**, or **4**, respectively, by scrolling to the respective page and pressing (Fig. 3). In the following example, we will be configuring key 17 on page 3.





Fig. 3

4. Select the key and press to open the **Key 17 Function** menu (Fig. 4). The selected key flashes yellow if the SmartLabel key page with the key to be configured is on-screen (Fig. 5).





Fig. 4

Fig. 5

- 5. The default for **Context** is *Active*, i.e., all configured identities whose status is "active" (Fig. 6).
 - a. If you want to restrict the functionality to a configured identity, select **Context** and press

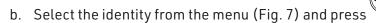






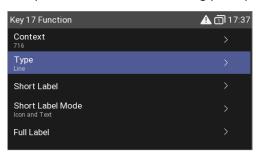
Fig. 6

Fig. 8

Fig. 7

6. Select **Type** and press (Fig. 9). Use **✓** / **∧** to scroll to a functionality on the list (Fig. 10)

and press . The following prompts depend on the selected functionality.



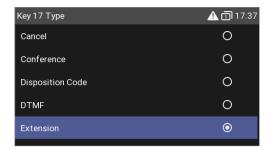


Fig. 9

Fig. 10

7. In our example, the functionality is *Extension* (Fig. 10). Press to select and return to the Key 17 Function menu where **Number** has been added to the menu below "Type" (Fig. 11).



Fig. 11

8. Select **Number** and press



9. Enter the extension number and press



⁾ (Fig. 12).



Fig. 12

10. **Short Label** (Fig. 13) and **Full Label** are optional. This is the data displayed on the key's short and full label areas on the phone's display (see "Fig. 3 - Short labels P9 - P12" on page 83, "Fig. 4 - Short labels P13 - P16", "Fig. 5 - Full Labels P9 - P12", and "Fig. 6 - Full Labels P13 - P16" on page 84). If you do not enter data for each label type, the number will be displayed in

the label area instead. Enter a name or other descriptive text (Fig. 14) and press



press without entering data.





Fig. 13

Fig. 14

11. Select **Short Label Mode** (Fig. 15) and press

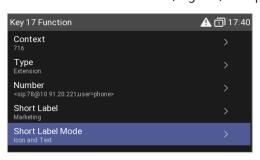




Fig. 15

Fig. 16

12. Specify the content you want the label to display by scrolling to the respective line (Fig. 16) and

pressing to save and return to the **Key 17 Function** menu (Fig. 15). The default is Icon and Text; you can also select Text Only or Icon Only – see "Short/Full Label Mode" on page 82 for more information.

- 13. Select Full Label Mode and press
- 14. Specify the content you want the label to display by scrolling to the respective line and pressing

to save and return to the **Key 17 Function** menu. The default is Icon and Text; you can also select Text Only or Icon Only — see "Short/Full Label Mode" on page 82 for more information.

15. Press priefly to return to the **Key Function** menu; press for three seconds to return to the idle screen. When page 3 is on-screen, the top left key can now be used to dial the extension by briefly pressing the key and to pick up calls ringing on the extension (Fig. 17); the LED will indicate the call status of the extension, i.e., idle, ringing, and in call. See "Example 1, Extension monitoring and call pick-up" on page 90 for more information on how to configure and use extension monitoring.



Fig. 17

Function key settings on the web interface

See "Selected examples for function key programming" on page 89 for the function key mapping, and "Display options for SmartLabel keys" on page 95 for the optical presentation on the display.



Fig. 1

Key Assignment SmartLabel	
Idle Screen	
Default Display Mode	Full • ?
Alternative Display Mode	Short ✓ ?
Alternative Display Trigger	Long Press P8 ✓ ?
Call Screens	
Default Display Mode	Full ?
Alternative Display Mode	Short •?
Alternative Display Trigger	Long Press P8 ✓ ?
Other Screens	
Alternative Display Trigger	Long Press P8
Options	
Reset to default display mode after (sec.)	3
Return to Label Page 1 after (s)	0 ?
Apply	

Fig. 2

- 1. On the phone's web interface, click **Function Keys** in the menu on the left. When the page is opened, the **Key Assignment** page is on-screen, as indicated by the **bold** font of its tab (Fig. 1). The four types of programmable function keys can be configured on this page.
- 2. Click the **SmartLabel** tab to open the settings for the appearance of the SmartLabels on the display (Fig 2). For the instructions on these settings, see "Display options for SmartLabel keys" on page 95.
- 3. If you make any modifications to the settings on either page, click **Apply** to save them before opening the other subpage or any other page of the phone's web interface, and before closing the web interface.

4. After you have clicked **Apply**, the button **Save** will appear at the top of the page. We strongly recommend clicking this button as well; any modifications not saved will be lost if and when the phone is unplugged from its power source or when there is a power outage.

Selected examples for function key programming

This chapter will show you a few examples for customizing function key settings to your needs and preferences, using the phone's web interface:

- First example: Extension monitoring and call pickup via one of the phone's SmartLabel keys
- Second example: Speed dialing with a SmartLabel key
- Third 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 registered at the same registrar, 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 extensions must permit this function. Setting: Phone's web interface > Identity (1-12)
 > SIP tab > Allow incoming Extension Monitoring. The default is on.
- Restricting permission to groups of users by setting an ID: Phone's web interface > Identity (1-12) > SIP tab > Extension Monitoring Group ID: Enter an ID (any character string) into the textfield. Note: The first character of the ID must not be a '{' curly brace.
- The extension to be monitored must be programmed onto one of the SmartLabel keys.
 In our example we are monitoring extension 705 on key P9 which is located on function key page 2.



- 1. On the phone's web interface, click **Function Keys** in the menu on the left.
- 2. Click the **Key Assignment** tab, if necessary.
- 3. Select Page 2 from the drop-down menu of Page.
- 4. Under **Context** of P9, select "Active" or one of the configured identities from the drop-down list.
- 5. Under **Type**, select "Extension" from the drop-down list.
- 6. In the **Number** text field, enter the phone number whose calls you want to pick up. In our example it is 705.
- 7. Select a display option from the drop-down menu of **Short Label Mode**. The default is "Icon and Text", i.e., an icon depicting the function on the key and the number or the short label text will be displayed on the display. name or descriptive text.
- 8. Select a display option from the drop-down menu of **Full Label Mode**. The default is "Icon and Text", i.e., an icon depicting the function on the key and the number or the short label text will be displayed on the display.
- 9. Optional: In the text fields of **Short Label** and **Full Label**, enter a name or descriptive text. In our example, it is "Tom" and "Tom Waterhouse", respectively. If either one or both of the text fields are empty, the label area will display the number.
- 10. Click Apply and Save.

Note: The page with the monitored extension(s) must be on-screen in order for the key's LEDs to show the status of the respective monitored extension.

The LED of key P9 on the phone will now flash red quickly when a call is ringing on 705 but only if page 2 is on-screen. If the call is not answered, you can pick it up by pressing key P9. When 705 is engaged in a call – **and page 2 is on-screen** – the key will glow red steadily.

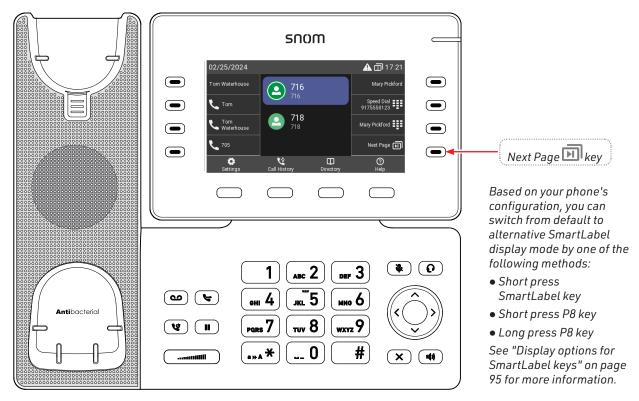


Fig. 1

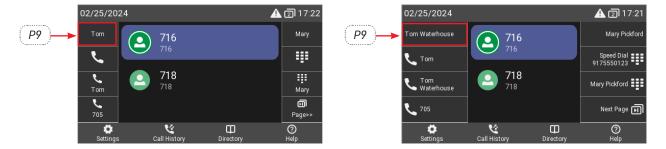


Fig. 2 - Short label mode

Fig. 3 - Full label mode

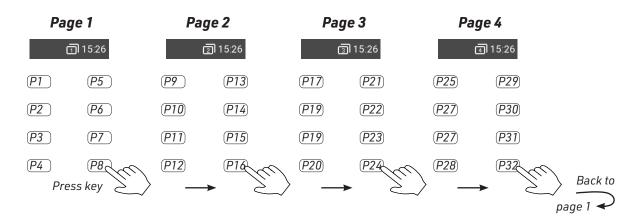
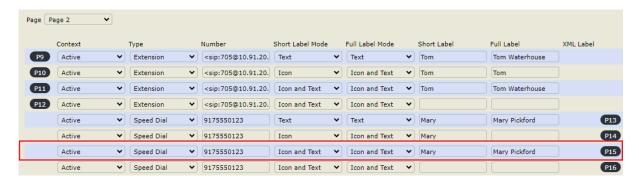


Fig. 4

Press the **Next Page** key to put page 2, 3, and 4 on-screen successively. When page 4 is on-screen, press key to return to page 1.

Example 2, 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 SmartLabel keys on the phone. In our example, key P15 on page 2 of the function keys will be used to speed dial the number 9175550123.



- 1. On the phone's web interface, click **Function Keys** in the menu on the left.
- 2. Click the **Key Assignment** tab, if necessary.
- 3. Select Page 2 from the drop-down menu of Page.
- 4. Under **Context** of P15, select "Active" or one of the configured identities from the drop-down list.
- 5. Under **Type**, select "Speed Dial" from the drop-down list.
- 6. In the **Number** text field, enter the phone number that you want to be able to speed dial. In our example it is phone number 555-0123 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) 555-0123. Type 9175550123 into the text field.
- 7. Select a display option from the drop-down menu of **Short Label Mode**. The default is "Icon and Text", i.e., an icon depicting the function on the key and the number or the short label text will be displayed on the display. name or descriptive text.
- 8. Select a display option from the drop-down menu of **Full Label Mode**. The default is "Icon and Text", i.e., an icon depicting the function on the key and the number or the full label text will be displayed on the display.
- 9. Optional: In the text fields of **Short Label** and **Full Label**, enter a name or descriptive text. In our example, it is "Mary" and "Mary Pickford", respectively. If either one or both of the text fields are empty, the label area will display the number.
- 10. Click Apply and Save.

You can now speed dial the number 9175550123 by selecting page 2 of the SmartLabels and pressing the LED key adjacent to the label.

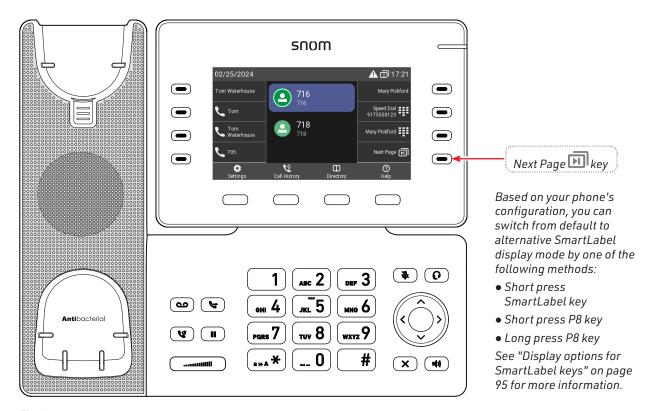


Fig. 1

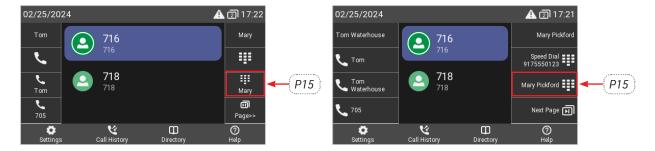


Fig. 2 - Short label mode

Fig. 3 – Full label mode

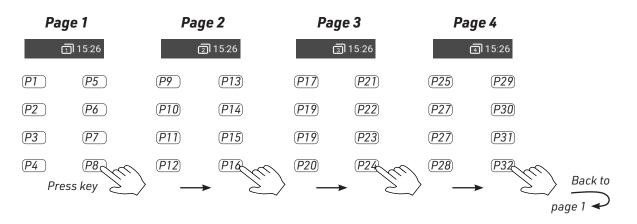
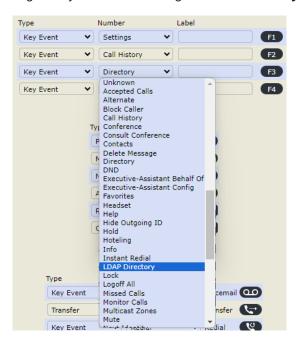


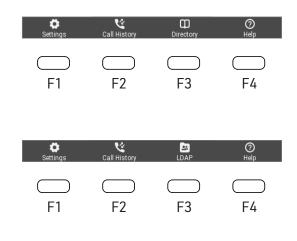
Fig. 4

Press the **Next Page** key to put page 2, 3, and 4 on-screen successively. When page 4 is on-screen, press key to return to page 1.

Example 3, Changing setting of context-sensitive key

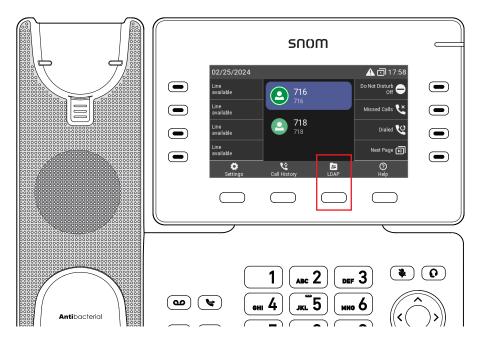
You can select a different key event to be available on the four keys under the display when the phone is in idle mode. You cannot change the functions that are available when the phone is active, for example when you are in a call, when the phone is ringing, etc. In the following example, the setting of key F3 will be changed from **Directory** to **LDAP Directory**.





- 1. On the phone's web interface, click **Function Keys** in the menu on the left.
- 2. Click the **Key Assignment** tab, if necessary.
- 3. Click the **Number** drop-down list of context-sensitive key F3 and select "LDAP Directory".
- 4. Click Apply and Save.

By pressing key F3 you now have direct access to your LDAP directory, if available and if the settings are provided on the phone's **Advanced Settings** page > **Network** tab > **LDAP** section.



Display options for SmartLabel keys

A number of settings control the appearance of the SmartLabels on the display; they can be set on the phone and on the phone's web interface. There are separate settings for the idle screen, call screens, and other screens. Settings options:

Default Display Mode and Alternative Display Mode. The display will revert to the default mode after the number of seconds set in Return to Default Mode have elapsed. The factory defaults are Short label for the Default display mode, and Full label for the Alternative Display Mode. You can also turn either one or both of them off.





Short label

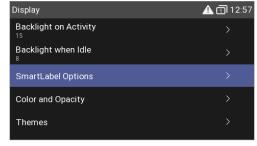
Full label

- **Alternative display trigger**. This setting defines how the appearance of the SmartLabels is switched from the default to the alternative appearance. The default setting is **off**.
- Return to Default Mode / Reset to default display mode after (sec.). This setting defines
 after how many seconds the appearance of the SmartLabels will automatically return to
 the default. Valid values are 0 to 360 seconds, the default is 3 seconds. Selecting 0 turns
 automatic reversion off.
 - Manually returning the display mode to the default: Press \times . The display mode will also return to the default setting when another key is pressed, e.g., a number key to open the dial screen, the directory key \square to access the phonebook, etc.
- **Return to label page 1 after (sec)/Return to first page**. This setting defines after how many seconds the key page shown on the display, if other than 1, will automatically return to the first page. Valid values are 0 to 1209600 seconds; the default is 0 (firmware version 10.x.).

Settings on the phone

Display mode settings

1. Press > Preferences > Display > Primary display (if there is at least one connected expansion module) > SmartLabel options (Fig. 1) and press.



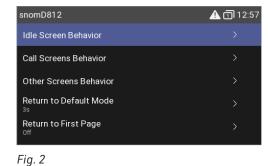


Fig. 1

2. Select Idle Screen Behavior, Call Screen Behavior, or Other Screen Behavior (Fig. 2) and

press. The default settings are indicated in **bold italic** in the table. The available options for the three different screens are:

	Idle screen	Call screens	Other screens
Default display	Off	Off	-
mode	Short	Short	-
	Full	Full	-
Alternative display	Short	Short	-
mode	Full	Full	_
Alternative mode	Off	Off	Off
trigger	Short Press P8	Short Press P8	Short Press P8
	Long Press P8	Long Press P8	Long Press P8
	Short Press SmartLabel	Short Press SmartLabel	Short Press SmartLabel

- 3. The configuration of the settings for all screens and other screens is done the same way.
 - Default Display Mode and Alternative Display Mode:
 - a. Select the display mode you want to change, for example the default mode (Fig. 3), and press. In the following example, the default mode is set to **Full** (Fig. 3 and 4), and we want to change it to **Short**.

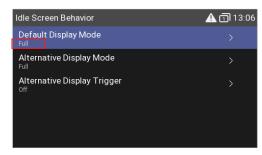
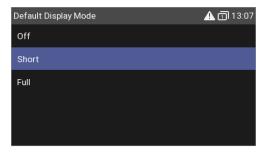




Fig. 3

Fig. 4

b. Use the navigation key \checkmark / \land to select **Short** (Fig. 5) and press to save and return to the **Screen Behavior** menu where the line underneath **Default Display Mode** now reads **Short** (Fig. 6).



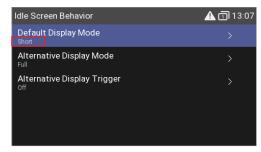


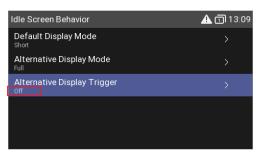
Fig. 5

Fig. 6

Alternative Display Trigger:

a. Use the navigation key \checkmark / \land to select **Alternative Display Trigger** (Fig. 7) and press

In the following example, the trigger is currently set to **Off** (Fig. 7), as indicated by the radio button (Fig. 8), and we want to change it to **Long Press P8.**



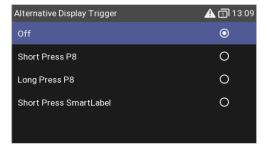
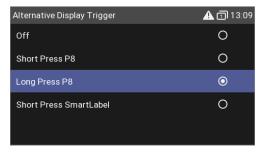


Fig. 7

Fig. 8

- b. Use the navigation key \checkmark / \land to select **Long Press P8** (Fig. 9).
- c. Press to save and return to the **Screen Behavior** menu where the line underneath **Alternative Display Trigger** now reads **Long Press P8** (Fig. 10).



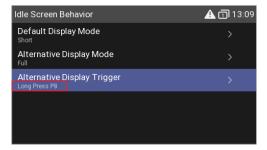


Fig. 9

Fig. 10

4. Press x to return to the **SmartLabel options** menu (Fig. 2).

Timer setting for returning display mode to default

- 1. Press > Preferences > Display > Primary display (if there is at least one connected expansion module) > SmartLabel options and press
- 2. Select **Return to Default Mode** (Fig. 11) and press. The preset default is 3 seconds.

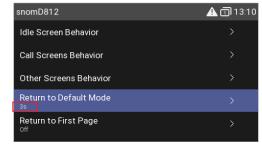




Fig. 11

Fig. 12

3. Enter a different number of seconds between 0 and 360 (Fig. 12) on the alphanumeric keypad and press to save and return to the **SmartLabel options** menu (Fig. 13). The timer now shows the new setting.

Note: If you enter 0 seconds, the display will not return to the default mode automatically.

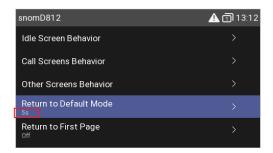
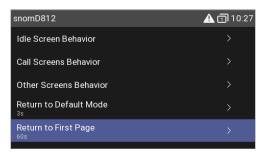


Fig. 13

Timer setting for returning label page to page 1

The page will automatically revert to page 1 after the number of seconds specified in this setting.

- Press → Preferences > Display > Primary display (if there is at least one connected expansion module) > SmartLabel options and press
- 2. Select **Return to first page** (Fig. 14) and press . The preset default is 60 seconds (Fig. 15).



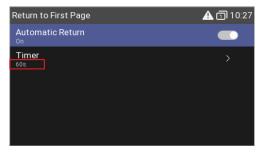


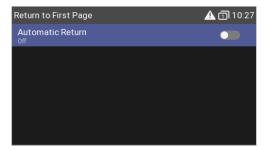
Fig. 14

Fig. 15

3. If Automatic Return is off (Fig. 16), press



If Automatic Return is on (Fig. 15), select Timer (Fig. 17) and press



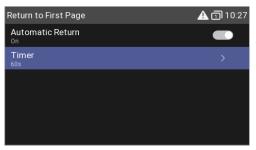


Fig. 16

Fig. 17

4. Enter a different number of seconds between 0 and 1209600 seconds (Fig. 18) on the alphanumeric keypad and press to save and return to the **Return to First Page** menu. The timer now shows the new seconds setting (Fig. 19).



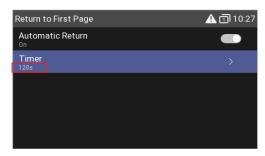


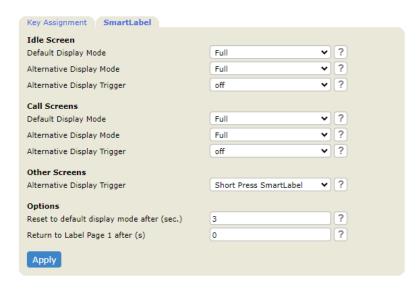
Fig. 18 Fig. 18

Note: If you do not want the on-screen page to return to page 1 automatically, select

Automatic return (Fig. 15), if not already selected, and press to turn off the function (Fig. 16). The **Timer** line is not visible in the **Return to First Page** menu after the automatic return has been turned off.

Settings on the web interface

- 1. On the phone's web interface, click **Function Keys** in the menu on the left.
- 2. Click the SmartLabel tab.



3. The default settings are indicated in **bold italic** in the table. The available options for the three different screens are:

	Idle screen	Call screens	Other screens
Default display mode	Short	Short	-
	Full	Full	_
	Off	Off	-
Alternative display	Full	Full	-
mode	Short	Short	-
Alternative mode	Off	Off	Off
trigger	Short Press SmartLabel	Short Press SmartLabel	Short Press SmartLabel
	Short Press P8	Short Press P8	Short Press P8
	Long Press P8	Long Press P8	Long Press P8

4. Click the drop-down list of the setting you want to change and select a setting.



- 5. If you want to change the default timer settings for returning the display mode to the default and the SmartLabel page to page 1, type the number of seconds into the respective text fields.
- 6. Click **Apply** and **Save** before closing the page or opening another page on the phone's web interface.

Customizing the phone settings

See "The phone's web interface" on page 40 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 44 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 the question mark icon 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 81.

Note: Any changes you make on the web interface will not take effect until you click **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 **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".

Note: 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 "Initializing and registering the phone" on page 17 for more information on required input data.

Configuring and editing identity/account

The settings are accessible in administrator mode only. In user mode it is possible to select a different outgoing identity and to reregister active identities.

On the phone

Press > Identity > Edit identity > Hotdesking > select a free identity with > and enter account and registrar. If you want or need to enter more data, use > Identity > Edit identity > Edit identity > select a free identity with > or its number in the menu. Available menu items:

1 Active [Yes]

2 Displayname

3 Displaynumber

4 Account

5 Password

6 Registrar

7 Outbound Proxy

8 Authentication Username

9 Mailbox

10 Mailbox Dial-in

On the web interface

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

If you change the account or the registrar, click **Re-Register** and **Save**. If you make other changes, clicking **Apply** and **Save** suffices (see "How the web interface works" on page 42).

- **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 113). 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.
- 2. **SIP settings**. Click 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: Auto Answer. The default setting is "off".
 - Acoustic alert (one short beep) when the phone accepts a call automatically: **Preferences** > **Audio** tab > **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". 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 want 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. 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.

Note: If you want the activity on the monitored phones to be displayed on your idle screen, enable the **Go to Call-Monitor on Activity** on the **Advanced Settings** page > **Behavior** tab > **Phone Behavior** section.

- 3. Audio settings. Click the Audio tab to bring the page to the front. It contains ringtone settings.
 - Ringtone
 - 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 103.

Assigning ringtones

The phone has 10 built-in ringtones that can be assigned to identities, group types, and the contact type "VIP". 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 from 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 "Ringtones" on page 47.

Selecting identity ringtones:

- On the phone: Preferences > Audio > Ringer. If there is more than one configured identity on the phone, they are shown on the display.
 - Select an identity with \checkmark / \land , if necessary, and press to show the list of ringtones for the selected identity. The current ringtone is indicated by the radio button marked "on".
 - Selecting a different ringtone.
 - Press ✓ / ∧ to navigate up and down the list of ringtones.
 - Press ₹ / ≈ jump to navigate up and down the list a page at a time.
 - Press D to play the selected ringtone.
 - Press to save the selected ringtone as the new ringtone for the identity and return to the audio screen.
- On the web interface (the ringtones will be played by the phone): Identity (1-12) > Audio tab.
 - Click **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 Apply and Save.

Date and time formats

Date and time formats can be set on the phone and on the web interface. The defaults are US time format and 24-hour clock (Fig. 1 and 2). European date and time formats are shown in Fig. 3 and 4, US date and time formats in Fig. 5 and 6.

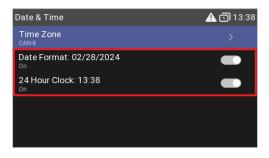




Fig. 1

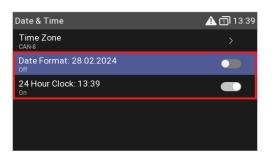


Fig. 2

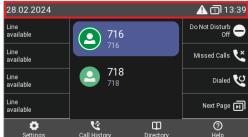


Fig. 3

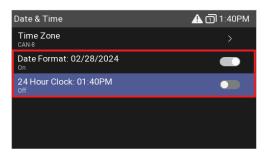


Fig. 4

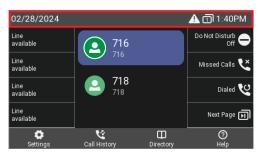


Fig. 5 Fig. 6

Date

- Phone settings.
 - 1. Press > Preferences > Date & Time. The default setting is US date format.

	US Date Format	
Date	Setting "On"	Setting "Off"
March 5, 2024	03/05/2024	05.03.2024
March 12, 2024	03/12/2024	12.03.2024
December 5, 2024	12/05/2024	05.12.2024
December 10, 2024	12/10/2024	10.12.2024

2. To change the date format from Month/Day/Year (Fig. 1, above) to Day.Month.Year (Fig. 3,

above), scroll down to **Date format** and press



- 3. Press x briefly to return to the previous menu or for three seconds to return to the idle screen.
- Web interface settings.
 - Open the Preferences page > General Information section > Appearance tab > U.S. Date Format (mm/dd). The default is "on".
 - Select "on" to have the date shown on the phone's display in "mm/dd/yyyy" format.
 - Select "off" to have the date shown on the phone's display in "dd.mm.yyyy" format.
 - 2. Click **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. The default setting is 24-hour clock.

- · Phone settings.
 - Press > Preferences > Date & Time.
 - 2. To change the **24 Hour Clock** setting from **on** (Fig. 1, above) to **off** (Fig. 5, above), scroll down to it and press
 - 3. Press x briefly to return to the previous menu or for three seconds to return to the idle screen.
- Web interface settings.
 - 1. Open the **Preferences** page > **Appearance** tab > **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, 12:01AM to 12:00PM.
 - 2. Click Apply and Save.

Time zone

Note: The time zone setting is accessible in administrator mode only.

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 > Preferences > Date & Time > Time Zone.





Fig. 1

Fig. 2

- Press = to collapse the list to show only selected times zones and/or locations where the phone language is spoken). When the phone language is English, all time zones are shown (Fig. 1).
- When only selected time zones and/or locations are shown (Fig. 2), press \equiv to show all.
- Press ♥ / ♠ to fast-forward to the beginning of the next or the preceding time zone, respectively.
- ∘ Press ∨ / ∧ to scroll down or up one item at a time.
- 2. Press to save your selection and to return to the **Date & Time** menu.
- 3. Press priefly to return to the **Preferences** menu or for three seconds to return to the idle screen.

On the web interface

- 1. Open the **Advanced Settings** page > **Network** tab > **Time** section > **Time zone**.
- 2. Select your time zone/country/city from the drop-down list.
- 3. Click Apply and Save.

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 ♦ > Preferences > Language.
- 2. Press **✓** / **∧** to scroll to a language.
- 3. Press [₹] / [↑] to scroll a page at a time

- 4. Press to save the selected language and to return to the **Language** menu.
- 5. Press briefly to return to the **Preferences** menu or for three 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 Apply and Save.

Web interface language

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

Dial tones

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

Setting on the phone

- 1. Press ❖ > Preferences > Audio > Tone Scheme.
- 2. Press ✓ / ∧ to scroll to a country.
- 3. Press ₹ / ♠ to scroll a page at a time.
- 4. Press to save the selected country and return to the **Audio** menu.
- 5. Press x briefly to return to the **Preferences** menu or for three seconds to return to the idle screen.

Setting on the Web Interface

- 1. Open Preferences page > Audio tab > Tone Scheme.
- 2. Select the country from the drop-down list.
- 3. Click Apply and Save.

Emergency numbers

These are numbers that can be dialed when the keyboard is locked. They must be set beforehand on the web interface. The numbers "911", "112", "110", and "999" are preset.

- Open Preferences > General tab > General Information section > 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. Optional: In the **Privacy Settings** section, you can set a **PIN to unlock** (numerals 0-9), to be prompted for unlocking the keyboard.
- 4. Click Apply and Save.

Keyboard Locking

In the default setting, the keyboard can be locked for outgoing calls except for calls to the numbers defined as emergency numbers (see "Emergency numbers" on page 107) by pressing '...* for three seconds; it is unlocked by pressing the star key again for three seconds. Setting a PIN for locking and unlocking the keyboard is optional. On the web interface, the ability to lock the keyboard can be turned off. You can also define a time period of inactivity after which the keyboard will be locked automatically.

Setting a PIN for locking and unlocking

Valid values are the digits 0-9. When you enter the digits—both on the phone and on the web interface—they are replaced by asterisks or dots.

- 1. On the web interface, click **Preferences** in the left menu.
- 2. Click the General tab.
- 3. Scroll to the **Privacy Settings** section.
- 4. Click **PIN to unlock** and enter the PIN.

Note: The text field always contains 8 dots, whether a PIN has been set or not and regardless of the length of the PIN.

5. Click Apply.

Allow/disallow keyboard locking

In the default setting, the function is enabled. Setting on the web interface:

- 1. On the web interface, click **Preferences** in the left menu.
- 2. Click the General tab.
- 3. Scroll to the **Privacy Settings** section.
- 4. In **Allow keyboard locking**, click the toggle swith to turn keyboard locking **on** or **off**. The default setting is **on**.
- 5. Click Apply.

Automatic keyboard locking after inactivity

In the default setting, the function is disabled (blank text field). Valid values are positive integers. Setting on the web interface:

- 1. On the web interface, click **Preferences** in the left menu.
- 2. Click the General tab.
- 3. Scroll to the **Privacy Settings** section.
- 4. In **Lock keyboard after (s)**, enter the period of inactivity in seconds. The default setting is 0 (zero) seconds.
- 5. Click Apply.

Call forwarding

This feature automatically redirects all or certain incoming calls to another phone or a mailbox. Call forwarding is configured for each identity separately. On the web interface, the settings are configured on the **Configuration identity** (1-12) pages. If you set call forwarding on the phone, the settings are applied to the identity selected as the outgoing identity at the time of the configuration; the configuration must be repeated with the same or different settings for each identity.

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 79.

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 Identity (1-12) > Features tab > Call Forwarding section > 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 **Apply** and **Save**.
- Forwarding incoming calls when the phone is busy:
 - 1. Open Identity (1-12) > Features tab > Call Forwarding section > 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 **Apply** and **Save**.
- Forwarding incoming calls when they are not answered:
 - 1. Open Identity (1-12) > Features tab > Call Forwarding section > Timeout.
 - 2. Type the number of seconds into the text field of **Timeout (sec)**. If an incoming call hasn't been answered when the time has elapsed, the call will be forwarded to the phone number entered as target.
 - 3. 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.
 - 4. Click Apply and Save.

Turning call forwarding on

- 1. Web interface > Identity (1-12) > Features tab > Call Forwarding section.
- 2. Click "On" after the forwarding event (Always, Busy, Timeout).
- 3. Click Apply and Save.

Turning call forwarding off

- 1. Web interface > **Identity** (1-12) > **Features** tab > **Call Forwarding** section.
- 2. Click "Off" after the forwarding event (Always, Busy, Timeout).
- 3. Click 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". For more information, see "Call completion" on page 60.

Note: This function must be supported by your VoIP provider and/or your PBX.

On the phone

- 1. Press ♣ and select Call Features > Outgoing Calls > Call Completion.
- 2. Press to change the setting from **Off** to **On** and vice versa.
- 3. Press x briefly to return to the **Call Features** menu, press x for three seconds to return to the idle screen.

On the web interface

Open the phone's web interface > **Advanced Settings** page > **Behavior** tab > **Phone Behavior** section > **Call completion**: Click the radio button **on** or **off**.

Call waiting

Default setting: When in a call, another call coming in is announced visually in the status line and acoustically by a double beep. See "Call waiting" on page 63 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: The call waiting is not announced visually or acoustically; callers hear the busy signal.

Call waiting is set independently for each identity. If you use the phone to change the setting, it will apply to the current outgoing identity only; if you want it to apply to any other identities on the phone, you must select each one in turn as the outgoing identity and repeat the setting for each one.

Setting on the phone

The setting is applied to the outgoing identity at the time it is saved. If you want to change the setting for other identities, select each one as the outgoing identity in turn and repeat the steps.

1. Press ❖ > Call Features > Incoming Calls > Call Waiting.



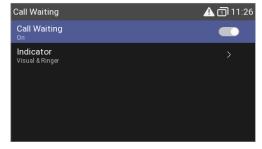


Fig. 1



Fig. 2

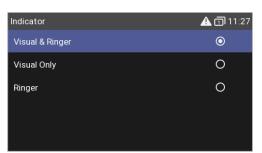


Fig. 3

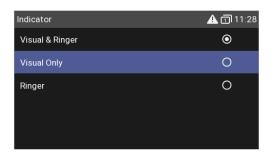


Fig. 4



Fig. 5

Fig. 6

- To turn call waiting on and off, select **Call waiting** and press (Fig. 1 and 2). When call waiting has been turned off, **Indicator** is no longer available in the menu (Fig. 1).
- To change the way call waiting is announced, select **Indicator** and press (Fig. 3

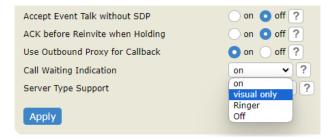
The **Indicator** menu appears (Fig. 4). Select a setting (Fig. 5) and press to save the change and return to the **Call waiting** menu (Fig. 6). The **Indicator** setting now indicates the new setting, for example, if you changed the default setting of "Visual & Ringer" (Fig. 5) to "Visual only" (Fig. 6).

2. Press $\stackrel{\times}{}$ briefly to return to the **Incoming calls** menu, press $\stackrel{\times}{}$ for three seconds to return to the idle screen.

Setting on the web interface

Call waiting is set independently for each identity.

- 1. In the menu on the left, click the **Identity** (1-12) whose call waiting settings you want to change.
- 2. Click 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 by the double beep, respectively.



4. Click 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 "Rejecting anonymous calls" on page 114). The default setting is off.

Setting on the phone

- 1. Press and select Call Features > Outgoing Calls > Hide own outgoing ID.
- 2. Press to change the setting from **No** to **Yes** and vice versa.
- 3. Press x briefly to return to the previous menu, press for three seconds to return to the idle screen.

Setting on the web interface

- Open Identity (1-12) page > Login tab > Privacy Settings section > Suppress own Number (CLIP/CLIR).
- 2. Select the radio button **Hide** or **Show**.
- 3. Click 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. The default is off.

Setting on the phone

- 1. Press ♣ and select Call Features > Incoming Calls > Reject anonymous.
- 1. Press to change the setting from **No** to **Yes** and vice versa.
- 2. Press x briefly to return to the **Call Features** menu, press for three seconds to return to the idle screen.

Setting on the web interface

- 1. Open the **Preferences** page > **General** tab > **Privacy Settings** section > **Reject Incoming Anonymous Calls**.
- 2. Select the radio button Reject or Accept.
- 3. Click Apply and Save.

QuickLookup

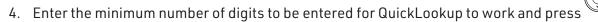
When you have typed the minimum number of digits you have specified for this function, the phone will look for phone numbers containing that string of numbers in its call lists and directories and, if it finds matches, show the phone number(s) on the display.



The default setting is on. You can turn the setting on and off on the phone and on the web interface. You can also change the minimum number of digits on the phone and web interface.

Setting on the phone

- 1. Press ♣ and select Preferences > General > QuickLookup.
- 2. Press to change the setting from **On** to **Off** and vice versa.
- 3. Select **QuickLookup Start Length** and press



5. Press x briefly to return to the **Preferences** menu, press x for three seconds to return to the idle screen.

Setting on the web interface

This setting requires administrator mode.

- 1. Open Preferences page > General tab > Contact Search section > QuickLookup.
- 2. Select the radio button on.
- 3. Type the minimum number of digits in the text field of **QuickLookup Start Length**.
- 4. Click Apply and Save.

Speed dial

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

Note: You can also map a phone number onto one of the SmartLabel keys. See "Example 2, Speed dialing" on page 92 for the instructions.

Setting on the phone

- 1. Press and select **Call Features** > **Speed dial**. Phone numbers currently assigned to any speed dial numbers are indicated in the line underneath the respective speed dial number (Fig. 1).
- 2. Use \checkmark / \land to scroll down or up one number at a time (Fig. 1).

Shortcuts: When the selected number is " $\mathbf{0}$ ", press \wedge to go to "30"; when the selected number is " $\mathbf{30}$ ", press \vee to go to "0".

- 3. Type the phone number into the text field without spaces or punctuation between the digits (Fig. 2).
- 4. Press to save and to return to the **Speed dial** menu where the phone number has been added to the speed dial number (Fig. 3).
- 5. Press x briefly to return to the **Call Features** menu, press x for three seconds to return to the idle screen.

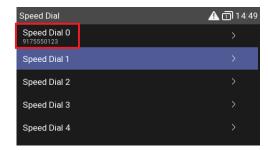




Fig. 1

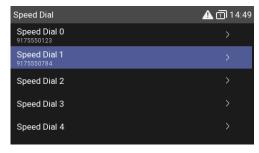
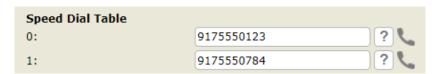


Fig. 3

Fig. 2

Setting on the web interface

- 1. In the menu on the left side of the phone's web interface, click **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 in the table.



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

For example: You want to be able to speed dial phone number 555-0784 in area code 917 by typing on the keypad. In conventional notation you might write the number down as (917) 555-0784. In the speed dial table, type 9175550784 into the text field of the number 1.

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

Note: You can also configure the SmartLabel keys (P1-P32) to dial one specific number each. See "Example 2, Speed dialing" on page 92 for the instructions.

D812 User Manual Software Update

Software update

Manual update

1. Open a browser and enter the address https://service.snom.com/display/wiki/Firmware+Update+Center.

- 2. In the "Desk Phones" section, click the link for the firmware version you want to update to.
- 3. On the next web page, scroll down to the "Downloads" / "Firmware Files" section.
- 4. In the table, scroll down to the **Phone Model** row for D812 and right-click the corresponding **Download Link** file.
- 5. Click **Copy link location** or **Copy link address** (wording depends on your browser).
- 6. Open the phone's web interface > **Software Update** page.
- 7. In the Web Interface > **Software Update** > **Manual Software Update** section, paste the link into the text field of **Firmware**.
- 8. Click **Load**. The phone begins to reboot.
- 9. If the phone asks "Reboot?", press



Auto provisioning

For more information, see our web page https://service.snom.com/display/wiki/ Auto+Provisioning.

- 1. Open the phone's web interface > **Advanced Settings** page > **Update** tab.
- 2. Please click the question mark icon of each line and read the information on each setting on its Wiki page **before** you configure the setting.
- 3. Click **Apply**. If you have the changed the setting URL and/or the PnP configuration, a reboot is required before they will take effect.

SRAPS

If you are using Snom's Secure Redirection and Provisioning Service (SRAPS), you can log in to your account at https://sraps.snom.com. For more information, see https://service.snom.com/display/wiki/SRAPS.

D812 User Manual Troubleshooting

Troubleshooting

Reboot

1. Press 🌣









Hard reboot

Disconnect the power, wait for 10 seconds, and reconnect. Wait for the idle screen to reappear.

Warning: Never disconnect the power during a firmware update!

Reset to factory values

The phone can be reset to factory values in administrator mode only.

Warning: All customized settings will be lost!

- 1 Press 🌣
- 2. Select **Maintenance** and press
- 3. Select **Reset values** and press
- 4. Enter the administrator password and press
- 5. See "Initializing and registering the phone" on page 17 on how to continue.

TFTP Update

When there is no other way to get the phone to work (administrator password lost, etc.). How it is done: See https://service.snom.com/display/wiki/Updating+the+firmware%2C+recovery+via+Network.

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.



D812 User Manual Troubleshooting

Contacting Snom Support

If you are not a Snom partner, please contact your seller, visit our Snom Service Hub at https://service.snom.com/ or our helpdesk at https://helpdesk.snom.com/support/home first. You may find the answer to your question or problem 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 at https://service.snom.com/display/FORUM.

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.

Submitting a ticket

If you are a Snom partner, log in to the Snom helpdesk and open a ticket: https://helpdesk.snom.com/support/solutions. You'll find the instructions here: https://helpdesk.snom.com/support/solutions.

Submitting system and settings information

System information

- 1. Open the phone's web interface > **System Information** page.
- 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 in the public forum posting.

Settings information

- 1. Open the phone's web interface > **Settings** page.
- 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 data 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 > **SIP Trace** page.
- 2. Click **Clear** to clear the page.
- 3. Recreate the error to be documented in the trace.

D812 User Manual Troubleshooting

- 4. Click Reload.
- 5. Copy the text and submit to Support in whatever form they requested you to use.

If it is the public forum, make sure to delete private and/or security-relevant data like the MAC address, public IP address, etc.

Performing a PCAP Trace

- 1. Open the phone's web interface > **PCAP Trace** page.
- 2. Click **Start** to start recording network traffic.
- 3. Click **Stop** to end recording.
- 4. Click **Save** to download and save the file.
- 5. Submit the file to Support in whatever way they requested you to use.

If it is the public forum, make sure to delete private and/or security-relevant data like the MAC address, public IP address, etc.

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 22 for the default settings.

a	ACD	
<u>ٽرٽ</u>	Turning Auto Answer on and off (blue symbol = Auto Answer is on)	
(b) / (b)	Turning Call Forward all calls on and off (blue symbol = Call Forward is on)	
	Intercom	
===	Speed Dial	
>	Transfer	
(no icon)	XML Definition	

Key Event Symbols

Accepted Calls
Alternate
Block Caller
Call History
Conference
Consult Conference
Contacts
Delete Message
Directory
DND (red symbol = DND is on)
Executive-Assistant Behalf of
Executive-Assistant Config
Favorites
Headset

?	Help
A	Hide Outgoing ID
II	Hold
⊕	Hoteling
i , i	Info (blue symbol = new info messages)
C	Instant Redial
<u>.</u>	LDAP Directory
(no icon)	Lock
(no icon)	Logoff All
Ç×.	Missed Calls
<u>_</u>	Monitor Calls
(c q 2)	Multicast Zones
J	Mute
	Next Identity
M	Next Page
(no icon)	None
<u></u>	OCI-P Directory
•	Pool
Q	Presence
□ T	Previous Identity
I ◀	Previous Page
	Private Hold
Ф	Reboot
(no icon)	Record
C	Redial
	Server Directory
•	Settings
Ţ	Silent Mode
٥٥	Voicemail
00	Voicemail Info

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 returning to the previous screen	
<u>1a</u>	Switching input mode to lower case letters	
aA	Switching input mode to upper case (capital) letters	
<u>A1</u>	Switching input mode to numerals	
(X)	Deleting the character to the left of the cursor	
•	Available directories, contact lists, etc.	
= \$	Sorting Directory entries	
•	Adding Directory entries	
<i>≡</i> /*	Editing mode for selected Directory entry	
×	Deleting selected directory/call list entry	
⊕(Details of missed calls (to, from, date/time, total number) and of received and dialed calls (to, from, date/time, duration)	
₽.	Deleting entire call list	
*	Moving to beginning of next time zone	
\$	Moving to beginning of previous 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)	
II	Put call or conference on hold	
(Unhold/retrieve call	
00/00	Show held caller/callee on-screen	
\triangle	Establishing conference with all calls on hold	
04/40	Show next participant or entire conference ○△ / △○ on-screen	
>	Transfering call	
-	Transfering call safely	
4 (1)	Turning on the casing speaker	
<u>u.l</u>] ;)	Turning off the casing speaker	
80	Putting call waiting on-screen. See "Call waiting" on page 63 for more information.	

⊘		When in call, show next ringing call or call waiting	
	♥ When in call, the next call screen will be your current call		

SmartLabel function symbols

These are the symbols displayed in the SmartLabel area of the programmable function keys P1-P32 when the function key page with the configured key is on-screen. For information on the configuration of the keys see "Configuring the function keys" on page 81.

Programmable function symbols

These are the symbols of the functionalities selectable under **Type**. Please note that not all available functionalities are represented by a symbol. If the selected type is "Key event", please see the table "Key event symbols" on page 125.

=	Action URL	
~/~	Turning Auto Answer on and off (blue symbol = Auto Answer is on)	
	Busy lamp field (BLF) (idle / ringing / talking)	
	Button	
Ø/O	Call Center Status (Unavailable / Empty)	
()	(Normal / Exceeded)	
\	Turning Call Forward all calls on and off (blue symbol = Call Forward is on)	
×	Cancel	
\triangle	Conference	
^	Disposition Code	
	DTMF	
L / X /	Extension (idle / ringing / in use)	
= / =	Turning Intercom on and off (green symbol = Intercom is on)	
#	IVR (Interactive Voice Response)	
(no icon)	Line (Idle)	
2	Line (Outgoing call ringing)	
	Line (Incoming call ringing)	
(5)	Line (Connected)	
1	Line (Holding call)	
<u></u>	Line (Call being held by other party)	

(t T 1) / (tT1)	Turning Multicast paging on and off (green symbol = Multicast paging is on)	
✓	ОК	
P/P	Park call (none/available)	
Q	Presence	
<u>•</u> 1)	Push-to-Talk	
O / O	Turn voice recorder on and off (red symbol = voice recorder is on)	
SIP	SendSipInfo	
₩.	SmartTransfer	
===	Speed Dial	
*	Star Code	
6	Transfer ringing or current call	
SIP	UserInputAndSendSipInfo	
XML	XML Definition	

Key event symbols

&	Accepted Calls	
\leftrightarrow	Alternate	
C	Block Caller - reject current and all future calls from the number	
C	Call History	
△,△	Conference (not established / established)	
△,△	Consult Conference (not established / established)	
	Delete message	
	Directory (internal phonebook)	
	Turning DND on and off (red symbol = DND is on)	
	Executive-Assistant Behalf of	
O	Executive-Assistant Config	
*	Favorites	
@/ @	Turning headset on and off (blue symbol = headset is on)	
?	Help	
A/A	Turning Hide Outgoing ID on and off (green symbol = on)	
U / ©	Hold / Retrieve call (blue symbol = Retrieve)	
o=	Hoteling login	

i , i	Info (blue symbol = new info messages)	
CO	Instant Redial	
24	LDAP directory	
□ ÷	Logoff All	
L ×	Missed calls	
도	Monitor calls	
((🕶))	Multicast zones	
J / 💸	Mute/unmute microphone (red symbol = microphone is mute)	
 	Next Identity	
H	Next Page	
(no icon)	None	
<u>•</u> •	OCI-P Directory	
=	Pool	
9	Presence state	
I	Previous Identity	
H	Previous page	
	Private Hold	
Ф	Reboot	
O / O	Record voice is off/on (red symbol = call is being recorded) - check local regulations whether call recording is allowed. Phone does not have built-in voice recorder.	
C	Redial	
≥	Server directory	
*	Settings menu	
ŮΊ	Turning Silent Mode on and off (green symbol = on)	
(no icon)	Unknown	
00	Voicemail	
٥٥	Voicemail Info	

Display indications

On activity

2	Outgoing call ringing
	Incoming call ringing
(5)	Connected (single connection or conference)
•	Call ended/terminated
8	Dialed number is busy
•	Holding call
-	Call being held by other party

On idle screen



Outgoing identity

- The current outgoing identity is indicated by a green circle surrounded by a white and a green ring. When you call someone, this is your identity for the call.
- Select a different identity for the next call by pressing \wedge or \vee on the navigation key.



Active identity

- Other configured and active identities are indicated by a green circle.
- Active identities can be called.



Identity not properly registered

By changing the status of an identity to "inactive" on the phone's web interface, it is deregistered without removing its registration settings. Inactive identities are not shown on the idle screen. They cannot be called or selected as the outgoing identity. To deregister the identity, open the phone's web interface > **Identity** (1-12).

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



Forwarding incoming calls (all, when busy, after timeout):







Symbols found in the Info/Status bar

These are the symbols displayed in the Info/Status bar at the top right of the phone screen.

6	Handset is offhook
I ())	Speakerphone is on
\bigcirc	Headset is on
Ŕ	Silent mode is on (ringer is silent)
	Do Not Disturb (DND) is on
G	Call Forward is on
(55	Call Completion is active (waiting for desired nuber to become available)
123	Keyboard is locked
	Expansion module is connected to phone
	Hide outgoing ID
£x	Missed calls
	Important messages are available.
1	SmartLabel page 1 is currently displayed
2	SmartLabel page 2 is currently displayed
3	SmartLabel page 3 is currently displayed
4	SmartLabel page 4 is currently displayed

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, if it not available, > Information > Status Info) to open the Status info screen. Additionally, some status messages will also be displayed on the display; 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</account>	The specified identity/account is not registered
Waiting for <name number=""> to be available ²</name>	Waiting for call completion to busy or currently unavailable number
<account> is now available 2</account>	The dialed number is not busy anymore or is now available
Forward when Busy: <name number=""></name>	Call forwarding is on. When your phone is busy, incoming calls will be forwarded to the phone number indicated
Forward Calls after <timeout>: <name <br="">number></name></timeout>	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</name>	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
NTP server unreachable ¹	synchronizing clocks over data network. If the connection is interrupted, the phone will not be able to display the correct time.
HTTP Password not set ¹	No HTTP password has been set
Admin Password not set ¹	No Administrator password has been set
Keyboard locked ²	Only numbers designated as emergency numbers can be dialled
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></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 appear blue

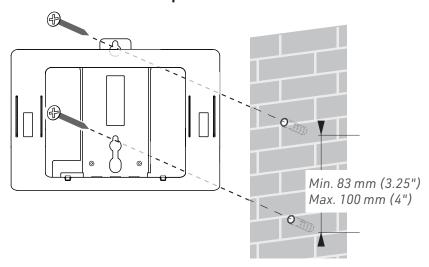
² The message cannot be deleted from the "Status Info" screen

Appendix 3 - Wall Mounting

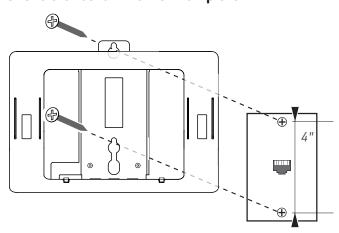
The bracket for wall mounting is available separately. Please, contact your seller or distributor for more information. Not included in the delivery are the two screws (diameter of head between 6 and 9 mm, diameter of body max. 4.5 mm) and two screw anchors/molly bolts/wall plugs appropriate for your type of wall.

The bracket is suitable for mounting the phone over American standard Ethernet wall plates and for mounting it on the wall without the wall plate.

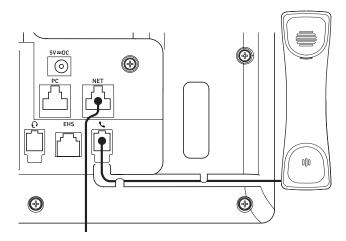
• On the wall without wall plate.



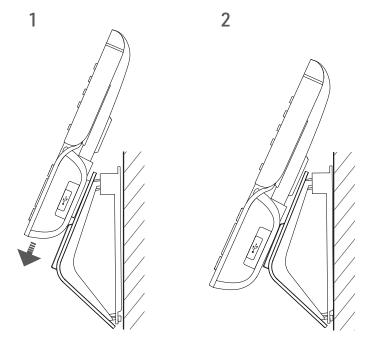
• Over a standard Ethernet wall plate.



- 1. Place the anchors for the screws in the wall using the measurements given above.
- 2. Screw the bracket to the wall without or with the wall plate.
- 3. Plug the handset cord into the port labelled "\" on the back of the phone and place the cord in the cable guide.
- 4. Plug the Ethernet cable into the port labelled "**NET**" on the back of the phone.



- 5. If you are using a wall plate, plug the Ethernet cable into the port on the plate.
- 6. Slide the phone onto the wall bracket until it clicks into place.



7. To hold the handset more securely on the tab of the cradle, rotate it 180° so that it protrudes slightly above the rim of the cradle. See "Rotating the tab of the cradle" on page 13.

Appendix 4 - Programmable Functions

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

Freely programmable functions

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 https://service.snom.com/display/wiki/HowTo+-+LED+Remote+Control .
Call Center Status	Displays queue status of a registered call center.
Call Forward	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.
Cancel	Simulates pressing the CANCEL key . Behavior depends on phone's current state and context, and configuration of the CANCEL hard key .
Conference	This function key can be used for PBX-based conferences and for local conferences on the phone itself.
	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.
Consult	Conference status indication
Conference	Conference setup (both local & network conference)
	Add participant to established network conference

Disposition Code	Sends a disposition code to the Broadsoft server.
DTMF	This funcion 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.
Extension	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.
Intercom	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").
	"Intercom Policy" settings on the phone being called via intercom:
	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.
	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.
	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.
(Interactive Voice Response)	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.
	The syntax for the "Number" text field entry is <phone_number>;dtmf=<n>,<n>, etc. The angle brackets <> 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.</n></n></phone_number>
	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: 9175553814;dtmf=1,3,1.
	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.
	(If the function type "IVR" doesn't work on individual phones, try "Speed dial" with the above description.)
Key Event	When this key type is selected, a drop-down menu opens under "Number". For the available selections, see "Key Events" on page 136.
Line	Default setting for all SmartLabel keys. Incoming calls will go to the first free "line" key, and outgoing calls will use the first free line key.
	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.

Multicast	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 <multicast address="" ip="">:<port> (e.g., 239.255.255.245:5555). The angle brackets <> including their content are placeholders for the variables that you must replace by the actual characters. 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.</port></multicast>
ОК	Simulates pressing the OK key . Behavior depends on phone's current state and context, and configuration of the OK hard key .
Park	If a park orbit has been set up on the server, a function key mapped with the Park 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 Identity (1-12) 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.
Presence	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.
Push-To-Talk	Pressing the function key mapped with "Push-to-Talk" 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").
Record	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.
SendSipInfo	Send SIP INFO request.
SmartTransfer	Show the SmartTransfer Target screen.

Speed Dial	Besides using the "Speed Dial" page on the web interface to program speed dial numbers, you can also put the functionality on the SmartLabel keys to be able to speed dial frequently used and/or long numbers without having to enter the complete phone number.
	Enter one phone number with any required prefixes (area code, country code, operator/auto attendant, etc.) in the "Number" text field for any given SmartLabel key. Example: 0019175557813.
	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.
Star Code	Making SIP calls without audiovisual indication on the phone user interface (PUI).
	Examples for using this feature:
	 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.
	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".
Transfer	Transfer 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.
	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.
	For further information, see "Transferring calls" on page 69.
UserInputAnd SendSipInfo	Show screen to ask for user input that will be used to send SIP INFO.
XML Definition	An XML Definition is a ruleset (defined through XML syntax) specifying a particular behavior. All of these rules and behaviors are Snom specific and do not apply to any other vendor.
	XML Definitions allow the user to create keys that are fully customized based on their specific needs.
	For more information, visit https://service.snom.com/display/wiki/XML+Definitions

Key Events

Accepted Calls	(Accepted List) List of calls accepted on the phone
Alternate	Switch between short and full label mode
Block Caller	• End call
	For an incoming call, mark the contact as "deny" in the Directory
Call History	Call history list (missed, received, dialed calls)
Conference	Start a conference during an active call
	Show setup screen for an ad hoc conference
Consult	Conference status indication
Conference	Conference setup (both local & network conference)
	Add participant to established network conference
Contacts	Used with the Presence feature. Provides access to the Contact List, where the Presence State of selected users can be seen (online, busy, offline)
Delete Message	Clear the current desktop message.
Directory	Internal phone directory
DND	Turning "Do not disturb" function (DND) on and off. When mapped to a function key with an LED, the LED will light up when DND is turned on.
Executive- Assistant Behalf Of	Corresponds to Executive / Executive Assistant feature (visit https://service.snom.com/display/wiki/Configuration+and+Use+of+Executive+Assistant+Feature).
	Arranges for a Call On Behalf of one of the assigned Executives provided the following conditions are met:
	Executive / Executive Assistant feature has been enabled for an identity by provisioning and is configured to be an Executive Assistant:
	And in any of the following scenarios:
	 User enters one or more digits on Dialing screen excluding dialing screen for Transfer setup, Conference setup, Forward setup
	 When a contact entry is highlighted in Directories (e.g. Local, LDAP, Broadsoft, XMPP, etc.) where an OK key will perform regular dialing
	 When an entry is highlighted in Call History (e.g. All, Missed, Received, Dialed etc.) where an OK key will perform regular dialing.
Executive Assistant - Config	Corresponds to Executive / Executive Assistant feature (visit https://service.snom.com/display/wiki/Configuration+and+Use+of+Executive+Assistant+Feature).
	If Executive / Executive Assistant feature has been enabled for an identity by provisioning:
	If a phone identity has been configured as Executive, displays the Executive configuration menu
	 If a phone identity has been configured as Executive Assistant, displays the Executive Assistant configuration menu
Favorites	Opens the list of contacts marked as Favorites in the Directory
Headset	Switch between headset and speaker.
	Answer or make call on headset.

Help	Displays the phone's IP address and the URI to Snom Wiki. IP address, MAC address, and firmware version can be found in the phone menu: Settings > Information > System Information.
Hide Outgoing ID	Use XSI to toggle calling line id blocking for Broadsoft
	Toggle the privacy out setting for non-Broadsoft
Hold	Place the active call on hold
Hoteling	Show PIN input screen (unlock guest), Guest Login screen or Guest Logout screen.
Info	Show Status Info screen.
Instant Redial	Show Enter Number screen if dialed call history is empty. Otherwise, dial the first entry in dialed call history.
LDAP Directory	Allows the user to look up a remote directory while dialing. Once set, this pressed key will open up the Direcory 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 All	Caution: This option will delete all account settings!!
	Usage: Mainly useful for call centers with frequently changing users.
Missed Calls	Missed call history list
Monitor Calls	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.
	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.
Multicast Zones	Show Multicast Zones screen.
Mute	Mutes/unmutes the microphone (handset, speakerphone, headset) during active call
Next Identity	Scroll to the next identity in idle screen, and sets it as the active line and outgoing identity.
Next Page	Show the next page of SmartLabel keys.
None	Sets the key to be inactive.
OCI-P Directory	Shows the OCI-P directory. Used for Broadsoft feature OCI-P.
Pool	Show a list of contact pools available in the Pool screen
Presence	Provides access to a list where the Presence state of each registered SIP Identity can be defined (online, offline, busy, invisible).
Previous Identity	Scroll to the previous identity in idle screen, and sets it as the active line and outgoing identity.
Previous Page	Show the previous page of SmartLabel keys.
Private Hold	Used for Broadsoft feature Private Hold
Reboot	Triggers a phone reboot

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)
Server Directory	Show contacts on the server
Settings	Show the Settings screen.
Silent Mode	Toggle ringer silent
Unknown	This is a placeholder that is used when you first select "Type" as Key Event in the Web interface > Function Keys . Sets the key to be inactive until you assign a key event to the key.
Voicemail	Dial identity's mailbox or show text message.
Voicemail Info	Show the Voice Mail screen

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