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Business IP Range Administration and Provisioning Manual

Temporis IP100/IP150/IP300/IP700G
Alcatel IP2015
Conference IP1850



FW versions 1.0.6B or newer

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Congratulations on your purchase of this Alcatel product. Before using it, please read Important Safety Information on page 174 of this manual. Please thoroughly read this manual for all the feature operations and troubleshooting information necessary to install and operate your new product. You can also visit our website at alcatel-business.com.

This manual provides instructions for using Temporis IP100/IP150/IP300/IP700G, Alcatel IP2015, Conference IP1850 models with software version 1.0.6B or newer. Instructions are also applicable for the administration of IP315, IP370, IP715G and IP770G bundles with cordless accessories. See page 49 for instructions on checking the software version on the desktop phones, or page 61 to do the same on the cordless handsets.

Parts checklist

Your telephone package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.

	Temporis IP100 IP150 IP300	Temporis IP700G	Alcatel IP2015	Conference IP1850
Quick User Guide	✓	✓	✓	✓
Handset and handset cord	✓	✓		
Phone base/main unit	✓	✓	✓	✓
Foot stand	✓	✓		
Wall mount accessory	✓	✓	✓	
Ethernet cable	✓	✓	✓	✓
PSU or power injector			✓	✓
Cordless handset			✓	
Cordless microphones				✓
Batteries or battery pack			✓	✓
Charging cradle with PSU			✓	

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Introduction

This administration and provisioning guide contains detailed instructions for installing and configuring your **Temporis IP100, Temporis IP150, Temporis IP300** and its bundles with cordless accessories, **IP700G** and its bundles with cordless accessories, **Alcatel IP2015 and Conference IP1850**. Please read this guide before installing the telephone.

Audience

This guide is written for installers and system administrators. It assumes that you are familiar with networks and VoIP, both in theory and in practice. This guide also assumes that you have ordered your IP PBX service and selected which PBX features you want to implement. This guide does not reference specific IP PBX services except for features or parameters that have been designed for a specific service. Please consult your service provider for recommended switches, routers, and firewall and NAT traversal settings, and so on.

As the product range becomes certified for IP PBX services, we may make available interoperability guides for those specific services. These will recommend second-party devices and settings, along with deskset-specific configurations for optimal performance with those services. Contact your distributor or installer for the latest updates.

Related documents

Quick Start Guide contains a quick reference guide to the device external features and brief instructions on connecting it to a working IP PBX system. This document exists in different language versions.

Connection sheet contains connection instructions in multiple languages on a single document.

Documents are available from our website at alcatel-business.com.

Getting started

Alcatel business IP range includes full-featured business phones designed to work with popular SIP telephone (IP PBX) services. Once you have ordered and configured your SIP service, the device enables you to make and receive calls as you would with any other business phone. The phones provide calling features like hold, transfer, conferencing, speakerphone, intercom, quick dial numbers and one-touch voicemail access.

Depending on the models, there are one or two network ports, known as LAN port and PC port, at the back of the deskset. The LAN port allows the phones to connect to the IP PBX via a router. The PC port is for another device such as a personal computer to connect to the Ethernet network through the deskset.

You can configure the terminal using its own menus, a browser-based interface called the WebUI, or an automatic provisioning process (see Provisioning Using Configuration Files on page 139).

The WebUI enables you to configure the device using a PC that is connected to the same Local Area Network. The WebUI resides on the phone, and is updated with any firmware updates.

Desktop phones have dual-function programmable keys to which quick-dial numbers, lines, or other functions like monitoring other extensions in the system can be assigned. Programmable keys have two-color LEDs to indicate call activity.

These telephones support caller ID with call waiting service and can store up to 200 Call Log entries. Local and network phonebooks like LDAP are supported.

DECT enabled models (IP300, IP700G, IP2015, IP1850) additionally offer mobility.

We will briefly tour you around the different models.

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Temporis IP100

Temporis IP100 is an entry level business phone. Its features include:

On hook dialing, headset, hold and mute

1 sip registration

2 active SIP sessions

3-way conferencing, N-way network conferencing

10 dual-function Programmable keys, 5 with bicolor led and 2 pages

10 speed dial numbers (long press dial keypad)

Message Waiting alert LED

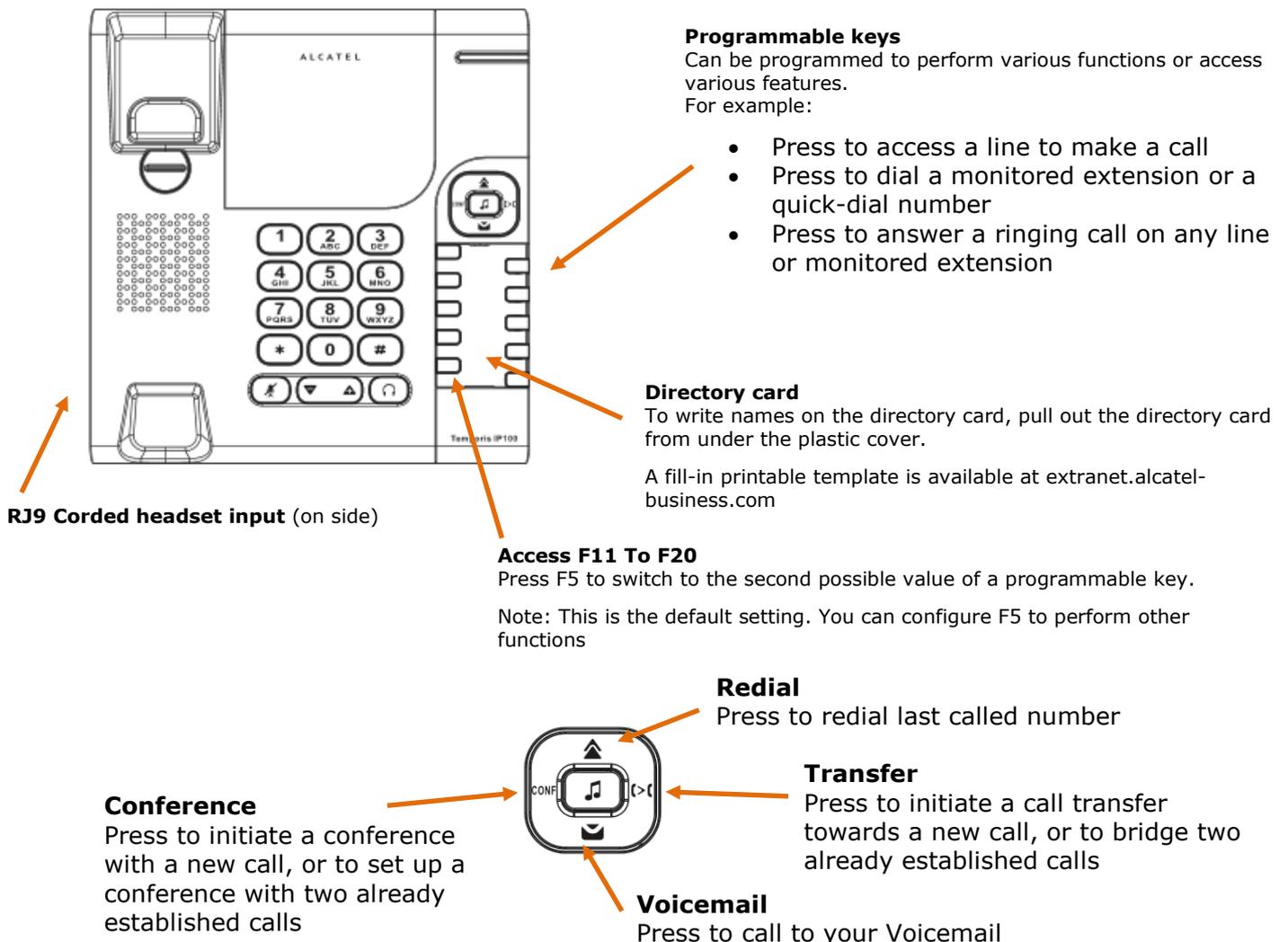
Single 10/100 Mbps Ethernet ports

Power over Ethernet

100-entry Call Log and local phonebook accessible from WUI

Quick reference guide

The controls you will need to use to manage the phone and external features that are relevant to installation and configuration are described below.



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The following table includes some useful star codes to help you quickly configure IP100. To invoke a command simply dial the sequence in on-hook mode.

Purpose	Command	Remarks
IP address announcement	*123456#	
Static IP configuration	*782842#x*x*x*x#y*y*y*y#z*z*z*z#	x*x*x*x = IP address y*y*y*y = subnet mask z*z*z*z = default gateway
Switch VLAN off	* 7 8 2 8 4 3 # 0 # #	
Switch VLAN ON plus edit VID	* 7 8 2 8 4 3 # 1 # ???? #	???? = VLAN ID

Programmable Keys

The table below lists the default settings for the programmable keys. The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, or access to other functions like Call forward, for example.

Keys are numbered from top left to bottom left, and then top right to bottom right. Note keys 11 to 20 are virtual, ie they are accessed when key 5 is configured as Access to F11-F20

Key Number	Setting
1	Line 1*
2	Line 1
3	Quick dial
4	Quick dial
5	Access to F11-F20
6-14	Quick dial
15	Access to F11-F20
16-20	Quick dial

* You can assign more than one key to a certain type of function. For example, you can configure keys 1 and 2 to access Line 1. Label the keys appropriately for deskset users after configuration. A printable fill-in template is available for download at extranet.alcatel-business.com

To assign functions to programmable keys, please see Programmable Keys on page 92.

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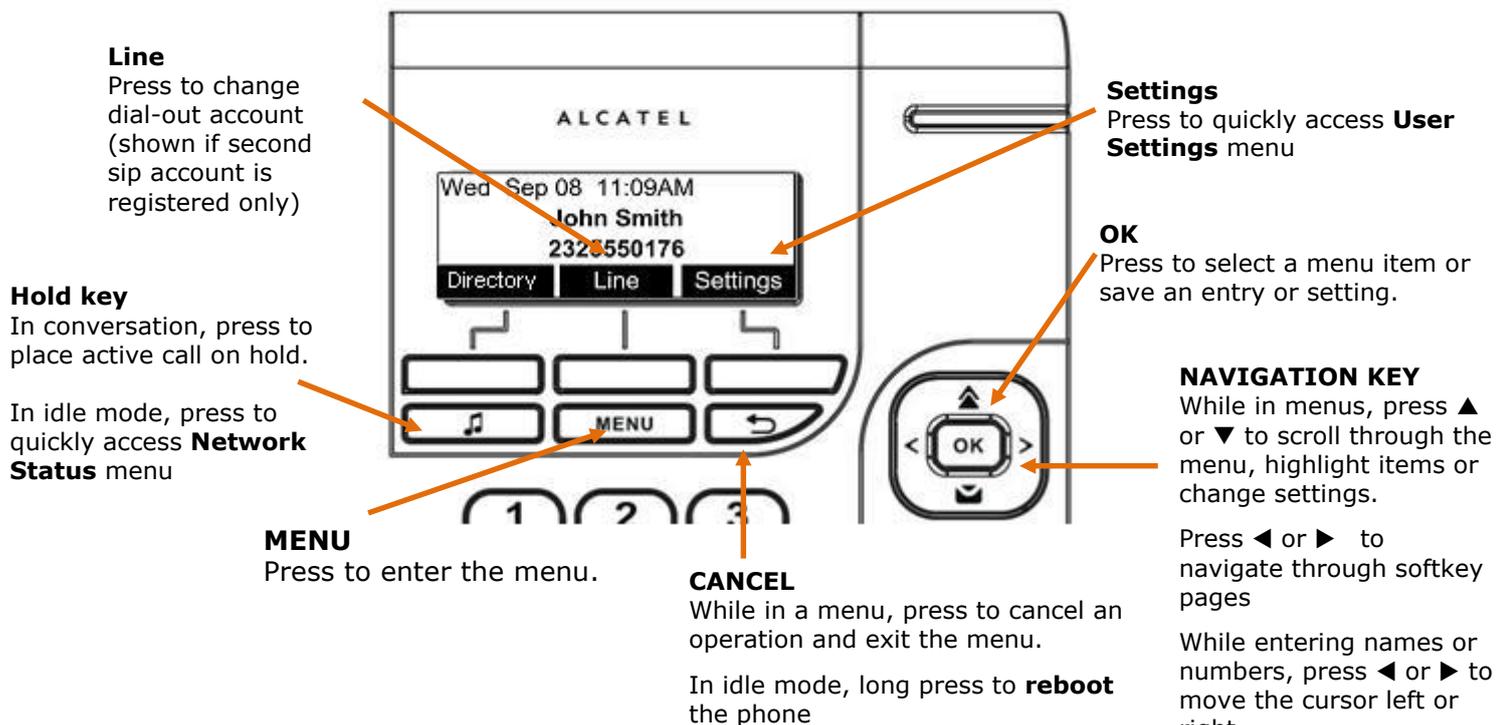
Temporis IP150

Temporis IP150 is an entry level business phone. Its features include:

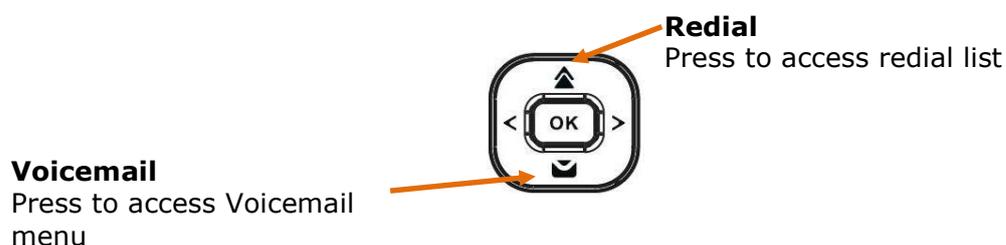
- 2.5-inch backlit Liquid Crystal Display
- Speakerphone, Headset, Hold and Mute
- Up to 2 SIP Registrations
- Up to 6 active SIP sessions
- 3-way conferencing, N-way network conferencing
- 10 dual-function programmable keys, 5 with bicolor led
- Customizable softkeys and logo
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- Dual 10/100 Mbps Ethernet ports with Power over Ethernet
- 100-entry Call Log, local and LDAP phonebooks

Quick reference guide

The controls you will need to use to configure the phone manually are described below.



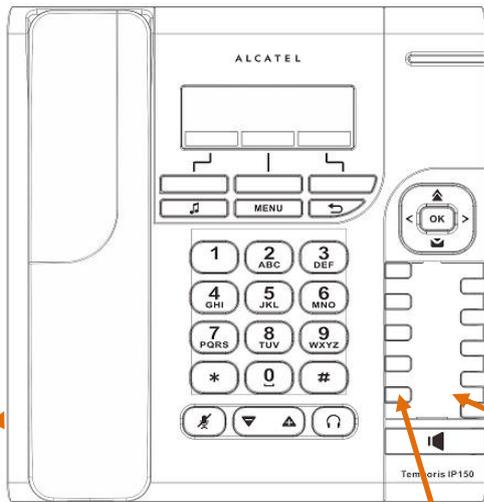
Navigation key also provides shortcuts to the following functions in idle mode:



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The deskset external features that are relevant to installation and configuration are described below.



RJ9 Corded headset input (on side)

Programmable keys

Can be programmed to perform various functions or access various features.
For example:

- Press to access a line to make a call
- Press to dial a monitored extension or a quick-dial number
- Press to answer a ringing call on any line or monitored extension

Directory card

To write names on the directory card, pull out the directory card from under the plastic cover.

A fill-in printable template is available at extranet.alcatel-business.com

Access F11 To F20

Press F5 to switch to the second possible value of a programmable key.

Note: This is the default setting. You can configure F5 to perform other functions

Programmable Keys

The table below lists the default settings for the programmable keys. The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, or access to other functions like Call forward, for example.

Keys are numbered from top left to bottom left, and then top right to bottom right. Note keys 11 to 20 are virtual, ie they are accessed when key 5 is configured as Access to F11-F20

Key Number	Setting
1	Line 1*
2	Line 1
3	Quick dial
4	Quick dial
5	Access to F11-F20
6-14	Quick dial
15	Access to F11-F20
16-20	Quick dial

* You can assign more than one key to a certain type of function. For example, you can configure keys 1 and 2 to access Line 1, and keys 3 and 4 to access Line 2. Label the keys appropriately for deskset users after configuration. A printable fill-in template is available for download at extranet.alcatel-business.com

To assign functions to programmable keys, please see Programmable Keys on page 92

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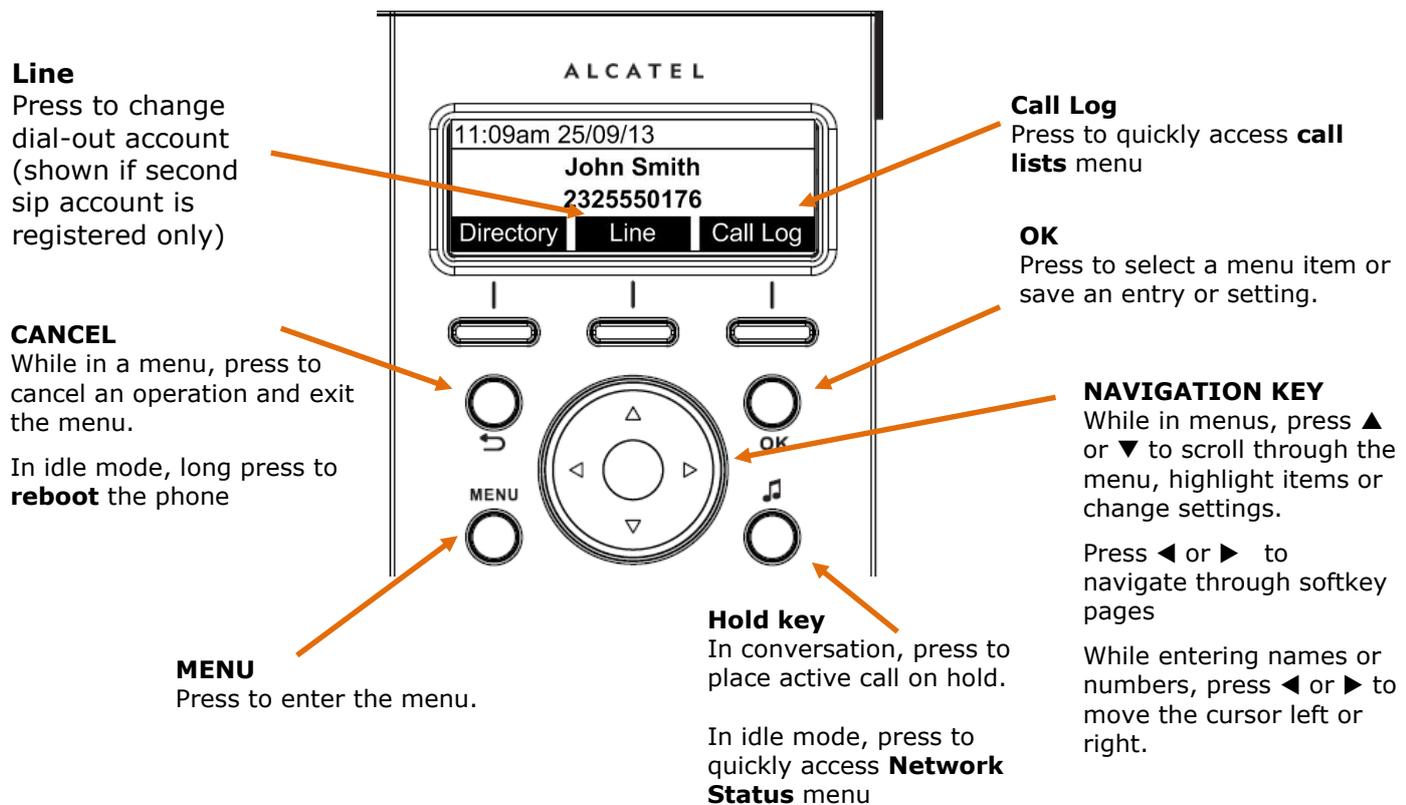
Temporis IP300

Temporis IP300 is a mid-range business phone with cordless capabilities. Its features include:

- 2.5-inch backlit Liquid Crystal Display
- Speakerphone, Headset, Hold and Mute
- Up to 3 SIP Registrations
- Up to 6 active SIP sessions
- 3-way conferencing, N-way network conferencing
- IP70H DECT headset and IP15 DECT handset support
- 12 dual-function programmable keys with bicolor led
- Customizable softkeys and logo
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- Dual 10/100 Mbps Ethernet ports
- Power over Ethernet enabled
- 200-entry Call Log, local and LDAP phonebooks

Quick reference guide

The controls you will need to use to configure the phone manually are described below.



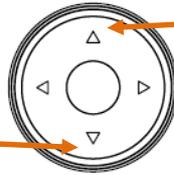
Navigation key also provides shortcuts to the following functions in idle mode:

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Voicemail

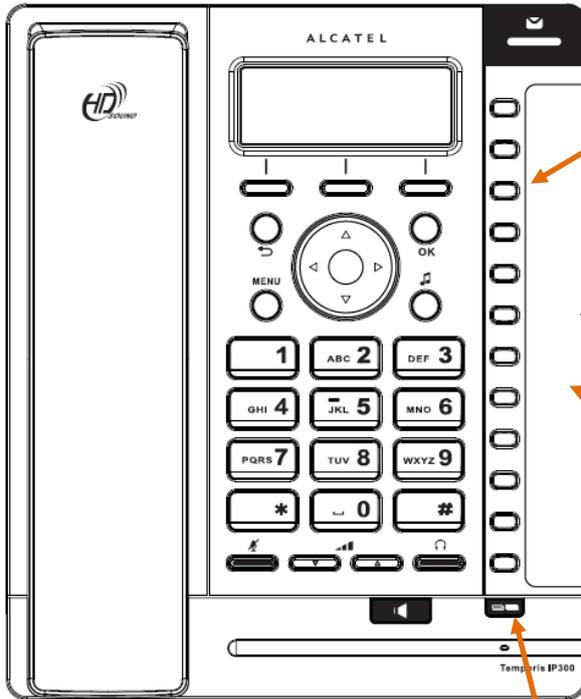
Press to access Voicemail menu



Redial

Press to access redial list

The deskset external features that are relevant to installation and configuration are described below.



Programmable keys

Can be programmed to perform various functions or access various features.

For example:

Press to access a line to make a call

Press to dial a monitored extension or a quick-dial number

Press to answer a ringing call on any line or monitored extension

See also Programmable Keys on page 13.

Directory card

To write names on the directory card, pull out the directory card from under the plastic cover.

A fill-in printable template is available at extranet.alcatel-business.com

2.5mm corded headset input (on side)

Access F13 to F24

Press this key to switch to the second possible value of a programmable key.

Programmable Keys

The table below lists the default settings for the programmable keys. The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, or access to other functions like Call forward, for example.

Key Number	Setting
1	Line 1*
2	Line 1
3-12	Quick dial

* You can assign more than one key to a certain type of function. For example, you can configure keys 1 and 2 to access Line 1, and keys 3 and 4 to access Line 2. Label the keys appropriately for deskset users after configuration.

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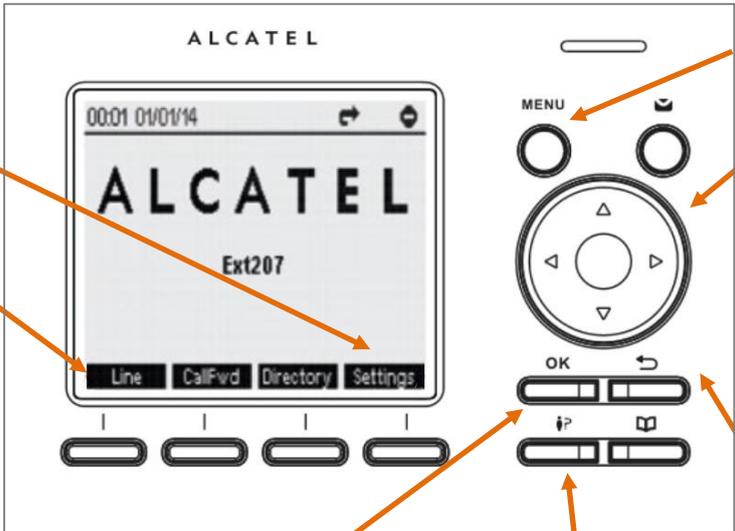
Temporis IP700G

Temporis IP700G is a feature business phone with cordless capabilities. Its features include:

- 3.5-inch backlit Liquid Crystal Display
- Speakerphone, Headset, Hold and Mute
- Up to 6 SIP Registrations
- Up to 6 active SIP sessions
- 3-way conferencing, N-way network conferencing
- IP70H DECT headset and IP15 DECT handset support
- 16 dual-function programmable keys with bicolor led
- Customizable softkeys and logo
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- Dual 10/100/1000 Mbps Ethernet ports
- Power over Ethernet enabled
- 200-entry Call Log, local and LDAP phonebooks

Quick reference guide

The controls you will need to use to configure the phone manually are described below.



Settings
Press to access Settings menu

Line
Press to change dial-out account (shown if more than one sip account is registered only)

MENU
Press to enter the menu.

NAVIGATION KEY
While in menus, press ▲ or ▼ to scroll through the menu, highlight items or change settings.
Press ◀ or ▶ to navigate through softkey pages

OK
Press to select a menu item or save an entry or setting.

Call Log
Press to quickly access **call lists** menu

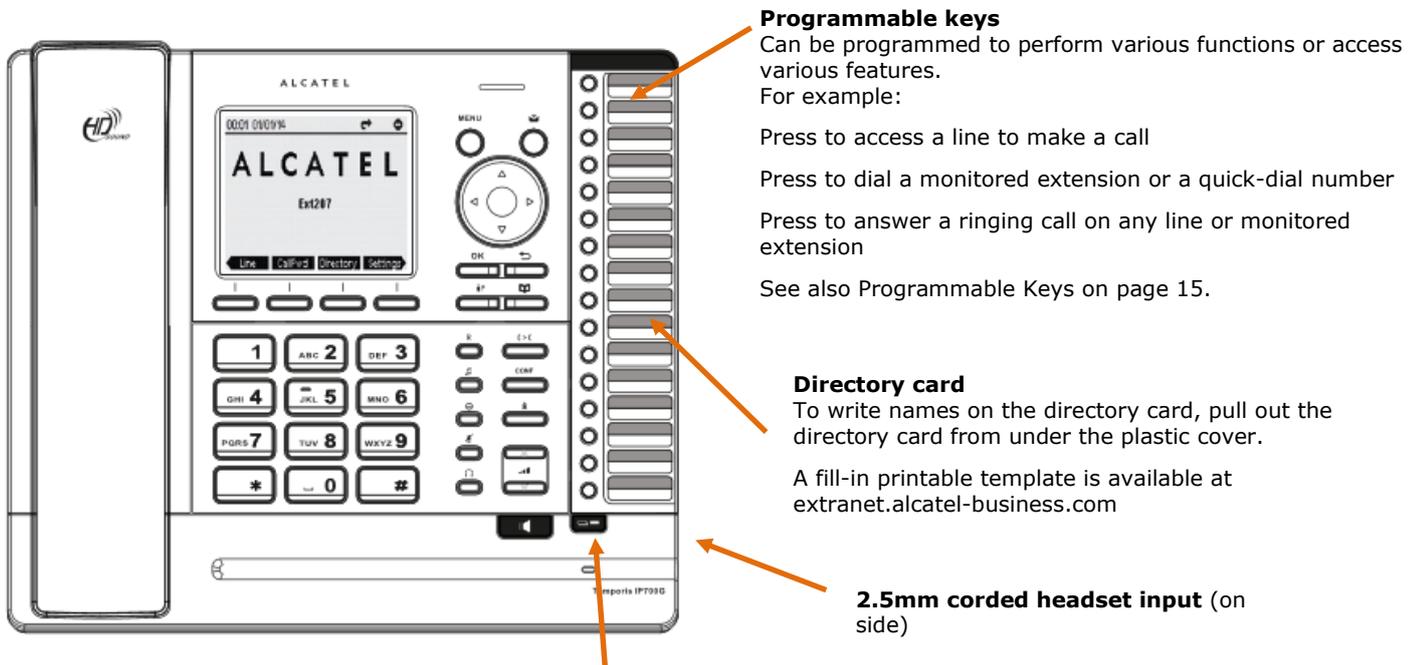
CANCEL
While in a menu, press to cancel an operation and exit the menu.
In idle mode, long press to **reboot** the phone

Hold key
In conversation, press to place active call on hold.
In idle mode, press to quickly access **Network Status** menu

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The deskset external features that are relevant to installation and configuration are described below.



Access F13 to F24

Press this key to switch to the second possible value of a programmable key.

Programmable Keys

The table below lists the default settings for the programmable keys. The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, or access to other functions like Call forward, for example.

Key Number	Setting
1	Line 1*
2	Line 1
3-16	Quick dial

* You can assign more than one key to a certain type of function. For example, you can configure keys 1 and 2 to access Line 1, and keys 3 and 4 to access Line 2. Label the keys appropriately for deskset users after configuration.

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Alcatel IP2015

Alcatel IP2015 is a multiline multi-handset IP DECT system. Basic package includes one base and one handset. IP2015 features include:

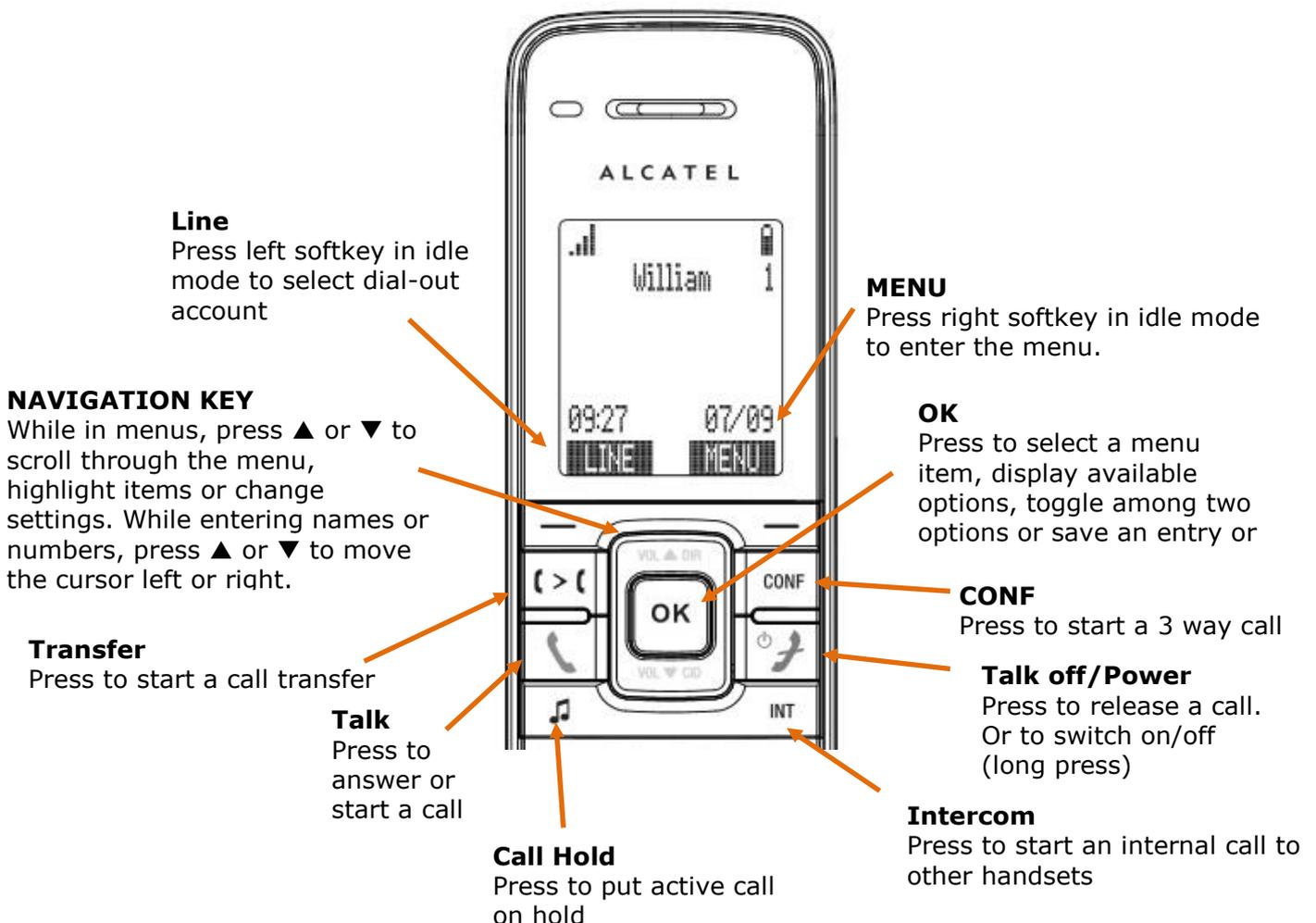
- Out-of-sight, wall mountable, PoE enabled base station
- Up to 6 independent SIP Registrations
- Up to 6 IP15 handsets supported per base
- Up to 4 concurrent wideband calls per base
- 3-way conferencing, N-way network conferencing
- Shared and LDAP phonebooks
- 10/100 Mbps Ethernet port

As for the IP15 handset:

- 1.9-inch backlit Liquid Crystal Display
- Wideband audio, hands free
- Headset jack and belt clip
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- Access to local, shared and LDAP phonebooks
- Easy access to business functions

Quick reference guide

The controls you will need to use to configure the phone manually are described below.



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Although there are often dedicated menu items, navigation key also provides shortcuts to the following functions:

CID/VOL -

In idle mode press to quickly access Call Logs menu

When in a call press to decrease received audio volume

At incoming call press to decrease ringer level



DIR/VOL +

In idle mode press to quickly access Contacts menu

When in a call press to increase received audio volume

At incoming call press to increase ringer level

The elements of the base unit you need to consider are the following:

Paging/Registration button

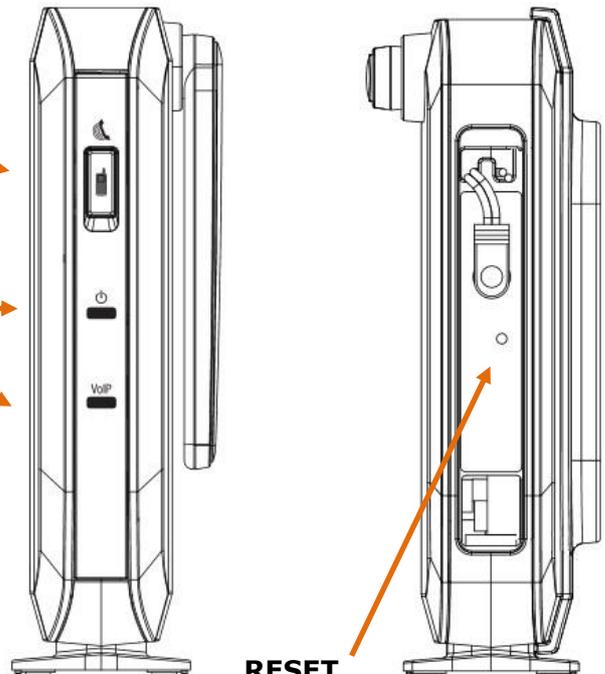
Press to locate all registered handsets.

Long press to set the base unit into DECT registration mode

Power and VoIP LEDs

Status indication is as follows:

Status	Power	VoIP
Connected to router and IP address assigned	ON	
IP address not available	Flash	
All accounts registered		ON
At least one active account unregistered		OFF
DECT registration mode	Flash	Flash



RESET

Press with a paper clip or sharp object to restore the unit to its default settings.

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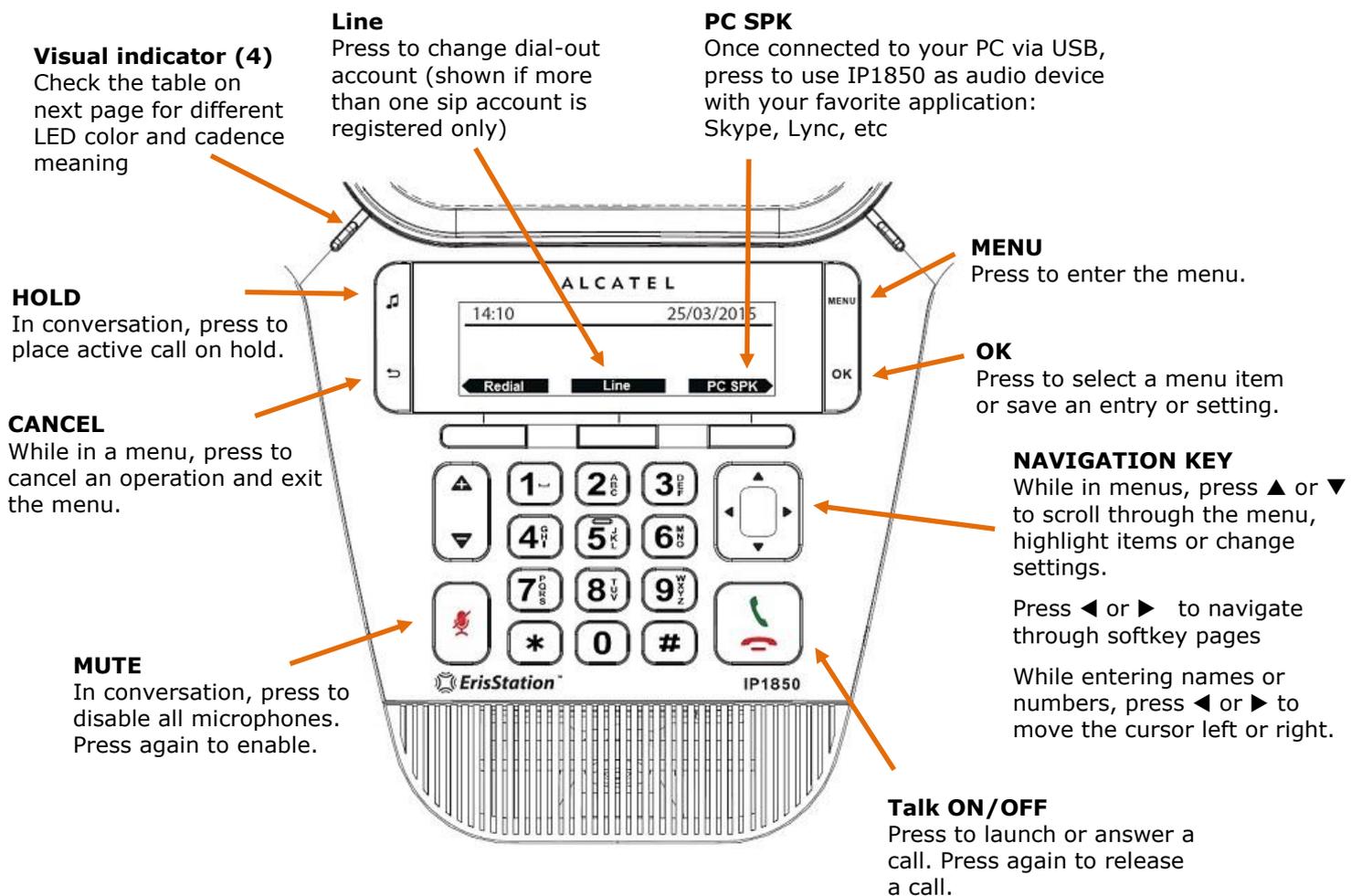
Conference IP1850

Conference IP1850 is an advanced audioconference device. Its features include:

- Wideband, high power speaker
- 2 embedded microphones
- 4 detachable wireless microphones with built-in charging cradle
- 2.5-inch backlit Liquid Crystal Display
- Up to 3 SIP Registrations
- Up to 6 active SIP sessions
- 3-way conferencing, N-way network conferencing, hold, mute, transfer
- USB connector for PC audio device mode
- Customizable softkeys and logo
- 10 speed dial numbers (long press dial keypad)
- Message Waiting alert LED
- 10/100 Mbps Ethernet ports
- Power injector
- 200-entry Call Log, local and LDAP phonebooks

Quick reference guide

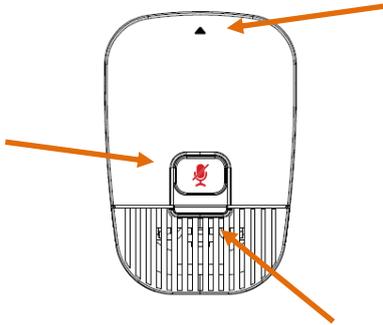
The controls you will need to use to configure the phone manually are described below.



On the wireless microphones you have the following elements:

MUTE

In conversation, press to temporarily deactivate (mute) all microphones. Press again to enable (unmute).



Remove and activate mic

Push gently on the arrow area to remove the microphone from its cradle.

Please note wireless mics are deactivated while on their cradle. For best user experience, if users are located at or farther than 1m from the main unit, it is recommended to activate and use these mics by detaching them from their cradle.

Visual indicator

Check the table below for color/ cadence meaning

Visual indicators description

LED status	Main Unit	Wireless mics
Steady orange		Charging in progress
Flashing orange	Network failure	Low battery
Steady green	Speakerphone in use	Mic in use or PC mode
Quick flashing green	Incoming call	Incoming call
Slow flashing green	A call is held	
Steady red	Mute activated	All mics muted
Slow flashing red		Mic in paging mode, out of range or not registered
Quick flashing green & red		Registration mode

Network Requirements

A switched network topology is recommended for your LAN (using standard 10/100 or 10/100/1000 Ethernet switches).

The office LAN infrastructure should use Cat.-5 (or better) cable for 10/100, and Cat.-6 for 10/100/1000.

The LAN connections to the device(s) should all be wired. However, wireless connections to other devices (such as laptops) in your office will not impede performance.

All devices must reside on a single subnet. A DHCP server is recommended and must be on the same subnet as the devices so that IP addresses can be auto-assigned. In most cases, your network router will have a Dynamic Host Configuration Protocol (DHCP) server that will automatically assign IP addresses to clients. By default, the phone has DHCP enabled for automatic IP address assignment.

If no DHCP server is present, you can assign static IPs to devices. If you do not have a DHCP server or do not manually assign static IPs, you will not be able to access the WebUI and/or enable automatic time updates from an NTP server.

Unless you want to manually set the system clock and manually or locally upgrade software, an Internet connection to the LAN is required.

A DNS server is recommended to resolve the path to the Internet and to a server for firmware and configuration updates.

If necessary, the system administrator can also download upgrade files and use the WebUI to update the device firmware and/or configuration settings manually.

For users whose computers require a GigE Ethernet frame rate (a gigabit per second), use either IP700G phone or separate Ethernet connections for the deskset and the computer.

Installation

This section assumes that your network infrastructure is established and that your hosted IP PBX service has been ordered and configured for your location.

Install the phone close to a router or network switch. You can power the phone using Power over Ethernet or the power adapter/injector (not supplied for all models, see part check list). If you are not using PoE, install the phone near a power outlet not controlled by a wall switch. The phone can be placed on a flat surface or vertically mounted on the wall.

For customer service or product information, visit our website at extranet.alcatel-business.com.

Avoid placing the deskset too close to:

Communication devices such as television sets, DVD players, or other cordless telephones.

Excessive heat sources.

Noise sources such as a window with traffic outside, motors, microwave ovens, refrigerators, or fluorescent lighting.

Excessive dust sources such as a workshop or garage.

Excessive moisture.

Extremely low temperature.

Mechanical vibration or shock such as on top of a washing machine or work bench.

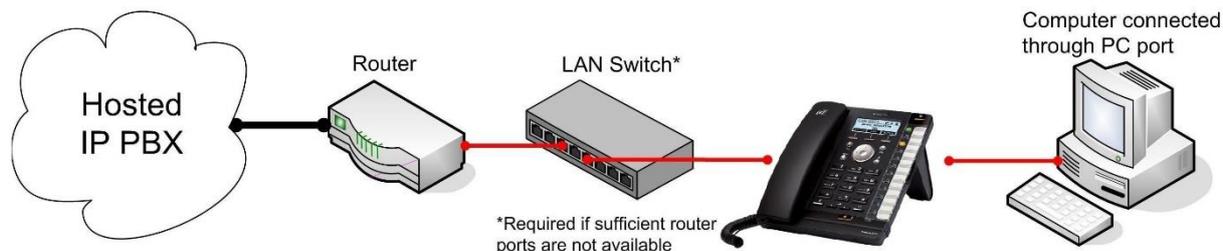
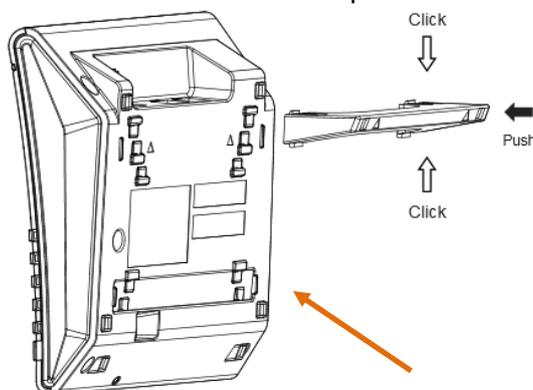


Figure 1: Temporis IP300 Installation Example

Temporis IP100 and IP150 installation

To install the phone:

1. If you plan to place the phone on a flat surface, you can use one of the two available positions depending on the work angle you wish to have, ie with or without the detachable foot stand. To assemble the stand line up the tabs on the stand (marked with triangles) with the slots on the rear of the phone as shown in the picture

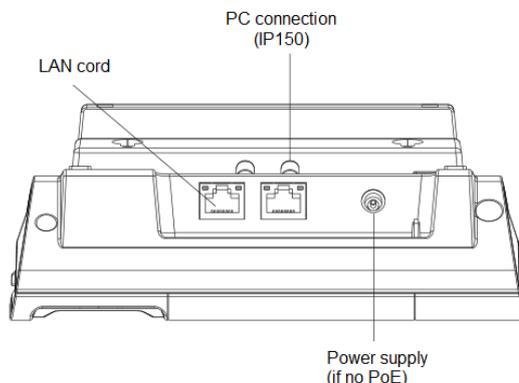


Plug the end of the coiled handset cord into the Handset jack at the left side of the phone.

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2. Plug one end of the Ethernet cable into the Ethernet port at the back of the console, and plug the other end of the cable into your network router or switch.



NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

3. If the deskset is not using power from a PoE-capable network router or switch:
 - a. Connect the power adapter to the deskset power jack.
 - b. Plug the power adapter into an electrical outlet not controlled by a wall switch.

IMPORTANT INFORMATION

1. Use only original power adapters. Contact your distributor to order.
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

If there is a networked computer and no extra Ethernet wall ports near the phone, then the phone and PC can share the same network connection.

To share a network connection with a PC (IP150 only):

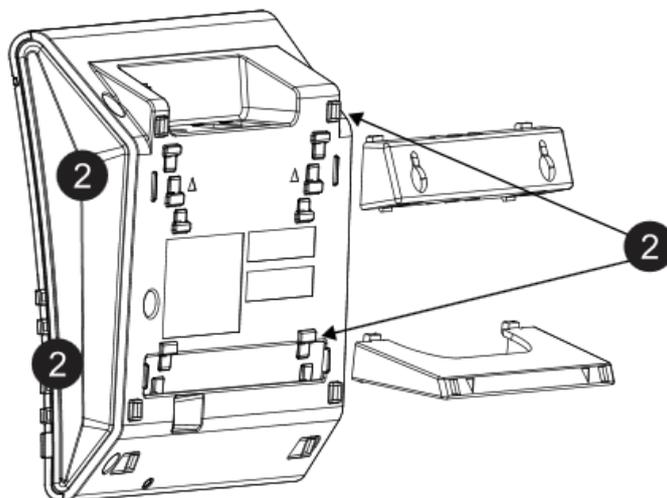
1. Plug a Cat.-5 Ethernet cable into the PC port on the phone.
2. Plug the other end of the Cat.-5 Ethernet cable into your computer's network port.

If a GigE network is being used, a computer connected through the phone will be limited to 100 Mbits/s. If you require a GigE Ethernet rate, use separate Ethernet connections for the phone and the computer.

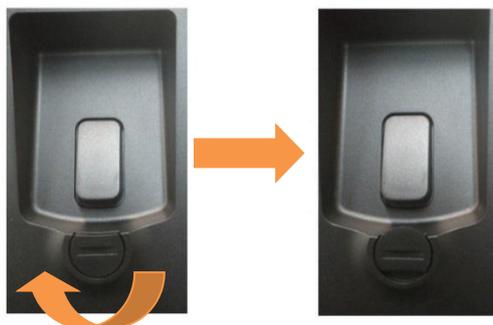
If a PC is connected to your network through a phone, any phone resets and power or network interruptions will disrupt the PC's connection to the network.

To mount the phone on the wall:

1. Disassemble the foot stand
2. Install wall mount fittings and foot stand as displayed:



3. Put the corded handset aside. Use a coin to rotate the handset tab 180 degrees. The protruding edge holds the corded handset when the phone is mounted on the wall.

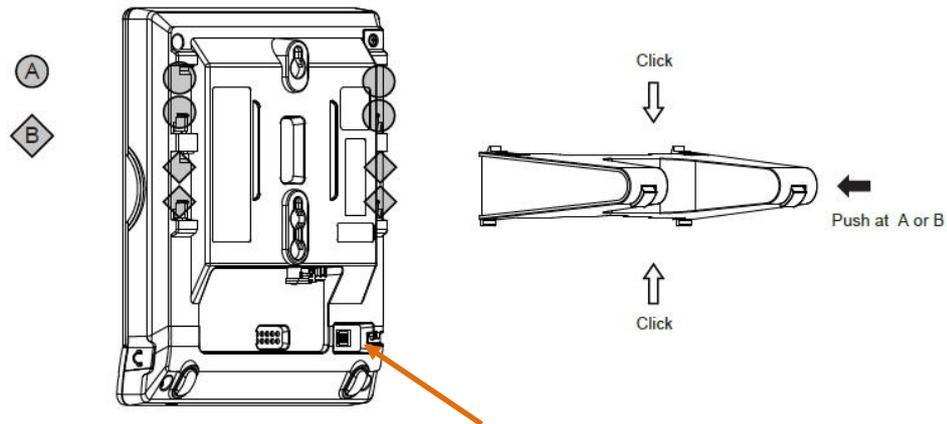


4. Connect the network cable(s) and power adapter (if required).
5. Hang the phone using holes on the wall mount fitting part.

Temporis IP300 installation

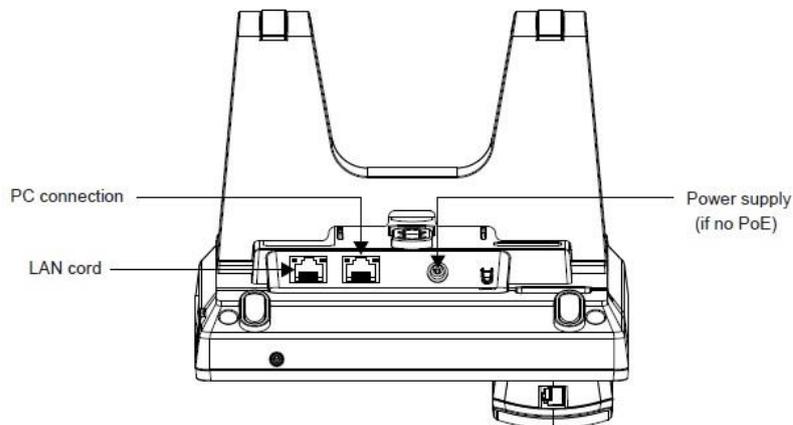
To install the phone:

1. If you plan to place the phone on a flat surface, you can use one of the two available positions depending on the work angle you wish to have. To assemble the stand line up the tabs on the stand (marked with lozenges) with the slots on the rear of the phone as shown in the picture



Plug the end of the coiled handset cord into the Handset jack at the back of the phone.

2. Plug one end of the Ethernet cable into the Ethernet port at the back of the console, and plug the other end of the cable into your network router or switch.



NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

3. If the deskset is not using power from a PoE-capable network router or switch:
 - a. Connect the power adapter to the deskset power jack.
 - b. Plug the power adapter into an electrical outlet not controlled by a wall switch.

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IMPORTANT INFORMATION

1. Use only original power adapters. Contact your distributor to order.
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

If there is a networked computer and no extra Ethernet wall ports near the phone, then the phone and PC can share the same network connection.

To share a network connection with a PC:

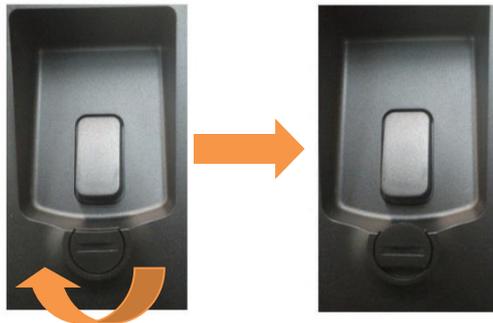
3. Plug a Cat.-5 Ethernet cable into the PC port on the phone.
4. Plug the other end of the Cat.-5 Ethernet cable into your computer's network port.

If a GigE network is being used, a computer connected through the phone will be limited to 100 Mbits/s. If you require a GigE Ethernet rate, use separate Ethernet connections for the phone and the computer.

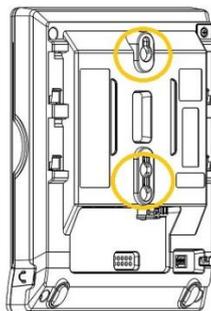
If a PC is connected to your network through a phone, any phone resets and power or network interruptions will disrupt the PC's connection to the network.

To mount the phone on the wall:

1. Put the corded handset aside. Use a coin to rotate the handset tab 180 degrees. The protruding edge holds the corded handset when the phone is mounted on the wall.



2. Connect the network cable(s) and power adapter (if required).
3. Hang the phone on the wall using wall mount holes.



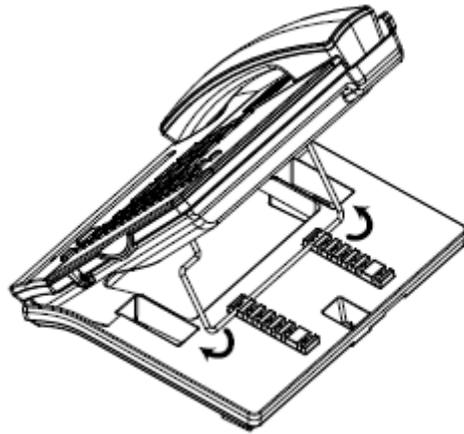
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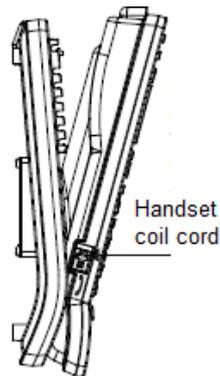
Temporis IP700G installation

To install the phone:

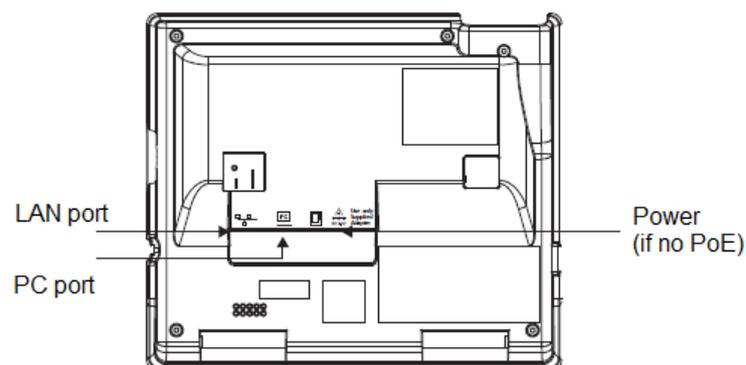
1. If you plan to place the phone on a flat surface, you can use one of the multiple available positions depending on the work angle you wish to have. Simply adjust the foot stand with the slots on the rear of the phone as shown in the picture



2. Plug the end of the coiled handset cord into the Handset jack at the left hand side of the phone.



3. Plug one end of the Ethernet cable into the Ethernet port at the back of the console, and plug the other end of the cable into your network router or switch.



NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

4. If the desk set is not using power from a PoE-capable network router or switch:

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- a. Connect the power adapter to the deskset power jack.
- b. Plug the power adapter into an electrical outlet not controlled by a wall switch.

IMPORTANT INFORMATION

1. Use only original power adapters. Contact your distributor to order.
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

If there is a networked computer and no extra Ethernet wall ports near the phone, then the phone and PC can share the same network connection.

To share a network connection with a PC:

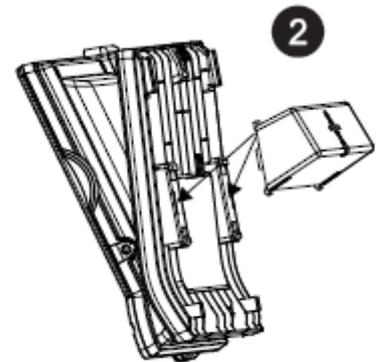
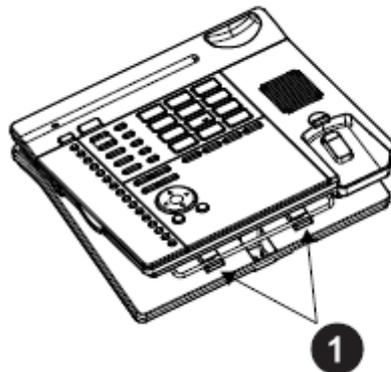
1. Plug an Ethernet cable into the PC port on the phone.
2. Plug the other end of the Ethernet cable into your computer's network port.

If a GigE network is being used, make sure Cat.-6 cables are used.

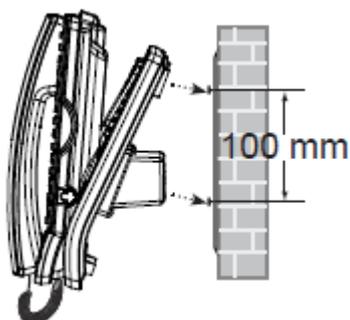
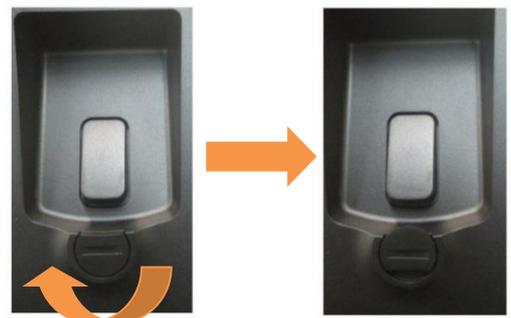
If a PC is connected to your network through a phone, any phone resets and power or network interruptions will disrupt the PC's connection to the network.

To mount the phone on the wall:

1. Fold the foot stand as depicted
2. Assemble the wall mount accessory
3. Put the corded handset aside. Use a coin to rotate the handset tab 180 degrees. The protruding edge holds the corded handset when the phone is mounted on the wall.



4. Connect the network cable(s) and power adapter (if required).
5. Hang the phone on the wall using wall mount holes.



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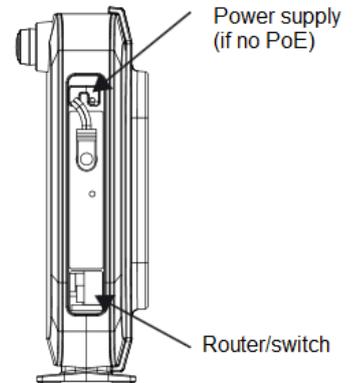
Alcatel IP2015 installation

To install the base:

1. Plug one end of the Ethernet cable into the Ethernet port at the side of the base, and plug the other end of the cable into your network router or switch.

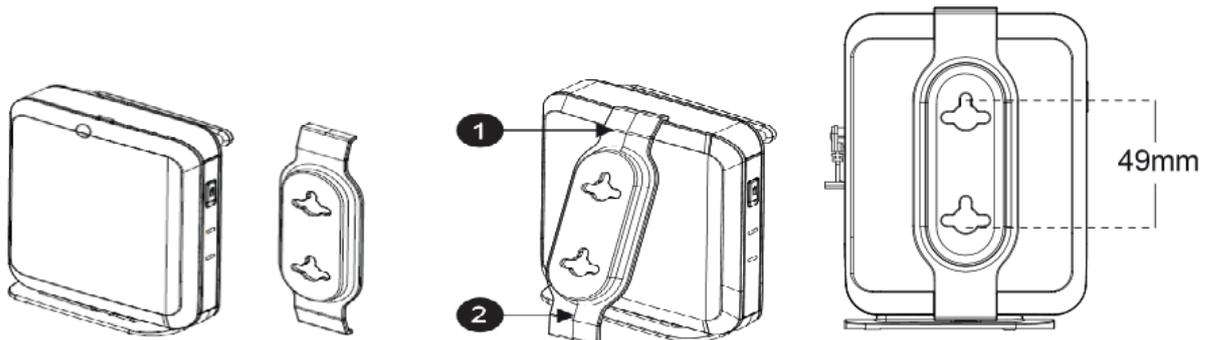
NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

2. If the base is not using power from a PoE-capable network router or switch:
 - a. Connect the power adapter to the base power jack.
 - b. Plug the power adapter into an electrical outlet not controlled by a wall switch.



To mount the base station on the wall :

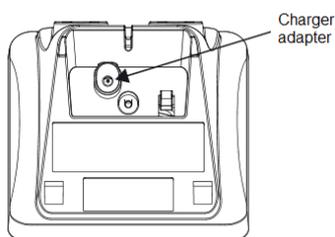
1. Assemble the wall mount bracket as depicted.



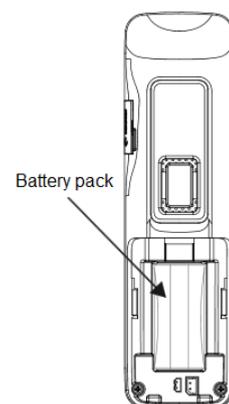
2. Connect the network cable and power adapter (if required).
3. Hang the phone on the wall using wall mount holes.

To install the handset:

1. Connect handset charging cradle to provided adapter. Plug the adaptor to the mains.



2. Insert and connect supplied battery pack into handset battery compartment.
3. Place the handset on the charger and fully charge the battery for 15 hours



IMPORTANT INFORMATION

1. Use only supplied power adapters and battery pack.
2. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

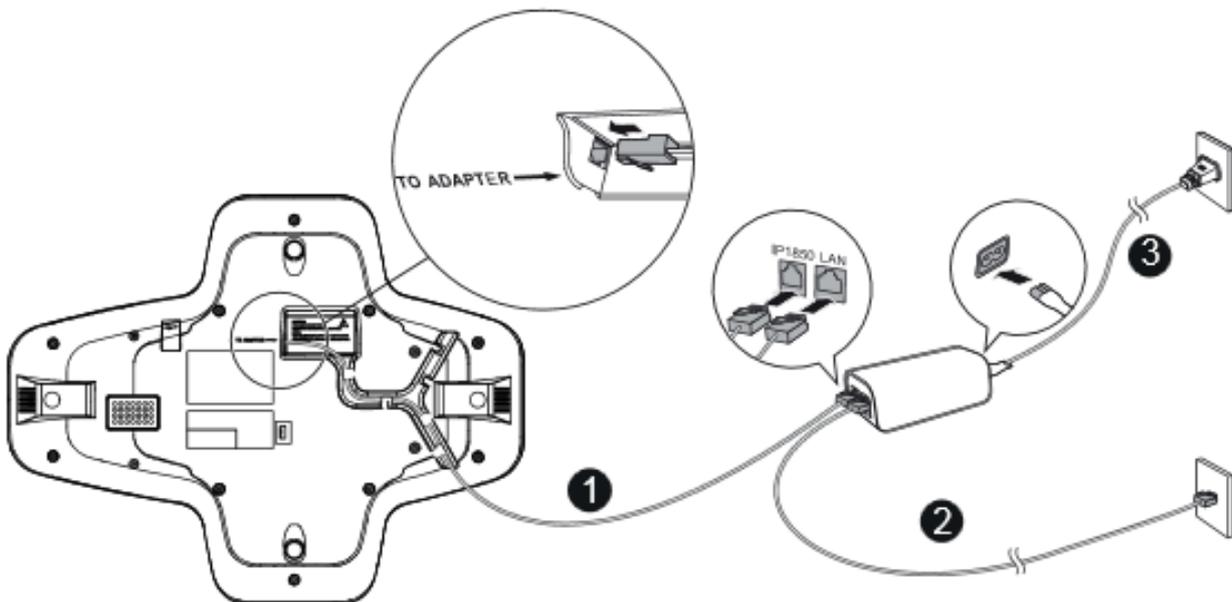
Your handset is already subscribed to the base. So if you are installing a system with only one handset you don't need to perform any association procedure.

If you acquire additional handsets you will need to follow some simple steps. See Setting up IP2015 with multiple IP15 handsets on page 46.

Conference IP1850 installation

To install the main unit:

1. Plug one end of the Cat-5 cable with yellow connectors to the LAN port of your IP1850. Connect the other end to the "IP1850" port on the supplied power adapter/injector.



2. Plug the second Ethernet cable into the "LAN" port on the power injector, and plug the other end into your network router or switch.

NOTE: You may need to use a network switch connected to your router if your router does not have sufficient ports for the number of phones you want to install. If you use a network switch, connect the phone to the switch instead of the router in the previous step.

3. Connect the power cable onto the power injector, and plug the other end into an electrical outlet not controlled by a wall switch.

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To install the wireless microphones:

1. For each microphone, activate the battery by pulling away the plastic tag, or insert the battery into its compartment.
2. Place the microphones on the charging cradles



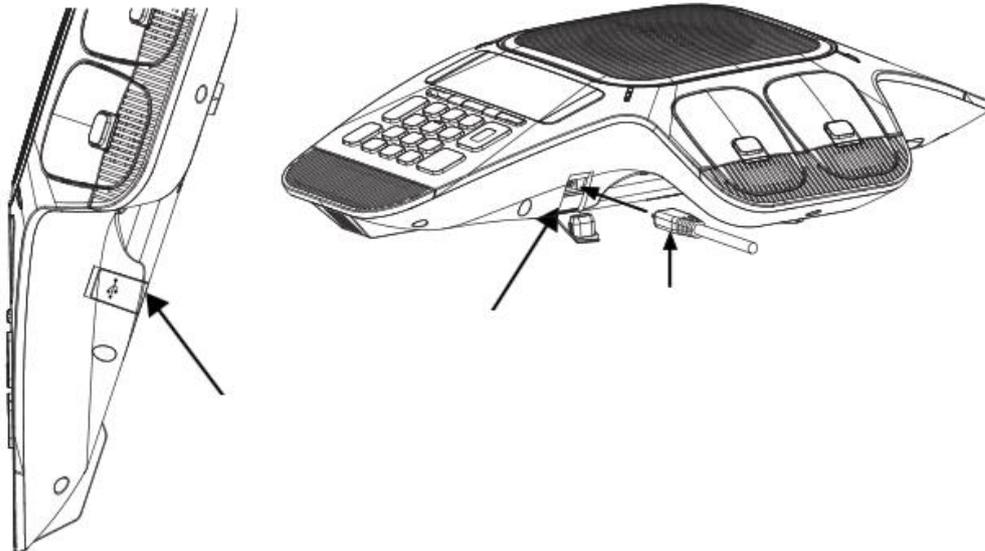
NOTE: If the microphone unit does not turn on when plastic tag is removed, take the battery out, reinsert and charge for 8 hours. Wireless mics are active while detached from main unit only. To get the best of your conference phone, if you are placed at or farther than 1m from the base please remove mic by pushing on the arrow at the top of the mic.

IMPORTANT INFORMATION

1. Use only provided power adapter/injector.
2. Use the batteries supplied in the package only. Use of any other type of battery presents a risk of explosion. Used batteries must be disposed of in compliance with current environmental protection regulations.
3. The power plug is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

To connect IP1850 to your computer:

1. Plug the micro USB end of the USB cable supplied in the package to the main unit USB connector as depicted below.
2. Plug the other end into a USB port on your computer



To associate a new wireless microphone:

Your IP1850 is shipped with all four wireless microphones already associated to the main unit. In the unlikely event you need to replace any of them, you will find herewith instructions to associate a new microphone.

1. On the main unit, go to **Menu > 3.User settings >4.Wireless microphones >1.Register**
2. Place an unregistered microphone on the cradle
3. IP1850 should indicate the success of the operation.

NOTE: Registration has to be done for one mic at a time. Moreover, you will not be able to register a new microphone if there are already 4 mics associated to the unit. To unregister microphones see next paragraph.

To disassociate the wireless microphones from the main unit:

1. On the main unit, go to **Menu > 3.User settings >4.Wireless microphones >2.Deregister**
2. All wireless mics will be unregistered from the base. To re-associate them see the previous paragraph.

To disassociate a wireless microphone without the main unit:

Should you need to delete association information from a wireless microphone without having access to its former main unit, this is the procedure:

1. Remove the battery from the wireless mic to power it off
2. Press and hold MUTE key while power on (reinsert battery)
3. Keep holding MUTE key for 10 seconds
4. Release MUTE key and short press it again within 5 seconds

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Configuring your device

You can configure your device using three methods:

From the phone itself, using the menus. The phone menus are best suited to configuring a few settings, perhaps after the initial setup has been done. For administrators, the settings available on the phone menu include network, account, and provisioning settings. See Using the Admin Settings menu on page 53. Most of the settings accessible on the phone itself are most useful for end users. Through the menu, they can customize the screen appearance, sounds, and manage calls. For more information, see the respective models Quick User Guides. This paragraph does not apply to Temporis IP100. See Setting up Temporis IP100 phone on page 41.

The Web User Interface, or WebUI, which you access using your Internet browser. See Using the WebUI on page 68. The browser-based interface is easy to navigate and best-suited to configuring a large variety of phone settings. The WebUI has every setting required for configuring a single phone. You can enter service provider account settings on the WebUI, configure the programmable keys, and set up provisioning, which will allow you to automatically and remotely update the phone after initial configuration.

Provisioning using configuration files. Working with configuration files is the best way to configuring multiple phones. There are several methods available to enable the phone to find the configuration file. For example, you can enable the phone, when it starts up or reboots, to check for the presence of a configuration file on a provisioning server. If the configuration file is new or has been modified in any way, the phone automatically downloads the file and applies the new settings. For more information, see Provisioning Using Configuration Files on page 139.

Minimum configuration

Assuming you have IP connectivity, the minimum configuration will be one sip account.

To configure a sip account using the phone menu, see chapter Line Menu on page 57. Not applicable to IP100 or IP2015.

To configure one or more sip accounts using the web interface, see SIP Account Management on page 72.

If you prefer to use configuration files, see "sip_account" Module: SIP Account Settings on page 150.

Verifying the installation: idle Screen

The default idle screen appears after the phone is connected and configured for your SIP service. The idle screen indicates that you have no active or held calls. Idle screen aspect varies depending on the product.



Figure 2: Idle screen for (left to right) IP150/IP300, IP700G, IP15 and IP1850

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Note "Line" softkey will be shown only if you have configured and registered more than one sip account.

Configuring Programmable keys

Temporis IP100, IP150, IP300 and IP700G models are equipped with programmable keys with a dual-color backlight (orange and green). Keys are numbered top to bottom, and then left to right when applicable.

In all models listed above there is a mechanism to access a second virtual key on each physical key. For IP300 and IP700G this is done via "Access to second function"  key, whereas in IP100 and IP150 F5/F15 can be assigned for this purpose if desired.

The number of programmable function keys and toggle mechanism for each model is shown in the table below.

Model	Number of PFKs	Number of keys with backlight	Access to second function	Number of virtual keys
Temporis IP100	10	5	F5/F15 (config)	18
Temporis IP150	10	5	F5/F15 (config)	18
Temporis IP300	12	12	"Lower" key	24
Temporis IP700G	16	16	"Lower" key	32

You can assign functions to the programmable keys. You can select one option for each physical or virtual key. Keys can have identical functions. For example, you can assign several "Line" keys for Line 1 to enable users to manage multiple calls on Line 1. You can also assign multiple Quick Dial keys.

Depending on the feature, you may need to select also the line (account) for which it is applicable and some value.

The programmable key settings are available:

-from the phone menu: Main Menu > User Settings > Programmable keys. See Programmable Keys on page 13 and Customizing your phone with User Settings menu on page 51. Not applicable to Temporis IP100.

-from the WUI System>Programmable keys page. See Programmable Keys on page92 .

-as parameters in the configuration file. See "pfk" Module: Programmable Feature Key Settings on page 163.

Functions available to programmable keys

A PFK can be assigned one of the following functions:

Line

Directory

Call History

Redial

Messages

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Do not disturb

Quick Dial

BLF—Busy lamp field keys let you monitor activity at other phones. The key LED indicates call status.

Call Forward Unconditional

Call Forward Busy

Call Forward No Answer

Call Forward All

Park Call—Dials the access code to park your current call, or transfers the call to the parking extension. To program access codes, see Using the Admin Settings menu on page 53.

Retrieve Parked Call—Dials the access code to retrieve a parked call.

In-Call DTMF—Dials a string of numbers while you are on a call. For example, pressing the key might dial a conference access code.

Call Back—Dials the number of the last missed call.

Intercom/Page—If this feature is enabled, press the Intercom key to call one or a group of phones. You can configure Intercom calls to be automatically answered. See SIP Account Management on page 72.

Multicast page—When enabled as a multicast page key, the user can press the key to page other phones. Multicast paging differs from standard paging in that it is handled locally by the Deskset and does not require a subscription through the hosted server.

ACD—If enabled as an ACD (Automatic Call Distribution) key, the user can press the key to display the ACD State menu on the phone. The user can select an ACD state from the menu, and the key LED will indicate the selected state. See the User Guide for more information about using the ACD State menu. The ACD feature is compatible with Broadsoft's Broadworks Call Center Application.

Group Call Pickup—Dials the Group Call Pickup code, allowing you to answer a call ringing at another extension.

Direct Call Pickup—Dials the Direct Call Pickup code, allowing you to answer a call ringing at a specific extension. After pressing the button, you may need to enter the extension number manually.

LED behavior

For a PFK, LED behavior depends on the function assigned, according to the following table:

Key Function	LED Activity	Description
Line	Flashing ORANGE Steady GREEN Quickly flashing GREEN Slowly flashing GREEN	Account not registered Dialing or on a call Ringing incoming call Held call
Shared account	Steady ORANGE Slowly flashing ORANGE	Shared account is on a call Shared account is on hold
Do Not Disturb	Off Steady ORANGE	DND is off DND is on
Call Forward	Off	Call forwarding is off

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	Steady ORANGE	Call forwarding is on
Page	Steady GREEN	Outgoing page in progress
Busy Lamp Field	Off	Monitored phone is idle
	Steady ORANGE	Monitored phone is on a call or has a held call
	Quickly flashing ORANGE	The monitored phone is ringing
	Flashing ORANGE	BLF registration error
Automatic Call Distribution	Quickly flashing GREEN	ACD agent "wrap up" state
	Steady GREEN	ACD agent ready state
	Slow Flash GREEN	ACD agent unavailable state
	Steady ORANGE	ACD logged on
	Slowly flashing ORANGE	ACD logged off
	Quickly flashing ORANGE	ACD subscription error

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Adding a Custom Logo

For **Temporis IP150, IP300, IP700G and Conference IP1850** you can upload custom logos to be displayed on the phone idle screen and during bootup. Uploading logos is done using the configuration file. The parameters for uploading custom logos are described in [Uploading a custom logo](#) on page 37. The default logo for both **bootup** and **idle** mode is the **ALCATEL** logo.



Idle screen logo behavior

The behavior described below is **enabled** by default and can be modified or disabled using the configuration files.

For **Temporis IP150, IP300 and Conference IP1850** you can enable the idle mode logo to appear instead of the idle screen after a specified period of inactivity. You can also enable the phone screen to cycle between the logo and the idle screen when the phone is in idle mode by setting both the `user_pref.idle_to_logo_timeout` and the `user_pref.logo_to_idle_timeout` parameters.

For **IP700G** there is no cycling; default or customized logo (or no logo) will be displayed on the idle screen.

See also "user_pref" Module: User Preference Settings on page 159 for more details about these parameters.

Logo specifications

The file type and dimensions for bootup and idle screen logos are listed in the table below.

Model	File type	Dimensions (wxh)
Temporis IP150 Temporis IP300 Conference IP1850	Monochrome bitmap (.bmp)	158×57 pixels
Temporis IP700G	Monochrome bitmap (.bmp)	206×51 pixels

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Positioning a custom logo on the screen is a matter of creating a logo with the maximum dimensions listed above, including any surrounding white space. There are no configuration file settings to specify the x-axis or y-axis position of the logo on the screen.

Uploading a custom logo

The `file.bootup_logo` and `file.idle_logo` parameters in the configuration file allow you to upload a custom bootup logo and custom idle logo. Place the logos on your server and enter the URL for each logo for the `file.idle_logo` and `file.bootup_logo` parameters.

If the downloaded logo is found to be invalid, the syslog will record one of the following errors:

- file not found
- invalid file format
- incorrect image size
- image is not in black and white

See “file” Module: Imported File Settings on page 164 for more details about these parameters.

Custom logo user interactions

For **Temporis IP150, IP300 and Conference IP1850** users, pressing any hard key will exit the idle logo and perform the key’s function. For example, pressing **MENU** will show the Main Menu.

Pressing a soft key when the idle logo is showing will switch to the idle screen.

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Customizing Softkeys

For **Temporis IP150, IP300, IP700G and Conference IP1850**, configuration file allows you to select which soft keys should appear on the Idle screen, Active Call screen, Held Call screen and Live Dial screen. You can also specify the position of each soft key.

Some soft keys appear only under certain conditions. For example, the Line soft key on the Idle screen appears only if there is more than one registered SIP account. When a “conditional” soft key is not visible, the soft key’s position is left empty.

Soft key levels with no soft keys will not be shown if there are multiple soft key levels (as indicated by the ◀ and ▶ icons). Any soft key level where all soft keys are invisible will be dynamically skipped when the user navigates through the available levels. On the Temporis IP150, IP300 and IP1850, a soft key level consists of three soft keys (populated or blank) in a row. On IP700G each level consists of four soft keys.

The table below shows the soft key options available for each screen. Each screen can have a maximum of nine soft keys.

NOTE: You cannot edit Soft Key text. The configuration file parameters allow you to only select and position the soft keys for each screen. Texts listed here correspond to English; each language has its own soft key list. Should you need this list for a particular language, please contact your support team.

Screen	Available Soft Keys	Soft Key Text
Idle	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Messages	Message
	Do Not Disturb	DND
	Call Forward	CallFwd
	Call Forward All	FwdAll
	Call Forward No Answer	CFNA
	Call Forward Busy	FwdBusy
	Intercom	Intercom
	Retrieve Parked Call	Retrieve
	Call Return	CallBack
	Group Call Pickup	GrpPickup
Direct Call Pickup	DirPickup	

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	Line (visible with more than one account registered)	Line
	Settings	Settings
Call Active	Blank	
	New	New
	Park Call	Park
	End	End
	Hold	Hold
	Transfer	Transfer
	Conf	Conf
	XferLine (visible with more than one call)	XferCall
	ConfLine (visible with more than one call)	ConfCall
Call Held	Blank	
	End	End
	New	New
	Park Call	Park
	Retrieve Parked Call	Retrieve
	Group Call Pickup	GrpPickup
	Direct Call Pickup	DirPickup
	Resume	Resume
	Transfer	Transfer
	Conf	Conf
	XferLine (visible with more than one call)	XferCall
	ConfLine (visible with more than one call)	ConfCall
Live Dial	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Messages	Message

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End	End
Dial	Dial
Input (alpha/numeric selection for text input mode)	123
Cancel	Cancel
Backspc	Backspc

Custom Soft Key Configuration File Settings

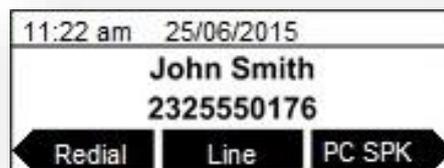
The custom soft keys parameters are included in the "softkey" module. For more information, see "softkey" Module: Custom Soft Key Settings on page 168.

To modify a soft key parameter, enter values separated by commas. Soft keys appear on the phone screen in the same order as the soft key values you enter. For example, if you take IP150, IP300 or IP1850, the parameter/value combination of `softkey.idle = line,dir,settings` will result in the Idle screen shown below:

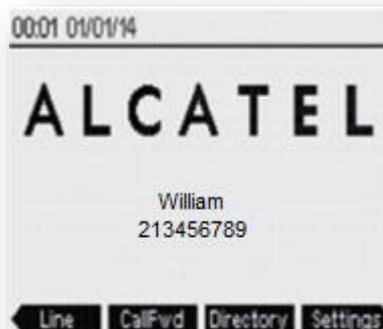


Note in the above example ◀ and ▶ icons are not displayed as the configured value yields only one softkey level.

If for Conference IP1850 you take the default parameter/value combination `softkey.idle = redial,line,pc_spk, call_log,blank ,dir` the idle screen below would result:



And this would be the idle screen for an IP700G where `softkey.idle = line,call_fwd, dir,settings,call_log,redial,message,dnd`



Setting up Temporis IP100 phone

Temporis IP100 has specific management procedures due to its simpler user interface without a display.

You can configure the phone using one of three methods:

- From the phone itself, using the "star codes" to setup very few network related parameters. It is called "star codes" because it is a sequence of digits to be typed on the phone keypad starting by "*" (star) key.
- The Web User Interface, or WebUI, which you access using your Internet browser. See Using the WebUI on page 68. The browser-based interface is easy to navigate and best-suited to configuring a large variety of phone settings. The WebUI has every setting required for configuring a single phone. You can enter service provider account settings on the WebUI, configure the programmable keys, and set up provisioning, which will allow you to automatically and remotely update the phone after initial configuration.

The configuration file. Working with configuration files is the best way to configuring multiple phones. There are several methods available to enable the phone to find the configuration file. For example, you can enable the phone, when it starts up or reboots, to check for the presence of a configuration file on a provisioning server. If the configuration file is new or has been modified in any way, the phone automatically downloads the file and applies the new settings. For more information, see Provisioning Using Configuration Files on page 139.

Using the phone "star codes"

As there is no display on this phone, some "star codes" have been implemented to help make the installation and maintenance easier.

Find IP address

When the phone is in idle mode, type on the keyboard the following sequence:

*** 1 2 3 4 5 6 #**

The IP address of the phone will be announced digit after digit, on the telephone loudspeaker. For instance: one, nine, two, dot, one, six, eight, dot, one, zero, zero, dot, one, zero, zero.

Static IP configuration

When the phone is in idle mode, type on the keyboard the following sequence:

*** 7 8 2 8 4 2 # x * x * x * x # y * y * y * y # z * z * z * z #**

Where **x * x * x * x** is the IPv4 address the phone will be assign to, **y * y * y * y** is the subnet mask and **z * z * z * z** is the default gateway IPv4 address.

The "*" character replaces the usual IPv4 bytes separator "." (dot).

Example: *782842#192*168*100*100#255*255*255*0#192*168*100*1#

A confirmation tone will be played on the telephone loudspeaker before the phone applies the new IP configuration. No reboot is needed.

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VLAN configuration

Enable VLAN

When the phone is idle mode, type on the keyboard the following sequence:

*** 7 8 2 8 4 3 # 1 # x #**. Where x is the Vlan ID.

A confirmation tone will be played on the telephone loudspeaker before the phone applies the new VLAN configuration. No reboot is needed.

Disable VLAN

When the phone is idle mode, type on the keyboard the following sequence:

*** 7 8 2 8 4 3 # 0 # #**

A confirmation tone will be played on the telephone loudspeaker before the phone applies the new VLAN configuration. No reboot is needed.

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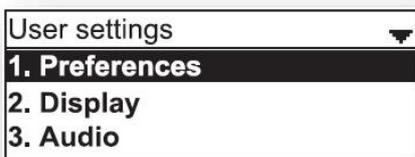
Setting up IP300/IP700G with IP70H accessory DECT headset

Temporis IP300 and IP700G models embed a DECT base which allows you to use compatible cordless accessories. You can register and use up to one **IP70H** accessory headset and one **IP15** accessory handset.

Note MMI options are the same for IP300 and IP700G despite the different display size. Thus pictures show IP300 but can be used as reference for IP700G as well.

Register a DECT headset

1. When the phone is idle, press **MENU**.
2. On the Main menu, press **▲** or **▼** to highlight **3.User Settings**, then press **OK**. The User Settings menu appears.



3. On the User settings menu, press **▲** or **▼** to highlight **5.DECT headset**, then press **OK**.



4. Remove and replace the cordless headset from its charging base.
5. With **Register** highlighted, press **OK** on the deskset. **Registering....** appears while the deskset searches for the headset

When registration is complete, Registration succeeded will be displayed and ON/OFF light on the cordless headset turns solid blue.

Note: Registration can be terminated by pressing **CANCEL** on the deskset.

If the cordless headset is registered to another phone, it must be deregistered first. See "Deregistering a DECT headset". Same applies when the deskset already has one headset registered. It has to be deregistered to be replaced with a new one.

Deregister a DECT headset

1. When the phone is idle, press **MENU**.
2. On the Main menu, press **▲** or **▼** to highlight **3.User Settings**, then press **OK**. The User Settings menu appears.
3. On the User settings menu, press **▲** or **▼** to highlight **5.DECT headset**, then press **OK**.
4. With **Deregister** highlighted, press **OK** on the deskset. The deskset screen displays **DECT headset is deregistered**. The headset ON/OFF light flashes twice every five seconds to indicate it is not registered.

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Deregister a DECT headset without a deskset

You can use this method when you cannot use the deskset for standard deregistration. The deskset may be out of range or may have been removed from the system.

On the headset, press **VOL+>ON/OFF>VOL->ON/OFF>VOL+>VOL->ON/OFF**

Deskset functionality with an IP70H DECT headset

With IP70H registered to IP300 or IP700G, users can:

- Take the line to place a call in headset mode , or predial and launch the call in headset mode, with IP70H ON/OFF button, or deskset  key
- Receive incoming calls and call waiting tone signalling on the headset
- Answer a call in headset mode, by pressing. IP70H ON/OFF button, or deskset key
- Toggle between two calls by long pressing MUTE key on the headset
- Navigate through calls with the usual call selection methods on the deskset, while keeping audio on the cordless headset
- Switch to handset or hands free mode anytime during the call

For more instructions please see IP70H Quick User guide.

Setting up IP300/IP700G with IP15 accessory DECT handset

Temporis IP300 and IP700G desksets embed a DECT base which allows you to use compatible DECT accessories. You can register and use up to one IP70H accessory headset and one IP15 accessory handset.

Note MMI options are the same for IP300 and IP700G despite the different display size. Thus pictures show IP300 but can be used as reference for IP700G as well.

Register a DECT handset

1. When the phone is idle, press **MENU**.
2. On the Main menu, press **▲** or **▼** to highlight **3.User Settings**, then press **OK**. The User Settings menu appears.



3. On the User settings menu, press **▲** or **▼** to highlight **6.DECT handset**, then press **OK**.



4. Set your handset to registration mode using the menu (**Menu>User settings>Registration**)

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5. With **Register** highlighted, press **OK** on the deskset. **Registering....** appears while the deskset searches for the handset

When registration is complete, **Registration succeeded** will be displayed and the handset will display its idle screen.

If the handset you are registering to the deskset is equipped with an IP15 firmware version, then you will see a message prompting you to upgrade it for a better compatibility. Check with your technical support to get an IP10 firmware, and see section Firmware Upgrade on page 124 for handset upgrade over-the air instructions.

Note: Registration can be terminated by pressing **CANCEL** on the deskset.

If the deskset already has one handset registered it has to be deregistered to be replaced with a new one. See next section "Deregistering a DECT handset".

Deregister a DECT handset

6. When the phone is idle, press **MENU**.
7. On the Main menu, press **▲** or **▼** to highlight **3.User Settings**, then press **OK**. The User Settings menu appears.
8. On the User settings menu, press **▲** or **▼** to highlight **6.DECT handset**, then press **OK**.
9. With **Deregister** highlighted, press **OK** on the deskset. The deskset screen displays **DECT handset is deregistered**. The handset will show its unregistered status.

Deskset functionality with an IP15 DECT handset

With the accessory handset (IP15) registered to IP300 or IP700G, users can:

- Select dialing line for a call with **LINE** softkey
- Use the handset's local directory, or deskset's directories (local, LDAP, black list)
- Use deskset's call history and account related services (DND, Call forward, Anonymous calls)
- Answer incoming calls, waiting calls and perform hold, mute, transfer and conference
- Locate the handset from the deskset with an acoustic warning via "Locate" softkey. Check chapter about Status menu on page 49.

For more detailed instructions please see IP315 and IP15 Quick User guides.

Setting up IP2015 with multiple IP15 handsets

Alcatel IP2015 IP DECT system supports up to six IP15 handsets and six independent sip accounts, and a maximum of four concurrent calls in wide band.

The basic package consists of one base and one IP15 handset. For this you will only need to set up the minimum configuration, i.e. IP connectivity and one sip account, to have your system up and running.

If you wish to use more than one handset and/or more than one account, you will need to perform some additional configuration steps, either using the WUI or configuration files. Basically you will be adding the new accounts, managing the new handsets, and assigning handsets to accounts.

To configure additional sip accounts using the web interface, see SIP Account Management on page 72.

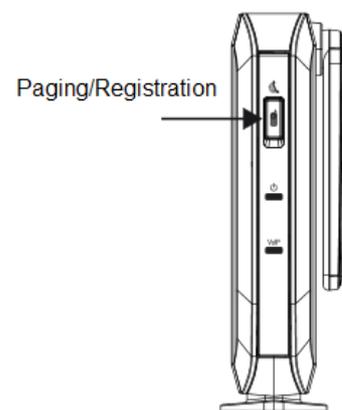
If you prefer to use configuration files, see "sip_account" Module: SIP Account Settings on page 150.

Managing additional IP15 handsets

To associate a new handset to the base:

If you are installing the basic IP2015 package, your handset is already subscribed to the base. So if you are installing a system with only one handset you can skip this section. If you acquire additional handsets you will need to follow these simple steps to associate them to your base.

1. Press Registration button on the base for 4 seconds, then release. The two leds will blink in orange
2. In your new IP15 handset, go to **Menu>User Settings>Registration>Handset**
3. Select "BASE" softkey and press # key. Input system PIN is you are asked for it. Default is 0000
4. Your handset should be subscribed and display idle screen with the assigned handset number (1 to 6)



To rename a handset:

Handset name can be modified to suit your needs. Handset menu, IP2015 web interface or configuration files can be used for this purpose. Note the handset has to be associated with the base.

To change the name displayed on the idle screen from handset menu:

1. On the target IP15 handset, go to **Menu>User Settings>Phone rename**
2. Edit the name and press **Set**

To change handset name using WUI, see Handset name on page 104

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To configure handset name using provisioning files, see "hs_settings" Module: Handset management Settings on page 169

To disassociate a handset from the base:

1. On one subscribed IP15 handset, go to **Menu>User Settings>Registration>Handset>Deregistration**
2. Enter system PIN. Default is 0000
3. Select the handset you wish to unregister. If only one handset were registered, then it will be automatically unregistered without selecting anything
4. The handset will display the unregistered status screen

To disassociate all handsets from the base:

1. Press and hold Paging/Registration key for 10secs
2. Release the key and then short press again
3. All handsets will be unregistered from the base

Assigning sip accounts to IP15 handsets

By default all handsets can use all active accounts, and all handsets will use sip account 1 to dial out.

You can modify this behavior by deciding which handsets are allowed to use which accounts, and what the default dial out account for each handset will be. WUI and config files can be used for this purpose.

To assign handsets to accounts and default dial out account using the web interface, see Handset Settings, Account assignment on page 103

To assign handsets to accounts and default dial out account using configuration file parameters, see "hs_settings" Module: Handset management Settings on page 169

Moreover, you can select dialing line among assigned accounts on a per call basis. To do this, simply press **LINE** softkey on your IP15 handset and make your choice.

IP2015 functionality with IP15 DECT handsets

With one or more handsets (IP15) registered to IP2015 base, users can:

- Select dialing line for a call with **LINE** softkey
- Use the handset's local directory, or the base's directories (local, LDAP, black list)
- Use the base's call history and account related services (DND, Call forward, Anonymous calls)
- Answer incoming calls, waiting calls and perform hold, mute, transfer and conference
- Locate the handsets from the base. Pressing Paging key will trigger an acoustic warning on all in-range handsets.

For more detailed instructions please see IP2015 and IP15 Quick User guides.

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Using Menu in your desktop phone

Your desktop phone **Temporis IP150/IP300/IP700G** or **Conference IP1850** menu has four main sub-menus:

Features—manage calls, view and add directory entries, view call history, access messages, and use the speed dial menu.

Status—view the deskset network status, account registration status, and product information.

User Settings—allows the user to set the language for the display, configure the appearance of the display, or customize the audio settings.

Admin Settings—configure network settings (enter static IP addresses, for example) and line settings.

This guide mainly contains instructions for using the Admin Settings menu and for accessing the Status menu, but we will also give an overview on Features and User Settings.

See Features chapter on page 48, or check your product Quick User Guide for more information about Features.

See Customizing your phone with User Settings menu chapter on page 51.

To use the phone menu:

1. When the phone is idle, press **MENU**.

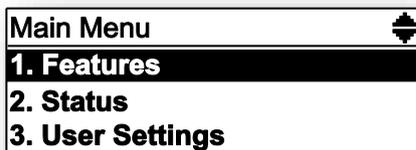
The main menu appears.

2. Press **▼** or **▲** to highlight the desired sub-menu, and then press **OK**.

You can also press a corresponding dial pad key to select a numbered menu item. Press **2** for the Status menu, for example.

Press **OK** or an appropriate soft key to save changes.

Press **↶** to cancel an operation, exit the menu display or return to the idle screen.



Features

The table below summarizes the different features available in this menu. Note “n” stands for the maximum number of sip accounts available for each model, i.e. 2 for IP150, 3 for IP300 and IP1850, or 5 for IP700G. For more details about usage please check the corresponding product Quick User Guide.

Level 1	Level 2	Level 3	Level 4
1. Call	1.Do not disturb	Line 1 ... Line n	ON/OFF
	2.Call Forward	Line 1 ... Line n	CF Always (on/off, target) CF Busy (on/off, target) CF No Reply (on/off, target, timer)

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	3.Block Anonymous	Line 1 ... Line n	ON/OFF
	4.Dial Anonymous	Line 1 ... Line n	ON/OFF
	5.Missed Call Alert	Yes/No	
	6.Call waiting	Yes/No	
2. Directory	1.Local	Entries	Search, sort, add, delete, delete all, dial, edit, number type
	2.LDAP (name displayed and availability depends on configuration)	Entries	Search, sort, dial, edit, number type, save to Local or black list
	3.Broadsoft (name and availability depends on configuration)	Entries	
	4. Black List	Entries	Search, sort, add, delete, delete all, dial, edit, number type
3. Call History	1.All calls	Entries	View, Dial, Edit dial, save to Local or black list, Delete all
	2.Missed calls	Entries	
	3.Received calls	Entries	
	4.Dialed calls	Entries	
4. Message	Line 1 ... Line n	Call VM	
5. Speed Dial	Key 0 to 9	Add/Edit/Delete	

Status

Use the status menu to verify network settings and begin troubleshooting if network problems or account registration issues affect phone operation.

You can also find the software version of the phone on the Product Info screen, available from the Status menu.

To view the Status menu:

1. When the phone is idle, press **MENU**.

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2. On the Main menu, press ▲ or ▼ to highlight **Status**, then press **OK**. The Status menu appears.



3. On the Status menu, press ▲ or ▼ to highlight the desired menu, then press **OK**.

The available status menus are:

Menu	Information listed
1. Network	IP address DHCP status (Enabled/Disabled) Subnet Mask IP address Gateway IP address DNS server 1 IP address DNS server 2 IP address SNTP server URL MAC address
2. Line	Lines and registration status. On the Line menu, highlight and select the desired line to view detailed line status information: Line status (Registered/Not registered/Disabled) Line display name Line User ID Server address Server Port number Proxy server address Proxy server port number
3. Product Info	Model number Serial number MAC address Software version V-Series Hardware version
4. Cordless Accessories	DECT handset (Registered/Not registered, Locate softkey) DECT headset (Registered/Not registered)

Note

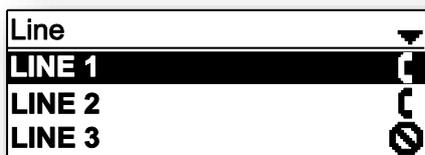
To view Network status you can also use the following shortcut. In idle mode, press  key.

Viewing Line status

When you select **Line** from the Status menu, the **Line** menu appears, listing the available lines along with icons indicating each line's current registration status.

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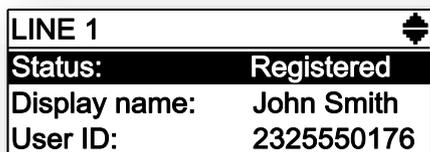
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Icon	Description
	Line registered
	Line not registered
	Line disabled

To view complete status information for a line:

1. On the **Line** menu, press **▲** or **▼** to highlight the desired line, then press **OK**. The full line status screen appears.



Customizing your phone with User Settings menu

User Settings menu allows easy customization of some aspects of the phone, e.g. language, time and date, preferred ring tone, setting programmable keys or DECT accessories configuration.

To view the User Settings menu:

1. When the phone is idle, press **MENU**.
2. On the Main menu, press **▲** or **▼** to highlight **User Settings**, then press **OK**. The User Settings menu appears.

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Main Menu 
1. Features
2. Status
3. User Settings

The available options appearing when you enter User Settings menu are as follows, where "n" is the maximum number of sip accounts supported in your product (i.e. 2 for IP150, 3 for IP300 and IP1850, 5 for IP700G) and "M" is the number of available PFK appearances (i.e. 20 for IP150, 24 for IP300, 36 for IP700G):

Level 1	Level 2	Level 3
1. Preferences	1. Language	1.English 2.Spanish 3.French 4.German 5.Italian 6.Portuguese 7.Dutch 8.Greek 9.Russian 10.Turkish
	2. Date and time	12h/24h Date format NTP/Manual Time zone DST
	3. Restart phone	
2. Display	Contrast (Level 1 to 7)	
	Backlight state (High/Med/Low/Off)	
	Idle Backlight state (High/Med/Low/Off)	
	Backlight timeout (10 to 60sec)	
3. Audio	1. Ring tone	Line 1 (Ringtone 1 to 10) ... Line n (ringtone 1 to 10)
	2. Key tone	On/Off
	3. Audio mode (for autoanswer)	1. Speaker 2. Headset
4. Program Keys	Key 1 Key 2 ... Key m	1. Line 2. Directory 3. Call History 4. Redial 5. Messages 6. Do not Disturb 7. Call Forward All 8. Call Fwd No answer

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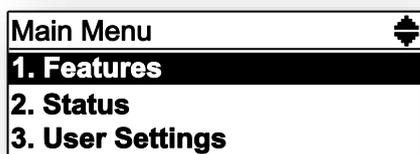
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		9. Call Fwd Busy 10. Quick Dial 11. BLF 12. ACD 13. Intercom 14. Multicast Page 15. Park 16. Retrieve Park 17. In call DTMF 18. Call Return 19. Group Pickup 20. Directed Pickup 21. N/A
5. DECT headset	1. Register	
	2. Deregister	
6. DECT handset	1. Register	
	2. Deregister	

Using the Admin Settings menu

To access the Admin Settings menu:

1. When the phone is idle, press MENU. The Main menu appears.



2. Press ▲ or ▼ to highlight **Admin Settings**, then press **OK**.
-or-
Press 4 (Admin Settings) on the dial pad.
3. Use the dial pad to enter the admin password, then press **OK**. The default password is **admin**.

The Admin Settings are:

Setting	Options
1. Network Setting	1. DHCP (Enable, Disable) 2. Set static IP 3. VLAN ID 4. Others
2. Line Menu	1. LINE 1

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	... N. LINE N
3. Provisioning Menu	1. Server 2. Login 3. Password
4. Reset to default	Press OK to display a screen that allows you to reset the phone to factory default settings.
5. Restart phone	Press OK to display a screen that allows you to restart the phone.

Network Setting

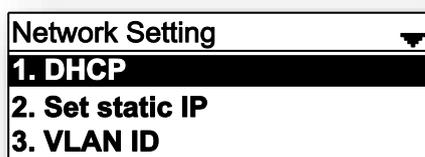
Use the Network setting menu to configure network-related settings for the phone.

Note: After you press **Save** for any of the network settings, the phone may restart.

To use the Network setting menu:

1. From the Admin Settings menu, press **▲** or **▼** to highlight **Network setting**, then press **SELECT**.

The Network setting menu appears.



2. Press **▲** or **▼** to highlight the desired option, then press **OK**:

DHCP

Set static IP

VLAN ID

Others (DNS and NTP servers).

To enable or disable DHCP:

1. From the Network setting menu, press **▲** or **▼** to highlight DHCP, then press **SELECT**.
2. Press **◀** or **▶** to select Enabled or Disabled, then press **Save**.

DHCP is enabled by default, which means the deskset will get its IP address from the network. When DHCP is disabled, you must enter a static IP address for the deskset.

Note: You must be familiar with TCP/IP principles and protocols to configure static IP settings.

To set static IP for the deskset:

1. From the Network setting menu, press **▲** or **▼** to highlight **Set static IP**, then press **OK**.

If DHCP is disabled, the **Set static IP** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the Network setting menu.

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2. On the Set static IP menu, enter the static IP address. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.

Set static IP	
IP:	192.168.0.100
Subnet Mask:	255.255.255.0
Backspc	Add dot
Save	

3. Press ▼ and enter the Subnet Mask. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
4. Press ▼ and enter the Gateway. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
5. Press **Save**.

To set the VLAN ID for the deskset:

1. From the Network setting menu, press ▲ or ▼ to highlight **VLAN ID**, and then press **OK**.
2. On the VLAN ID menu, press ◀ or ▶ to enable or disable the WAN VLAN.

VLAN ID	
WAN Vlan:	Disabled
WAN port:	0
Cancel	Save

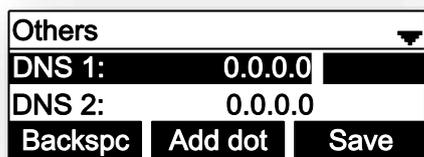
3. Press ▼ and enter the WAN VID. Use the dial pad and the **Backspc** soft key to enter characters. The valid range is 0 to 4095.
4. Press ▼ and then press ◀ or ▶ to enable or disable the PC port VLAN.
5. Press ▼ and enter the PC VID. Use the dial pad and the **Backspc** soft key to enter characters. The valid range is 0 to 4095.
6. Press **Save**.

To set other settings (DNS and NTP):

1. From the Network setting menu, press ▲ or ▼ to highlight **Others**, then press **OK**.
If DHCP is disabled, the **Others** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the Network setting menu.

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The screenshot shows a menu titled "Others" with a dropdown arrow. Below it are two rows: "DNS 1: 0.0.0.0" and "DNS 2: 0.0.0.0". At the bottom are three soft keys: "Backspc", "Add dot", and "Save".

Others ▼		
DNS 1:	0.0.0.0	
DNS 2:	0.0.0.0	
Backspc	Add dot	Save

2. Enter the IP address for the primary DNS server. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
3. Press ▼ and enter the IP address for the secondary DNS server. The deskset uses this server if the primary server does not respond.
4. Press ▼ and enter the IP address for the NTP server. If the deskset does not use an NTP server, you must manually enter the time and date settings.
5. Press **Save**.

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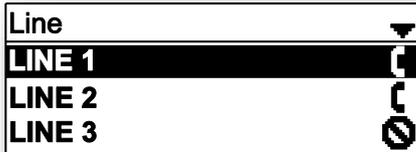
Line Menu

Use the Line menu to configure line-specific settings for the phone.

To use the Line setting menu:

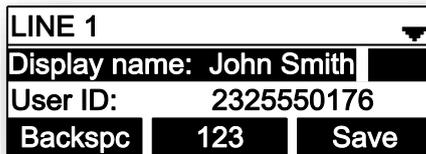
1. From the Admin Settings menu, press ▼ to highlight **Line**, and then press **SELECT**.

The Line menu appears.



2. Highlight the desired line, if necessary, by pressing ▼, and then press **SELECT**.

The full configuration menu for that line appears.



You can configure:

- Display name
- User ID
- Authorization ID
- Authorization Password
- SIP Registrar Server IP
- Registrar Server port
- Proxy server IP
- Proxy server port
- Register (Yes or No)
- Answer page (Manual or Auto)

For more information about these settings, see SIP Account Management on page 72.

3. Edit the Line settings using the dial pad and the soft keys available for each setting:

- **Backspc**—deletes a character
- **123**—enables you to enter numbers, lower case letters, or upper case letters with the dial pad. Does not appear when the setting accepts numbers only.
- **Save**—saves and applies the new settings
- **Edit**—enables you to edit the setting (appears for the Password setting)

Press ◀ or ▶ to advance to the next character.

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Provisioning Menu

Use the Provisioning menu to manually configure auto-provisioning settings. For more information about auto-provisioning, see Provisioning on page 127 and Provisioning Using Configuration Files on page 139.

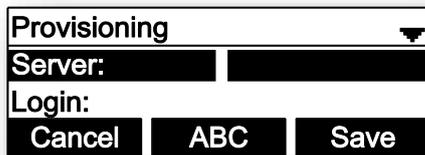
On the Provisioning menu you can configure:

- Server string—the URL of the provisioning server. The URL can include a complete path to the configuration file.
- Login ID—the username the phone will use to access the provisioning server.
- Login PW—the password the phone will use to access the provisioning server.

To use the Provisioning menu:

1. From the Admin Settings menu, press ▼ to highlight **Provisioning**, and then press **OK**.

The Provisioning menu appears.



2. Enter the server URL using the dial pad keys:

- **Backspc**—deletes a character
- **123**—enables you to enter numbers, lower case letters, or upper case letters with the dial pad. Does not appear when the setting accepts numbers only.
- **Save**—prompts you to reboot the phone and apply the new settings
- **Edit**—enables you to edit the setting (appears for the Password setting)

The format of the URL must be RFC 1738 compliant, as follows:

"<schema>://<user>:<password>@<host>:<port>/<url-path>"

"<user>:<password>@" may be empty.

"<port>" can be omitted if you do not need to specify the port number.

3. Press ▼ to move to the next line and enter the Login ID for access to the provisioning server if it is not part of the server string.
4. Press ▼ to move to the next line and enter the Login password.
5. Press **Save**.

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Using Menu in your IP15 cordless handset

Your cordless handset **IP15** menu has nine sub-menus:

Message-access voicemail for assigned accounts

Directory-access and manage contact directory

Call History-access and manage call lists

Intercom-launch internal calls to other handsets

Speed dial- manage your speed dial list

Features—manage calls

Status—view the deskset network status, account registration status, and product information.

User Settings—allows the user to set the language for the display, configure the appearance of the display, or customize the audio settings.

Admin Settings—configure network settings (enter static IP addresses, for example), provisioning settings, launch handset firmware upgrade, change DECT system PIN or enable secure browsing for example.

The first six submenus can be considered to be mainly functionality related, whereas the last three are more connected to administration.

This guide mainly contains instructions for using the Admin Settings menu and for accessing the Status menu, but we will also give an overview on the other submenus, which we will group in a User Functionality submenus chapter.

To use the phone menu:

1. When the phone is idle, press **MENU**.

The main menu appears.

2. Press **▼** or **▲** to highlight the desired sub-menu, and then press **OK** key, or **ENTER** soft key

Press **OK** or an appropriate soft key to save changes.

Press  or an appropriate soft key to cancel an operation, exit the menu display or return to the idle screen.

User functionality submenus

The table below summarizes the different functions available in the user functionality related submenus.

Depending on whether you are using your IP15 handset with an IP2015 base or with a Temporis IP300/Temporis IP700G desk set, some minor differences can be found. They are detailed in the table.

Level 1	Level 2	Level 3
Message (n is the number of available sip accounts on the	Line 1 ... Line n	

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product or assigned to the handset on IP2015)		
Directory	Local directory	Options: Search/Add new/Delete all/ Review: Dial/Edit/Edit dial/Delete
	Base directory	With IP2015 base: Options: Search/Add new/Delete all Review: Dial/Edit/Edit dial/Delete With IP300/IP700G deskset: Options: Search Review: Dial, Edit dial
	LDAP (name depending on configuration)	Search, Dial, Edit dial, Save
	Broadsoft (name depending on configuration)	Search, Dial, Edit dial, Save
	Blacklist	With IP2015 base: Options: Search/Add new/Delete all Review: Dial/Edit/Edit dial/Delete With IP300/IP700G deskset: Options: Search Review: Dial, Edit dial
Call history	Missed calls	With IP2015 base: Delete all Review: Delete/Dial/Edit dial /Save With IP300/IP700G deskset: Review: Dial/Edit dial /Save
	Received calls	With IP2015 base: Delete all Review: Delete/Dial/Edit dial /Save With IP300/IP700G deskset: Review: Dial/Edit dial /Save
	Dialed calls	With IP2015 base: Delete all Review: Delete/Dial/Edit dial /Save With IP300/IP700G deskset: Review: Dial/Edit dial /Save
Intercom (with IP2015 only; m is the number of	Handset 1 ... Handset m	

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registered handsets)		
Speed dial	1. 2. ... 0.	Add/Edit/Delete
Features	DND	Available or assigned accounts list DND status OK to toggle, SET to save
	Call Forward	Available or assigned accounts list CFW statuses OK to toggle, SET to save
	Block Anonymous	Available or assigned accounts list CFW statuses OK to toggle, SET to save
	Dial as anonymous	Available or assigned accounts list CFW statuses OK to toggle, SET to save
	Lift HS answer	Lift HS answer status OK to toggle, SET to save
	Miss Call alert	Show alert Hide alert SET to save
	Call Waiting	Show alert Hide alert SET to save

Status

Use the status menu to verify network settings and begin troubleshooting if network problems or account registration issues affect phone operation.

You can also find the software version of the phone on the Product Info screen, available from the Status menu.

To view the Status menu:

1. When the phone is idle, press **MENU**.
2. On the Main menu, press **▲** or **▼** to highlight **Status**, then press **OK**. The Status menu appears.



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3. On the Status menu, press ▲ or ▼ to highlight the desired menu, then press **OK**.

The available status menus are:

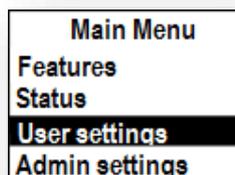
Menu	Information listed
Network	IP address DHCP status (Enabled/Disabled) Subnet Mask IP address Gateway IP address DNS server 1 IP address DNS server 2 IP address
Line	Lines and registration status. On the Line menu, highlight and select the desired line to view detailed line status information: Line status (Registered/Not registered/Disabled) Line display name Line User ID Server address
Product Info	Handset Model number Serial number FW version V-Series HW version Base FW version V-Series HW version

User Settings

User Settings menu allows easy customization of some aspects of the phone, e.g. language, time and date, preferred ring tone, or DECT handsets management.

To view the User Settings menu:

4. When the handset is idle, press **MENU**.
5. On the Main menu, press ▲ or ▼ to highlight **User settings**, then press **OK** or **ENTER** softkey. The User settings menu appears.



The available options appearing when you enter User Settings menu are as follows, where "n" is the maximum number of sip accounts supported in your product (i.e. 2 for IP150, 3 for IP300 and IP1850, 5 for IP700G) and "M" is the number of available PFK appearances (i.e. 20 for IP150, 24 for IP300, 36 for IP700G):

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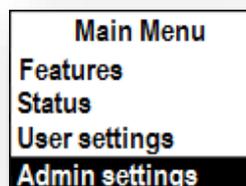
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Language	English Français Español Italiano Português Deutsch Nederlands Ελληνικά	Select and SET/BACK
Set date/time	Date format Set date Clock format Set time	Edit or select and SET/BACK
Phone rename	Edit and SET/BACK	
Contrast (Level 1 to 8)	Select and SET/BACK	
Ringers	Ringer Volume	Select and SET/BACK
	Ringer Tones	Line 1(Melody 1 to 10) ... Line n(Melody 1 to 10)
Low batt tone	On/Off	SET/BACK
Link lost tone	On/Off	SET/BACK
Key tone	On/Off	SET/BACK
Registration	Handset	Select Base or Deskset and launch or cancel
	Deregistration	Enter PIN Select handset (if more than one)

Admin Settings

To access the Admin settings menu:

1. When the handset is idle, press MENU. The Main menu appears.
2. Press ▲ or ▼ to highlight **Admin Settings**, then press **OK**.



3. Use the dial pad to enter the admin password, then press **OK**. The default password is **admin**.

Note: default text input mode on the handset is "Abc" as indicated at the top of the screen. To toggle between "Abc", "ABC" and "abc" modes please press **"*" key**.

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Admin Settings are:

Setting	Options
Network Settings	DHCP (Enable, Disable) Set static IP VLAN ID Others
Secure browsing	Enabled Disabled (Toggle with OK and press SET or BACK. Requires reboot)
Provisioning Menu	Server string Login Password (Edit and SAVE or BACK)
Edit PIN code	Enter old PIN: Enter new PIN: Repeat new PIN:
Firmware update	Checks for available updates installed in the base's memory If updates are available, YES or NO to proceed.

Network settings

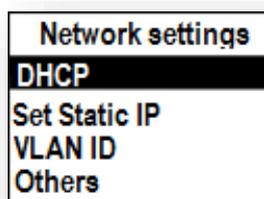
Use the Network setting menu to configure network-related settings for the phone.

Note: After you confirm any of the network settings, the phone may restart.

To use the Network setting menu:

1. From the Admin settings menu, press ▲ or ▼ to highlight **Network setting**, then press **ENTER**.

The Network setting menu appears.



2. Press ▲ or ▼ to highlight the desired option:

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DHCP

Set static IP

VLAN ID

Others (DNS and NTP servers).

, then press **OK** key or **ENTER** softkey.

To enable or disable DHCP:

1. From the Network setting menu, press **▲** or **▼** to highlight DHCP, then press **ENTER**.
2. Press **OK** key to toggle between Enabled and Disabled, then press **SET** softkey.

DHCP is enabled by default, which means the base or desktop phone will get its IP address from the network. When DHCP is disabled, you must enter a static IP address.

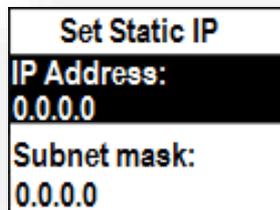
Note: You must be familiar with TCP/IP principles and protocols to configure static IP settings.

To set static IP for the base or desktop phone:

1. From the Network setting menu, press **▲** or **▼** to highlight **Set static IP**, then press **OK** or **ENTER** softkey.

If DHCP is disabled, the **Set static IP** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the Network setting menu.

2. On the Set static IP menu, enter the static IP address. Use the dial pad and "*" key to enter characters and dots.



3. Press **▼** and enter the Subnet Mask. Use **BACKSP** softkey, digit dial pad and "*" key to enter characters and dots.
4. Press **▼** and enter the Gateway. Use **BACKSP** softkey, digit dial pad and "*" key to enter characters and dots.
5. Press **SAVE** softkey.

To set the VLAN ID for the base or desktop phone:

1. From the Network setting menu, press **▲** or **▼** to highlight **VLAN ID**, and then press **OK**.
2. On the VLAN ID menu, press **OK** to toggle between Enable and Disable states for WAN VLAN.

VLAN ID
WAN Port: Disabled
VID: 0

3. Press ▼ and enter the WAN VID. Use the dial pad and the **BACKSP** soft key to enter characters. The valid range is 0 to 4095.
4. Press ▼ and enter WAN Priority. Use the dial pad and the **BACKSP** soft key to enter characters.
5. Press **SAVE**.

To set other settings (DNS and NTP):

1. From the Network setting menu, press ▲ or ▼ to highlight **Others**, then press **OK**.
If DHCP is disabled, the **Others** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the Network setting menu.

Others
DNS1: 0.0.0.0
DNS2: 0.0.0.0

2. Enter the IP address for the primary DNS server. Use **BACKSP** softkey, digit dial pad and "*" key to enter characters and dots.
3. Press ▼ and enter the IP address for the secondary DNS server. The phone uses this server if the primary server does not respond. Use **BACKSP** softkey, digit dial pad and "*" key to enter characters and dots.
4. Press ▼ and enter the IP address or url for the NTP server. Use **BACKSP** softkey and dial pad to enter characters and dots.
5. If the base or desktop phone does not use an NTP server, you must manually enter the time and date settings in User settings menu.
6. Press **Save**.

Provisioning Menu

Use the Provisioning menu to manually configure auto-provisioning settings. For more information about auto-provisioning, see Provisioning on page 127 and Provisioning Using Configuration Files on page 139.

On the Provisioning menu you can configure:

- Server string—the URL of the provisioning server. The URL can include a complete path to the configuration file.
- Login ID—the username the phone will use to access the provisioning server.
- Login PW—the password the phone will use to access the provisioning server.

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To use the Provisioning menu:

1. From the Admin settings menu, press ▼ to highlight **Provisioning**, and then press **OK**.

The Provisioning menu appears.



2. Enter the server URL using the dial pad keys:
 - **BACKSP**—deletes a character
 - *****—enables you to toggle between Abc, ABC, abc input modes. Does not appear when the setting accepts numbers only.
 - **SAVE**—prompts you to reboot the phone and apply the new settings
 - **Edit**—enables you to edit the setting (appears for the Password setting)

The format of the URL must be RFC 1738 compliant, as follows:

"<schema>://<user>:<password>@<host>:<port>/<url-path>"

"<user>:<password>@" may be empty.

"<port>" can be omitted if you do not need to specify the port number.

3. Press ▼ to move to the next line and enter the Login ID for access to the provisioning server if it is not part of the server string.
4. Press ▼ to move to the next line and enter the Login password.
5. Press **Save**.

Using the WebUI

The Web User Interface (WebUI or WUI) resides on your phone. You can access it using an Internet browser, either as a **user** or as an **administrator**.

After you log in to the WebUI, you can configure the phone on different pages. Note the different pages accessible by admin and user profiles, as listed in the following table. Note also not all pages are accessible to all products.

The WebUI also has a **Status** page, where you can view network status and general information about your phone. The information on this page matches the Status menu on the phone.

Section	Page	admin	user
Status	System Status	✓	✓
System	• SIP Account Management	✓	
	• Call Settings	✓	✓
	• Preferences	✓	✓
	• Programmable Keys	✓	✓
	• Speed Dial	✓	✓
	• Signaling	✓	
	• Ringer	✓	
	• Handset management	✓	
	• Paging Zones	✓	
	• Hot line settings	✓	
Network	• Basic Network Settings	✓	
	• Advanced Network Settings	✓	
Contacts	• Local Directory	✓	✓
	• Blacklist	✓	✓
	• LDAP	✓	
	• Broadsoft	✓	
	• Call History	✓	✓

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Servicing	• Reboot	✓	
	• Time and Date	✓	
	• Firmware Upgrade	✓	
	• Provisioning	✓	
	• Security	✓	✓
	• Certificates	✓	
	• System Logs	✓	

To access the WebUI:

1. Ensure that your computer is connected to the same network as your base or desktop phone. Your computer may already be connected to the network through the PC port on the back of your desk set.
2. Find the IP address of your phone:

- a. When the phone is idle, press **MENU**.
- b. Press **▼** to highlight **Status**, and then press **OK**.
- c. With **Network** highlighted, press **OK**.

The Network status screen appears.

Note: Instead of steps a, b, c, in most models you can use the shortcut to Network status (in idle mode press )

- d. On the Network status screen, note the IP Address.

Network	
IP:	192.168.100.100
DHCP:	Enabled
Subnet Mask:	255.255.255.255

- e. For Temporis IP100, please see Find IP address on page 41

3. On your computer, open an Internet browser. (Depending on your browser, some of the pages presented here may look different and have different controls.)
4. Type the phone IP address in the browser address bar and press ENTER on your computer keyboard.



5. A login box appears. Under Username, enter **admin**. For the password, enter the default password, **admin**. You can change the password later on the **Servicing > Security** page. If you wish to login as a user, username and default password would be **user/user**.

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6. On the login box, click **OK**.

The WebUI appears.

Click topics from the navigation bar along the top of the WebUI, and then click links to individual pages along the left. You view and change settings in two different types of fields: drop-down lists and entry fields into which you type information. For your security, the WebUI times out after 10 minutes, so if it is idle for that time, you must log in again.

The remaining procedures in this section assume that you are already logged into the WebUI.

NOTE: The settings tables in this section contain settings that appear in the WebUI and their equivalent tags in the configuration file template. Settings only available on the configuration files are also described. You can use the configuration file template to create custom configuration files. Configuration files can be hosted on a provisioning server and used for automatically configuring phones. For more information, see [Provisioning Using Configuration Files](#) on page 139.

Saving Your Settings

Each WebUI settings page has a **Save** button. Click **Save** to save any changes you have made on the page. During a configuration session, click **Save** before you move on to the next WebUI page.

Status

The status page is equivalent to the Status menu on the phone UI. The information page shows different content depending on the model:

General information about your phone, including model, MAC address, and software version

Account Status information about your SIP account(s) registration

Network regarding your phone's network address and network connection

Cordless Status indicating whether a cordless headset and/or handset are registered to the deskset (IP300 and IP700G models).

Handset Status information (registration and name) for the different handsets (IP2015 model)

The screenshot displays the 'STATUS' page of an Alcatel phone. The page has a dark header with navigation tabs: 'STATUS', 'SYSTEM', 'NETWORK', 'CONTACTS', and 'SERVICING'. The 'STATUS' tab is active. On the left, there is a vertical sidebar with 'STATUS' at the top and 'System Status' below it. The main content area is divided into sections: 'General', 'Account Status', 'Network', and 'Cordless Status'. Each section contains key-value pairs of system information.

STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING
General				
Model:	Temporis IP300			
Serial Number:	40000163			
MAC Address:	74:65:D1:16:22:DA			
Boot Version:	1.01			
Software Version:	1.0.5B			
V-Series:	1.29.5-0-ENG			
Hardware Version:	HW1.0			
Account Status				
Account 1:	Registered			
Account 2:	Not Registered			
Account 3:	Not Registered			
Network				
LAN Port IP Address:	192.168.1.200			
IP Type:	DHCP			
Subnet Mask:	255.255.255.0			
Link Status:	Connected			
Gateway:	192.168.1.1			
Primary DNS:	192.168.1.1			
Secondary DNS:	192.168.1.112			
NTP:	europe.pool.ntp.org			
Cordless Status				
Headset:	Not Registered			
Handset:	Registered			

System

SIP Account Management

On the SIP Account Management pages, you can enter the account settings for each line you have ordered from your service provider. There are one or more Account settings pages (one for each available line) with identical settings on each page. The number of pages depends on the model: one for IP100, two for IP150, three for IP300 and IP1850, five for IP700G and six for IP2015.

The sip account settings are also available as parameters in the configuration file. See "sip_account" Module: SIP Account Settings on page 150.

Note: x stands for sip account index

The screenshot shows a web interface for SIP Account Management. On the left is a navigation menu with categories: SYSTEM, SIP Account Management, Account 1 (selected), Account 2, Account 3, Call Settings, Account 1, Account 2, Account 3, Preferences, Programmable Keys, Speed Dial, Signaling, Ringer, and Paging Zones. The main content area is titled 'General Account Settings' and contains the following fields:

- Enable Account
- Display Name:
- User Identifier:
- Authentication Name:
- Authentication Password:
- Dial Plan:
- Inter-Digit Timeout (secs):
- Maximum Number of Calls:
- Intercom Auto Answer:
- Feature Synchronization:
- Line Type:
- Barge-In:
- DTMF Method:
- Unregister After Reboot:

General Account Settings

Setting	Description	Range	Default
Enable Account <code>sip_account.x.sip_account_enable</code>	Enable or disable the SIP account. Select to enable.	0: Disable 1: Enable	0
Display Name <code>sip_account.x.display_name</code>	Enter the name that will appear on the phone LCD. The display name is also the text portion of the caller ID that is displayed for outgoing calls.	string	blank

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<p>User identifier</p> <p><code>sip_account.x.user_id</code></p>	<p>Enter the User identifier supplied by your service provider. The User ID, also known as the Account ID, is usually the company's main number and is used as part of the caller ID displayed for outgoing calls. This field will only accept digits.</p>	string	blank
<p>Authentication name</p> <p><code>sip_account.x.authentication_name</code></p>	<p>Enter the authentication name (or authentication ID) supplied by your service provider. This is used for authentication with the service provider and in most cases is the same as the User ID.</p>	string	blank
<p>Authentication password</p> <p><code>sip_account.x.authentication_password</code></p>	<p>Enter the account authentication password, as supplied by your service provider.</p>	string	blank
<p>Dial Plan</p> <p><code>sip_account.x.dial_plan</code></p>	<p>Enter the dial plan, with dialing strings separated by a symbol. See Dial Plan on page 74.</p>	string	x+P
<p>Inter Digit Timeout (secs)</p> <p><code>sip_account.x.inter_digit_timeout</code></p>	<p>Sets the timeout before the dialed number is sent to the SIP server.</p> <p>To be more precise, it sets how long the phone waits after any "P" (pause) in the dial string or in the dial plan.</p>	1-10 seconds	3 seconds
<p>Maximum Number of Calls</p> <p><code>sip_account.x.maximum_call_number</code></p>	<p>Select the maximum number of simultaneous voice calls to which you have subscribed from your service provider.</p> <p>The maximum value is 6.</p>	1-6	6
<p>Page/Intercom Auto Answer</p> <p><code>sip_account.x.auto_answer_enable</code></p>	<p>Enables the deskset to automatically answer when an intercom request is received. This is usually the desired behavior for paging.</p>	0: Disable 1: Enable	0
<p>Page/Intercom Auto Answer during active calls</p> <p><code>sip_account.x.auto_answer_during_active_call</code></p>	<p>Enables the desk set to automatically answer when the intercom request is received during an active call</p>	0: Disable 1: Enable	0

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Feature Synchronization	Enables the phone to synchronize with Broadworks Application Server. Changes to features such as DND, Call Forward All, Call Forward No Answer, and Call Forward Busy on the server side will also update the settings on the phone menu and WebUI. Similarly, changes using the phone or WebUI will update the settings on the server.	0: Disable 1: Enable	0
<code>sip_account.x.feature_sync_enable</code>			
Line Type	Select the line type. A private line will be accessible only at the deskset you are configuring.	0: Private 1: Shared	0
<code>sip_account.x.share_line_enable</code>			
Barge-in	Enables subscribers to shared lines to "barge in" on active calls on other shared lines.	0: Disable 1: Enable	0
<code>sip_account.x.barge_in_enable</code>			
DTMF method	Select the default DTMF transmission method. You may need to adjust this if call quality problems are triggering unwanted DTMF tones or you have problems sending DTMF tones in general.	Auto, Event, Inband, SIP INFO	Auto
<code>sip_account.x.dtmf_transport_method</code>			
Unregister after reboot	Enables the phone to unregister the account(s) after rebooting—before the account(s) register again as the phone starts up. If other phones that share the same account(s) unregister unexpectedly in tandem with the rebooting deskset, disable this setting.	0: Disable 1: Enable	0
<code>sip_account.x.unregister_after_reboot_enable</code>			

Dial Plan

The dial plan consists of a series of dialing rules, or strings, that determine whether what the user has dialed is valid and when the phone should dial the number.

Dialing rules must consist of the elements defined in the table below.

Element	Description
x	Any dial pad key from 0 to 9, including # and *.
[0-9]	Any two numbers separated by a hyphen, where the second number is greater than the first. All numbers within the range are valid, excluding # and *.

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x+	An unlimited series of digits.
,	This represents the playing of a secondary dial tone (<SIP_2ND_TONE>) after the user enters the digit(s) specified or dials an external call prefix (<EXT_CALL_PREFIX>) before the comma. For instance, "9,xxxxxxx" means the secondary dial tone is played after the user dials 9 until any new digit is entered. "9,3xxxxxx" means only when the digit 3 is hit would the <SIP_2ND_TONE> stop playing.
PX	This represents a pause of a defined time; X is the pause duration in seconds. For instance, "P3" would represent pause duration of 3 seconds.
(0:9)	This is a substitution rule where the first number is replaced by the second. For example, "(4:723)xxxx" would replace "46789" with "723-6789". If the substituted number (the first number) is empty, the second number is added to the number dialed. For example, in "(:1)xxxxxxxxx", the digit 1 is appended to any 10-digit number dialed.
	This separator is used to indicate the start of a new pattern. Can be used to add multiple dialing rules to one pattern edit box.

A sample dial plan appears below.



SIP Server Settings	
Server address:	<input type="text"/>
Server port:	<input type="text" value="5060"/>
Registration Settings	
Server address:	<input type="text"/>
Server port:	<input type="text" value="5060"/>
Expiration:	<input type="text" value="3600"/>
Registration Freq (secs):	<input type="text" value="10"/>
Outbound Proxy Settings	
Server address:	<input type="text"/>
Server port:	<input type="text" value="5060"/>
Backup Outbound Proxy Settings	
Server address:	<input type="text"/>
Server port:	<input type="text" value="5060"/>

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SIP Server Settings

Setting	Description	Range	Default
Server address <code>sip_account.x.primary_sip_server_address</code>	Enter the IP address or fqdn for the SIP server.	IP address or fqdn	blank
Server port <code>sip_account.x.primary_sip_server_port</code>	Enter the port number that the SIP server will use.	0-65535	5060

Registration Settings

Setting	Description	Range	Default
Server address <code>sip_account.x.primary_registration_server_address</code>	Enter the IP address or fqdn for the registrar server.	IP address or fqdn	blank
Server port <code>sip_account.x.primary_registration_server_port</code>	Enter the port number that the registrar server will use.	0-65535	5060
Expiration <code>sip_account.x.primary_registration_expires</code>	Enter the desired registration expiry time in seconds. This is usually 3600 seconds (1 hour).	0-65535	3600
Registration Freq (secs) <code>sip_account.x.registration_retry_time</code>	Enter the desired registration retry time in seconds. If registration using the Primary Outbound Proxy fails, the Registration Freq setting determines the number of seconds before a registration attempt is made using the Backup Outbound Proxy.	1-1800	10

Outbound Proxy Settings

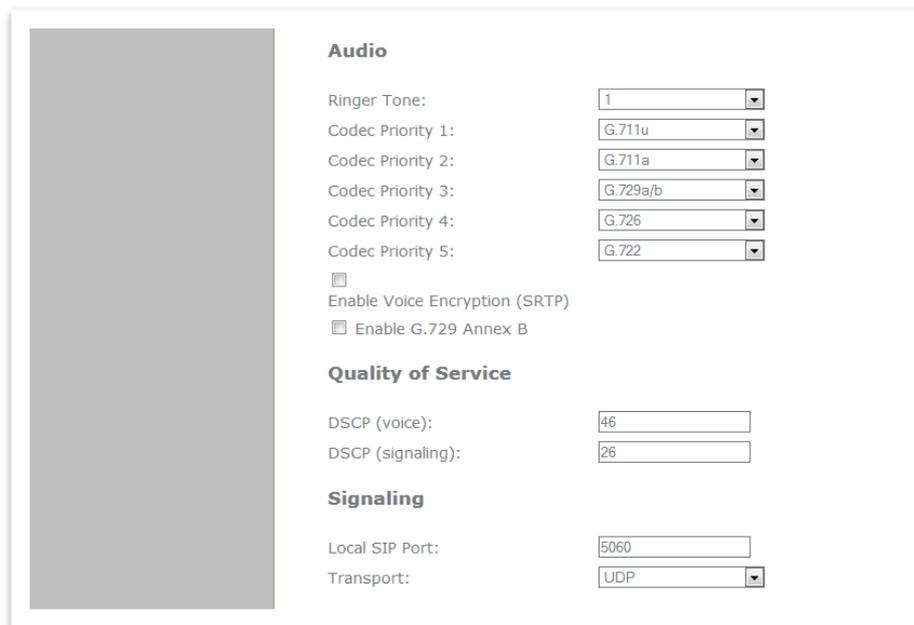
Setting	Description	Range	Default
Server address <code>sip_account.x.primary_outbound_proxy_server_address</code>	Enter the IP address or fqdn for the outbound proxy server.	IP address or fqdn	blank
Server port <code>sip_account.x.primary_outbound_proxy_server_port</code>	Enter the port number that the outbound proxy server will use. This is usually 5060.	0-65535	5060

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Backup Outbound Proxy Settings

Setting	Description	Range	Default
Server address <code>sip_account.x.backup_outbound_proxy_server_address</code>	Enter the IP address or fqdn for the backup outbound proxy server.	IP address or fqdn	blank
Server port <code>sip_account.x.backup_outbound_proxy_server_port</code>	Enter the port number that the backup outbound proxy server will use. This is usually 5060.	0–65535	5060



Audio

Ringer Tone: 1

Codec Priority 1: G.711u

Codec Priority 2: G.711a

Codec Priority 3: G.729a/b

Codec Priority 4: G.726

Codec Priority 5: G.722

Enable Voice Encryption (SRTP)

Enable G.729 Annex B

Quality of Service

DSCP (voice): 46

DSCP (signaling): 26

Signaling

Local SIP Port: 5060

Transport: UDP

Audio Settings

Setting	Description	Range	Default
Ringer Tone <code>user_pref.account.x.ringer</code>	Sets the ringer tone for incoming calls on the account.	Tone 1–10	Tone 1
Codec Priority 1 <code>sip_account.x.codec_priority.1</code>	Select the codec to be used first during a call.	G.711a, G.711u, G.729, G.726, G.722	G.711u
Codec priority 2 <code>sip_account.x.codec_priority.2</code>	Select the codec to be used second during a call in the event near-end and far-end cannot negotiate the first codec.	None, G.711a, G.711u, G.729, G.726, G.722	G.711a

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Codec priority 3 <code>sip_account.x.codec_priority.3</code>	Select the codec to be used third during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.729
Codec priority 4 <code>sip_account.x.codec_priority.4</code>	Select the codec to be used fourth during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.726
Codec priority 5 <code>sip_account.x.codec_priority.5</code>	Select the codec to be used fifth during a call if previous codecs fail.	None, G.711a, G.711u, G.729, G.726, G.722	G.722
Enable voice encryption (SRTP) <code>sip_account.x.voice_encryption_enable</code>	Select to enable secure RTP for voice packets.	0: disable 1: enable	0
Enable G.729 Annex B <code>sip_account.x.g729_annexb_enable</code>	When G.729a/b is enabled, select to enable G.729 Annex B, with voice activity detection (VAD) and bandwidth-conserving silence suppression.	0: disable 1: enable	0

Quality of Service

Setting	Description	Range	Default
DSCP (voice) <code>sip_account.x.dscp</code>	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch. A 6-bit value is supported.	0-63	46
DSCP (signalling) <code>sip_account.x.sip_dscp</code>	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch. A 6-bit value is supported.	0-63	26

Signaling Settings

Setting	Description	Range	Default
Local SIP port <code>sip_account.x.local_sip_port</code>	Enter the local sip port Acc1: Acc2: Acc3:	0-65535	5060 5070 5080

<p>Transport</p>	<p>Select the SIP transport protocol.</p> <p>TCP (Transmission Control Protocol) is the most reliable protocol and includes error checking and delivery validation.</p> <p>UDP (User Datagram Protocol) is generally faster but SIP data may be subject to network congestion.</p> <p>TLS (Transport Layer Security) transport requires security certificates to establish a secure connection between phone and server. You must upload one or more trusted certificates and a server certificate to the phone. See Servicing > Certificates on the "file" Module: Imported File Settings on page 164. Consult your service provider.</p>	<p>tls, tcp, udp</p>	<p>udp</p>
<p><code>sip_account.x.transport_mode</code></p>			

Feature Access Codes

Paging:

Call Park

Parked Call Retrieval:

Voicemail

DND ON:

DND OFF:

Call Forward All ON:

Call Forward All OFF:

Call Forward No Answer ON:

Call Forward No Answer OFF:

Call Forward Busy ON:

Call Forward Busy OFF:

Anonymous Call Reject ON:

Anonymous Call Reject OFF:

Anonymous Call ON

Anonymous Call OFF

Call Waiting ON:

Call Waiting OFF:

Group Call Pickup:

Direct Call Pick Up:

Feature Access Codes Settings

If your IP PBX service provider uses feature access codes, then enter the applicable codes here. You can assign many of these features to programmable keys, which enables end users to press the keys to dial out the codes you enter here.

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Setting	Description	Assignable to PFK?
Paging <code>sip_account.x.access_code_page</code>	Enter the paging access code.	Yes
Call Park <code>sip_account.x.access_code_park_call</code>	Enter the call park access code. Broadsoft provides a feature access code for the park feature. Asterisk/Metaswitch provides a parking lot extension number for the park feature. Enter the parking lot extension number here.	Yes
Parked Call Retrieval <code>sip_account.x.access_code_retrieve_parked_call</code>	Enter the call park retrieval access code. Broadsoft and Asterisk/Metaswitch provide a feature access code for park retrieval.	Yes
Call Park variant <code>sip_account.x.park_variant</code>	Supported values are broadsoft and asterisk. The former dials out a feature code, while the latter launches a blind transfer to the park code uri	Yes
Voicemail <code>sip_account.x.access_code_retrieve_voicemail</code>	Enter the voicemail retrieval access code. The code is dialed when the user selects a line from the Features > Message menu.	Yes
DND ON <code>sip_account.x.access_code_dnd_on</code>	Enter the Do Not Disturb ON access code.	Yes
DND OFF <code>sip_account.x.access_code_dnd_off</code>	Enter the Do Not Disturb OFF access code.	Yes
Call Forward All ON <code>sip_account.x.access_code_cfa_on</code>	Enter the Call Forward All ON access code.	Yes
Call Forward All OFF <code>sip_account.x.access_code_cfa_off</code>	Enter the Call Forward All OFF access code.	Yes
Call Forward No Answer ON <code>sip_account.x.access_code_cfna_on</code>	Enter the Call Forward No Answer ON access code.	Yes

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<p>Call Forward No Answer OFF</p> <p><code>sip_account.x.access_code_cfna_off</code></p>	<p>Enter the Call Forward No Answer OFF access code.</p>	<p>Yes</p>
<p>Call Forward Busy ON</p> <p><code>sip_account.x.access_code_cfb_on</code></p>	<p>Enter the Call Forward Busy ON access code.</p>	<p>Yes</p>
<p>Call Forward Busy OFF</p> <p><code>sip_account.x.access_code_cfb_off</code></p>	<p>Enter the Call Forward Busy OFF access code</p>	<p>Yes</p>
<p>Anonymous Call Reject ON</p> <p><code>sip_account.x.access_code_anonymous_call_block_on</code></p>	<p>Enter the Anonymous Call Reject ON access code.</p>	<p>No</p>
<p>Anonymous Call Reject OFF</p> <p><code>sip_account.x.access_code_anonymous_call_block_off</code></p>	<p>Enter the Anonymous Call Reject OFF access code.</p>	<p>No</p>
<p>Anonymous Call ON</p> <p><code>sip_account.x.access_code_outgoing_call_anonymous_on</code></p>	<p>Enter the Anonymous Call ON access code.</p>	<p>No</p>
<p>Anonymous Call OFF</p> <p><code>sip_account.x.access_code_outgoing_call_anonymous_off</code></p>	<p>Enter the Anonymous Call OFF access code.</p>	<p>No</p>
<p>Call Waiting ON</p> <p><code>sip_account.x.access_code_call_waiting_on</code></p>	<p>Enter the Call Waiting ON access code.</p>	<p>No</p>
<p>Call Waiting OFF</p> <p><code>sip_account.x.access_code_call_waiting_off</code></p>	<p>Enter the Call Waiting OFF access code.</p>	<p>No</p>
<p>Group Call Pick Up</p> <p><code>sip_account.x.access_code_group_call_pickup</code></p>	<p>Enter the Group Call Pickup code. Dialing the code enables the user to answer a call ringing at another deskset that is part of the same group.</p>	<p>Yes</p>
<p>Direct Call Pick Up</p> <p><code>sip_account.x.access_code_direct_call_pickup</code></p>	<p>Enter the Group Call Pickup code. Dialing the code enables the user to answer a call ringing at another deskset.</p>	<p>Yes</p>

Busy Lamp Field

List URI:

Remote Pickup Code:

BLF subscription expiration:

Voicemail Settings

Enable MWI subscription

Mailbox ID:

Expiration (secs):

Ignore Unsolicited MWI:

Enable Stutter Dial Tone

NAT Traversal

Enable STUN

Server address:

Port:

Enable UDP Keep-Alive

Keep-alive interval (secs):

Music On Hold

Enable Local MoH

Network Conference

Enable Network Conference

Conference URI:

Session Timer

Enable Session Timer

Minimum value (secs):

Maximum value (secs):

Busy Lamp Field Settings

Setting	Description	Range	Default
List URI	Used for list-based BLF Enter the BLF list URI, as supplied by or set up with your service provider. For example, <i>blf-list1@sipservice.com</i> . This list contains a list of extensions that are eligible for BLF monitoring. You can assign keys for BLF monitoring on the Programmable Keys page. See page 92.	Sip URI	blank
<code>sip_account.x.blf_list_uri</code>	If left blank, individual uri-based BLF subscription will be assumed		

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BLF Subscription Expiration	Enter desired BLF subscription duration in seconds. It is normally 3600 sec	15-65535	3600
<code>sip_account.x.blf_subscription_expires</code>			
Remote Pickup Code	Enter the remote pickup code for the BLF list, as supplied by your service provider.	string	blank
<code>sip_account.x.blf_remote_pickup_code</code>			

Voicemail Settings

Setting	Description	Range	Default
Enable MWI Subscription	When enabled, the account subscribes to the "message summary" event package. The account may use the User ID or the service provider's "Mailbox ID".	0: disable 1: enable	0
<code>sip_account.x.mwi_enable</code>			
MWI Subscription Expiration	Enter desired "message summary" subscription duration in seconds. It is normally 3600 sec	15-65535	3600
<code>sip_account.x.mwi_subscription_expires</code>			
Mailbox ID	Enter the uri the phone should use to subscribe to "message summary" notifications. If left blank, the User ID is used for the MWI subscription.	SIP URI	blank
<code>sip_account.x.mwi_uri</code>			
Ignore unsolicited MWI	When enabled, only notifications pertaining to the active "message summary" subscription will be considered as valid to compute MWI status. Disable this setting if: <ul style="list-style-type: none"> MWI service does not involve a subscription to a voicemail server. That is, the server supports unsolicited MWI notifications. you want the Message Waiting LED to indicate new messages 	0: disable 1: enable	0
<code>sip_account.x.mwi_ignore_unsolicited</code>			

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	when the deskset receives unsolicited MWI notifications.		
Enable Stutter Dial Tone <code>sip_account.x.stutter_dial_tone_enable</code>	Enables or disables the stutter dial tone for that line (indicating message(s) waiting) when the phone goes off hook.	0: disable 1: enable	1

NAT Traversal Settings

Setting	Description	Range	Default
Enable STUN <code>sip_account.x.nat_traversal_stun_enable</code>	Enables or disables STUN mechanism to allow sip communications in NATted environments.	0: disable 1: enable	0
Server address <code>sip_account.x.nat_traversal_stun_server_address</code>	Enter the stun server address or fqdn	IP address or fqdn	blank
Server port <code>sip_account.x.nat_traversal_stun_server_port</code>	Enter the port the STUN server is using. Normally it will be 3478	0-65535	3478
Enable UDP Keep-Alive <code>sip_account.x.nat_traversal_udp_keep_alive_enable</code>	Enables or disables UDP keepalive on this account—this mechanisms periodically sends a UDP packet on the sip port to keep this port open on the NAT device.	0: disable 1: enable	0
Keep-alive interval (secs) <code>sip_account.x.nat_traversal_udp_keep_alive_interval</code>	Enter the time in seconds between UDP keepalive messages.	0-65535	30

Music On Hold Settings

Setting	Description	Range	Default
Enable Local MoH <code>sip_account.x.music_on_hold_enable</code>	Enables or disables a local tone played when the phone is put on hold by the remote party. Please disable if you wish to use server provided Music on hold instead. The interval between tones can be controlled with "Call Hold Reminder tone", in User Preferences section	0: disable 1: enable	1

Network Conference Settings

Setting	Description	Range	Default
Enable Network Conference <code>sip_account.x.network_conference_enable</code>	Enables or disables conferences being controlled and mixed by a conference server, also called Network Bridge. When disabled, the phone will create the conference locally, without the need for a conference server.	0: disable 1: enable	0
Conference URI <code>sip_account.x.network_bridge_uri</code>	Enter the URI to direct the phone to the network bridge for each line.	SIP URI	blank

Session Timer

Setting	Description	Range	Default
Enable Session Timer <code>sip_account.x.sip_session_timer_enable</code>	Enables or disables sip "timer" mechanism, which allows session monitoring	0: disable 1: enable	0
Minimum value (secs) <code>sip_account.x.sip_session_timer_min</code>	Enter the value of the "Min S-E" header, i.e., the minimum interval the phone is willing to use for monitoring the session	90-65535	90
Maximum value (secs) <code>sip_account.x.sip_session_timer_max</code>	Enter the maximum interval the phone is willing to use for monitoring the session.	90-65535	1800

Call Settings

You can configure call settings for each line. Call Settings include Do Not Disturb and Call Forward settings.

When you have finished changing settings on this page, click **Save** to save them.

Call settings are also available as parameters in the configuration file. See "call_settings" Module: Call Settings on page 161.

General Call Settings

Setting	Description	Range	Default
Active block anonymous <code>call_settings.account.x.block_anonymous_enable</code>	Enables or disables rejecting calls indicated as "Anonymous."	0: disable 1: enable	0
Enable outgoing anonymous call <code>call_settings.account.x.outgoing_anonymous_enable</code>	When enabled, the phone will ask the server to hide its identity in outgoing calls. The caller name and number are indicated as "Anonymous."	0: disable 1: enable	0

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Do Not Disturb Settings

Setting	Description	Range	Default
Enable Do Not Disturb <code>call_settings.account.x.dnd_enable</code>	Turns Do Not Disturb on or off.	0: disable 1: enable	0
Incoming Calls <code>call_settings.account.x.dnd_incoming_calls</code>	Selects whether the phone displays incoming call information while Do Not Disturb is on. When set to Show, the phone displays incoming call information while Do Not Disturb is on. When set to Reject, the phone rejects incoming calls without alerting the user. The phone will not ring in either mode.	show, reject	reject

Call Forward Settings

Setting	Description	Range	Default
Enable Call Forward Always <code>call_settings.account.x.call_fwd_always_enable</code>	Enables or disables call forwarding for all calls on that line. Select to enable.	0: disable 1: enable	0
Target Number <code>call_settings.account.x.call_fwd_always_target</code>	Enter a number to which all calls will be forwarded.	string	blank
Enable Call Forward Busy <code>call_settings.account.x.call_fwd_busy_enable</code>	Enables or disables forwarding incoming calls to the target number if the number of active calls has reached the maximum number of calls configured for account x.	0: disable 1: enable	0
Target Number <code>call_settings.account.x.call_fwd_busy_target</code>	Enter a number to which calls will be forwarded when the line is busy.	string	blank
Enable Call Forward No Answer <code>call_settings.account.x.cfna_enable</code>	Enables or disables call forwarding for unanswered calls on that line.	0: disable 1: enable	0

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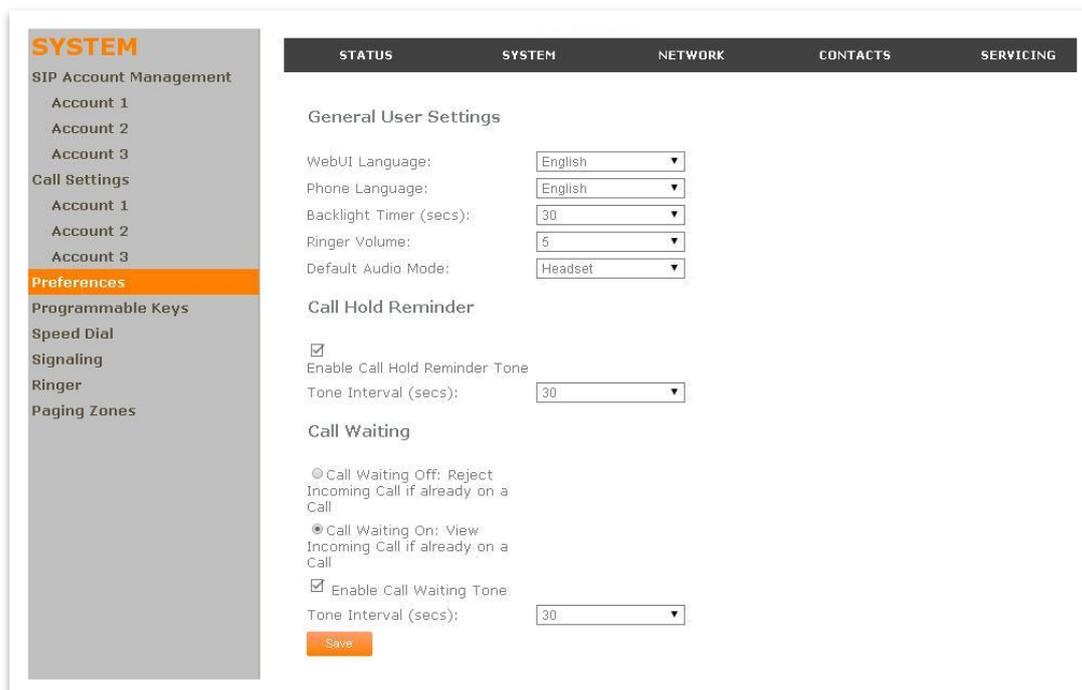
Target Number <code>call_settings.account.x.cfna_target</code>	Enter a number to which unanswered calls will be forwarded.	string	blank
Delay <code>call_settings.account.x.cfna_delay</code>	Select the number of rings before unanswered calls are forwarded.	1-10 (rings)	6
Enable Missed calls alert <code>call_settings.missed_call_alert_enable</code>	Enables or disables missed call indication on the phone screen	0: disable 1: enable	1

User Preferences

On the User Preferences menu, you can configure some basic settings for the phone and set how the phone responds to calls. The User Preferences page is also available to phone users when they log on to the WebUI.

After changing any settings on this page, click **Save** to save them.

The user preference settings are also available as parameters in the configuration file. See "user_pref" Module: User Preference Settings on page 159.



General User Settings

Setting	Description	Range	Default
WebUI Language	Sets the language that appears on the WebUI.	en: English fr: French es: Spanish de: German it: Italian pt: Portuguese nl: Dutch ru: Russian el: Greek tr: Turkish	en
user_pref.web_language			

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Call Waiting Tone Interval (secs.) <code>user_pref.call_waiting.tone_interval</code>	Sets the interval in seconds for the call waiting reminder tone.	10-60 (seconds)	30
Call Waiting on/off <code>user_pref.call_waiting.mode</code>	<p>Accepts or rejects incoming call notification screen while the user is already on a call.</p> <p>Only one of the two radio buttons can be selected.</p> <p>If set to "enable", the waiting call is presented to the user</p> <p>If set to "reject", the phone will send an error response to the server.</p> <p>Not applicable to IP2015, where handsets handle this feature.</p>	enable, reject	enable

Other Settings

All settings in this section refer to desk top phones only, not to IP2015 IP DECT system.

Setting	Description	Range	Default
LCD Contrast Level <code>user_pref.lcd_contrast</code>	Sets the contrast for the LCD display.	1-7	4
Backlight level (non idle) <code>user_pref.backlight</code>	Enables or disables the backlight for non idle mode, i.e, during user operation.	off, low, middle, high	high
Backlight level (idle) <code>user_pref.idle_backlight</code>	Enables or disables the backlight in idle state.	off, low, middle, high	off
Live dial to idle timeout (secs.) <code>user_pref.absent_timeout</code>	Sets the timeout (in seconds) after which live dial interface will return to idle if there are no more dialled digits.	10-60 (seconds)	30
Idle to logo timeout <code>user_pref.idle_to_logo_timeout</code>	Sets the timeout to switch from idle screen to the customized (or standard) logo display	0-300 (seconds) 0 means no logo will be displayed	30

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Logo to idle timeout user_pref.logo_to_idle_timeout	Sets the timeout to switch from logo to idle screen	1-300 (seconds)	60
user_pref.text_input_option	Specify the order and available language input options when in text input mode	number uc_western: upper case lc_western: lower case uc_ru: Russian upper case lc_ru: Russian lower case uc_el: Greek upper case lc_el: Greek lower case	number,lc_western,uc_western
Handsfree volume user_pref.speaker_volume	Sets speaker volume for handsfree calls.	1-10	5
Headset volume user_pref.headset_volume	Sets headset volume.	1-10	5
Corded Handset volume user_pref.handset_volume	Sets handset volume.	1-10	5
Enable Key beep user_pref.key_beep_enable	Enables or disables the beep played when a key is pressed.	0: disable 1: enable	1

Programmable Keys

Temporis IP100, IP150, IP300 and IP700G models are equipped with programmable keys with a dual-color backlight (orange and green). Keys are numbered top to bottom, and then left to right when applicable.

In all models listed above there is a mechanism to access a second virtual key on each physical key. For IP300 and IP700G this is done via "Access to second function"  key, whereas in IP100 and IP150 F5/F15 can be assigned for this purpose if desired.

The number of programmable function keys and toggle mechanism for each model is shown in the table below.

Model	Number of PFKs	Number of keys with backlight	Access to second function	Number of virtual keys
Temporis IP100	10	5	F5/F15 (config)	18
Temporis IP150	10	5	F5/F15 (config)	18

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Temporis IP300	12	12	"Lower" key	24
Temporis IP700G	16	16	"Lower" key	32

You can assign functions to the programmable keys. You can select one option for each physical or virtual key. Keys can have identical functions. For example, you can assign several "Line" keys for Line 1 to enable users to manage multiple calls on Line 1. You can also assign multiple Quick Dial keys.

Depending on the feature, you may need to select also the line (account) for which it is applicable and some value.

The programmable key settings are also available:

-from the phone menu (except for Temporis IP100); see for example Programmable Keys on page 13 or Customizing your phone with User Settings menu on page 51.

-as parameters in the configuration file. See "pfk" Module: Programmable Feature Key Settings

Key	Type	Value	Account
Key 1	Line		Account 1
Key 2	Line		Account 1
Key 3	Line		Account 2
Key 4	Multicast Page	1	Account 1
Key 5	Intercom		Account 1
Key 6	N/A		Account 2
Key 7	Quick Dial		Account 1
Key 8	Quick Dial		Account 1
Key 9	Quick Dial		Account 1
Key 10	Quick Dial		Account 1
Key 11	Direct Call Pickup		Account 1
Key 12	Group Call Pickup		Account 1
Key 13	Quick Dial		Account 1
Key 14	Quick Dial		Account 1
Key 15	Quick Dial		Account 1
Key 16	Quick Dial		Account 1

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Type	Description	Parameters
Line	Configures the key for accessing a line (or SIP account). Users can make or answer calls by pressing these keys. The key LED will change according to call activity. After selecting Line in the Type column, select the Line number in the Line column.	<code>pfk.x.feature = line</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
Directory	Configures the key to access the Directory menu. Users can then press the key to view the Directory menu.	<code>pfk.x.feature = dir</code> (x: 1-24, function key number)
Call History	Configures the key to access the Call History list. Users can then press the key to view the Call History list.	<code>pfk.x.feature = call log</code> (x: 1-24, function key number)
Redial	Configures the key to access the Redial list. Users can then press the key to view the Redial list.	<code>pfk.x.feature = redial</code> (x: 1-24, function key number)
Messages	Configures the key to access the Message menu. Users can then press the key to view the Message menu.	<code>pfk.x.feature = messages</code> (x: 1-24, function key number)
Do Not Disturb	Configures the key to turn Do Not Disturb on or off. Select the line for which you want to set the feature. The key is lit orange when DND is on.	<code>pfk.x.feature = dnd</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
Call Forward All	Configures the key to turn Call Forward All on or off. In the Line column, select the line for which Call Forward All will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	<code>pfk.x.feature = cfwd all</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
Call Forward Busy	Configures the key to turn Call Forward Busy on or off. In the Line column, select the line for which Call Forward Busy will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	<code>pfk.x.feature = cfwd busy</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
Call Forward No Answer	Configures the key to turn Call Forward No Answer on or off. In the Line column, select the line for which Call Forward No Answer will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.	<code>pfk.x.feature = cfwd no answer</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)

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<p>Park Call</p>	<p>Enables the user to park a call. Pressing the key dials the Call Park feature access code (FAC) configured on the Account Settings page.</p> <p>In the Line column, select the line (sip account) on which the feature access code will be dialed out.</p> <p>For example, choose Line 1 if you wish to use the Call Park FAC that you entered for account 1.</p>	<p>pfk.x.feature = park call pfk.x.account = 1,2 or 3 (x: 1-24, function key number)</p>
<p>Retrieve Park Call</p>	<p>Enables the user to retrieve a parked call. Pressing the key dials the Parked Call Retrieval feature access code (FAC) configured on the Account Settings page.</p> <p>In the Line column, select the line on which the feature access code will be dialed out.</p> <p>For example, choose Line 1 if you wish to use the Parked Call Retrieval FAC that you entered for account 1.</p>	<p>pfk.x.feature = retrieve parked call pfk.x.account = 1,2 or 3 (x: 1-24, function key number)</p>
<p>Quick Dial</p>	<p>Configures the key to dial a number on the selected line. After selecting Quick Dial, enter the number to be dialed in the Value column. In the Line column, select the line on which the number will be dialed out.</p>	<p>pfk.x.feature = quick dial pfk.x.account = 1,2 or 3 pfk.x.quick_dial = (x: 1-24 , function key number)</p>
<p>BLF (Busy Lamp Field)</p>	<p>Configures the key to monitor another extension.</p> <p>In the Value column, enter the URI of the extension you want to monitor with this key. For example, <i>6045552001@sipservice.com</i>.</p> <p>If you are using list based BLF, the URI must be from the BLF list you set up with your service provider and entered under "Busy Lamp Field Settings" under SIP Account Management</p>	<p>pfk.x.feature = busy lamp field pfk.x.account = 1,2 or 3 pfk.x.blf= (x: 1-24, function key number)</p>
<p>ACD (Automatic Call Distribution)</p>	<p>Configures the key to display the ACD State menu on the phone LCD. In the Account column, select the applicable account. The key LED will indicate the current ACD state. Shared Line accounts support ACD, but note that subscribers to a shared line will share a common ACD state.</p>	<p>pfk.x.feature = acd pfk.x.account = 1,2 or 3 (x: 1-24, function key number)</p>
<p>Intercom/Page</p>	<p>Configures the key to call one or a group of phones. Pressing the key dials the Paging feature access code. You must enter the feature access code for Paging on the SIP Account Management page.</p> <p>You can configure pages to be automatically answered. See "Page Auto Answer" under SIP Account Management</p>	<p>pfk.x.feature = page pfk.x.account = 1,2 or 3 (x: 1-24, function key number)</p>

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Multicast Page	Configures the key to make outgoing multicast pages. In the Value column, enter a valid Paging Zone ID (ranging from 1 to 10). Multicast paging differs from standard paging in that it is handled locally by the Deskset and does not require a subscription through the hosted server. To use multicast paging, you must first set up paging zones on the WebUI. See Paging Zone on page 101.	<code>pfk.x.feature = multicast page</code> <code>pfk.x.multicast_zone = 1 to 10</code> (x: 1-24, function key number)
In Call DTMF	Configures the key to dial a string of numbers while the end user is on a call. For example, pressing the key might dial a conference access code. After selecting In Call DTMF, enter the number to be dialed in the Value column.	<code>pfk.x.feature = in call dtmf</code> <code>pfk.x.incall_dtmf =</code> (x: 1-24, function key number)
Call return	Configures the key to dial the number of the last missed call.	<code>pfk.x.feature = callback</code> (x: 1-24, function key number)
Group Call Pickup	Enables the user to answer a call ringing at another extension. The call can be ringing at any extension in the phone's call pickup group. Pressing the key dials the Group Call Pickup feature access code (FAC) configured on the Account Settings page.	<code>pfk.x.feature = group call pickup</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
Direct Call Pickup	Enables the user to answer a call ringing at a specific deskset. Pressing the key dials the Direct Call Pickup feature access code (FAC) configured on the Account Settings page. Depending on the server requirements, the user may then need to enter the number of the ringing extension.	<code>pfk.x.feature = direct call pickup</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)
N/A	The programmable key has no function assigned	<code>pfk.x.feature = unassigned</code> <code>pfk.x.account = 1,2 or 3</code> (x: 1-24, function key number)

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Memory Keys: Speed Dial

Applicable to **Temporis IP100, IP150, IP300, IP700G** and **Conference IP1850**.

On the Speed Dial page, you can enter up to 10 speed dial numbers. For each speed dial number you enter, you must assign the line on which the number will be dialed out.

To dial a speed dial number, press and hold the dial pad key that matches the speed dial entry number. When for entry 10, press 0).

Note: This menu duplicates the speed dial menu on the desktop phones (**Menu > 1.Features > 5.Speed dial**), i.e. entries that are entered and saved on the WebUI replace entries that were entered using the phone, and viceversa.

Note: You can also assign programmable function keys to be quick dial keys.

Key	Name	Value	Account
Key 1	<input type="text"/>	<input type="text"/>	Account 1
Key 2	<input type="text"/>	<input type="text"/>	Account 1
Key 3	<input type="text"/>	<input type="text"/>	Account 1
Key 4	<input type="text"/>	<input type="text"/>	Account 1
Key 5	<input type="text"/>	<input type="text"/>	Account 1
Key 6	<input type="text"/>	<input type="text"/>	Account 1
Key 7	<input type="text"/>	<input type="text"/>	Account 1
Key 8	<input type="text"/>	<input type="text"/>	Account 1
Key 9	<input type="text"/>	<input type="text"/>	Account 1
Key 0	<input type="text"/>	<input type="text"/>	Account 1

To enter speed dial numbers:

1. In the **Name** column, enter the name associated with this speed-dial entry.
2. In the **Value** column, enter a phone number for the desired key.
3. In the **Line** column, select the line that this speed dial number will use.
4. Click **Save**.

Speed Dial Keys

Setting	Description	Range	Default
Name Value <code>speed_dial.x.name</code> (x: 0-9)	A name associated to this memory key.	string	blank
Number Value <code>speed_dial.x.number</code> (x: 0-9)	The phone number that the memory key dials when pressed and held.	SIP URI	blank

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Line	The SIP account (line) the phone will use to dial the number.	1: Acc 1, 2:Acc 2, etc	1
speed_dial.x.account (x: 0-9)			

Signaling Settings

Voice Settings

Setting	Description	Range	Default
Min Local RTP port <code>network.rtp.port_start</code>	Real-time Transport Protocol (RTP) Ports are entered as a range. This range is usually specified by your service provider. Enter the lower limit of the RTP port range.	0-65535	18000
Max Local RTP port <code>network.rtp.port_end</code>	Enter the upper limit of the RTP port range.	0-65535	19000

NAT Traversal

Setting	Description	Range	Default
Enable IP Masquerading <code>network.nat.masquerading_enable</code>	Select to enable NAT traversal via IP masquerading.	1: Enabled 0: Disabled	0
Public IP address <code>network.nat.public_ip_addr</code>	Enter the external IP address of your router. Your router needs a static	IP address	blank

	IP address for IP masquerading to work.		
Public SIP port <code>network.nat.public_sip_port</code>	Enter the router port number being used for SIP.	0-65535	5060
Min Public RTP port <code>network.nat.public_rtp_port_start</code>	Real-time Transport Protocol (RTP) Ports are entered as a range. This range is usually specified by your service provider. Enter the lower limit of the RTP port range.	0-65535	18000
Max Public RTP port <code>network.nat.public_rtp_port_end</code>	Enter the upper limit of the RTP port range.	0-65535	19000

Ringer Settings

Applicable to **Temporis IP100, IP150, IP300, IP700G** and **Conference IP1850**.

The Ringer Settings enable you to provide a distinctive ringing feature via the custom Alert-Info header associated with an incoming call. This setting overrides the ringer tone you have set for the account. For example, you can set a unique ringer tone to alert the deskset user upon receiving any incoming calls tagged as "important" or "External" in the Alert-Info header.

The SIP Invite message contains an Alert-Info header that the phone checks in order to determine which ringer tone to play. The Alert-Info header format is as follows:

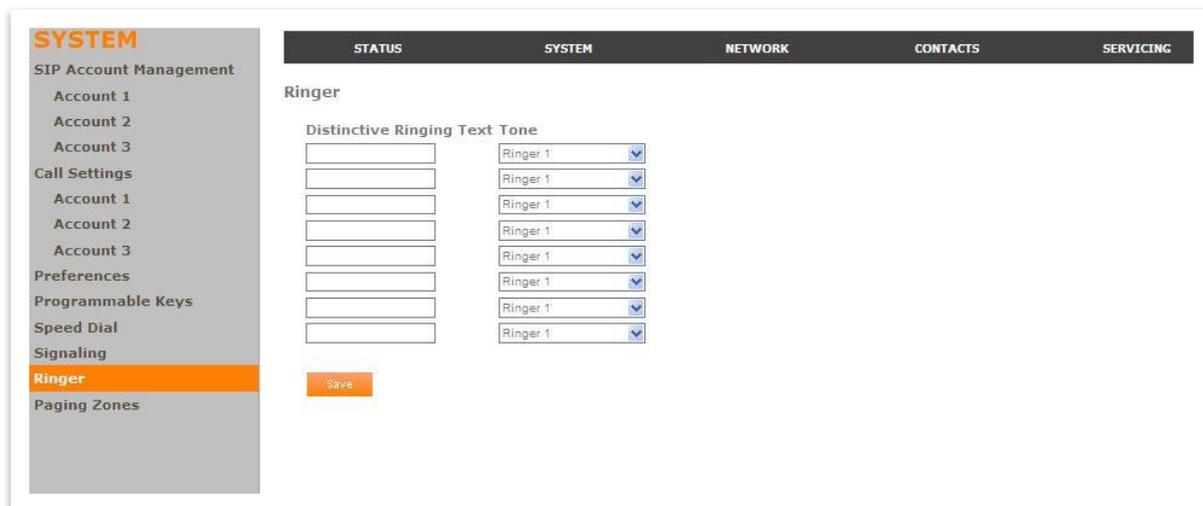
```
Alert-Info: info=info_text
```

If the header contains the "info" parameter, the phone attempts to match it to the Internal Ringer Text. If there is a match, the Internal Ringer Tone will play. If there is no match, the default tone for the account will play.

The matching is done on a "first match" basis. In the case of duplicate text strings, the ringer tone associated with the first matched entry in the Internal Ringer Text list will play.

The server-side configuration must be done with your service provider. This is where the SIP Invite text ("Internal Ringer Text") will be derived.

The ringer settings are also available as parameters in the configuration file. See "ringersetting" Module: distinctive ringing settings on page 166.



Setting	Description	Range	Default
Distinctive Ringing Text ringersetting.x.ringer_text (x= 1-8)	Enter the text that will match the "info" parameter and play the ringer tone. The matching of the "info" parameter and Internal Ringer Text is case sensitive. The maximum length of the Internal Ringer Text is 40 characters.	String, up to 40 characters	blank
Tone ringersetting.x.ringer_type (x= 1-8)	Select the desired ringer from the list.	Ringer 1 to - Ringer 10 (1-10)	1

Paging Zone

Applicable to **Temporis IP100, IP150, IP300, IP700G** and **Conference IP1850**.

On the Paging Zone page, you can enter the multicast IP addresses that the phone will monitor. When a page is sent out using this multicast IP address, all phones that are programmed to monitor that IP address will receive the paging RTP stream and play the page on their speakerphone. You can also enable the phone to send out multicast pages using a particular multicast IP address.

You must first set up paging groups (each group consisting of a multicast paging IP address and assigned User IDs) on your SIP PBX. The desk set can monitor a maximum of 10 multicast IP addresses.

ID	Name	Multicast IP	Multicast Port	Priority	Enable Incoming Page
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
9	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>
10	<input type="text"/>	<input type="text"/>	<input type="text"/>	5	<input type="checkbox"/>

Setting	Description	Range	Default
Name	Enter the name of the paging zone. Names can be a maximum of 15 characters. The paging zone name is displayed on the LCD during incoming and outgoing multicast pages.	String, up to 15 chars	blank
<code>page_zone.x.name</code> (x= page zone ID number, 1 to 10)			
Multicast IP	Enter the paging zone multicast IP address. The IP address range for multicast addresses is 224.0.0.0–239.255.255.255.	IPv4 address, 224.0.0.0 to 239.255.255.255	blank
<code>page_zone.x.multicast_address</code> (x= page zone ID number, 1 to 10)			

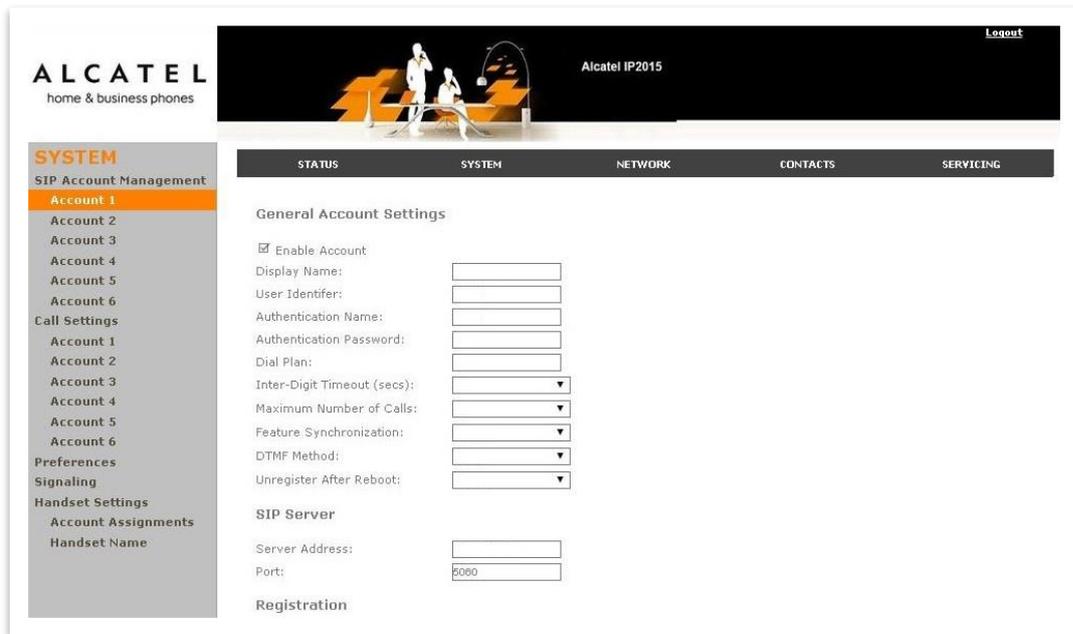
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Multicast Port <code>page_zone.x.multicast_port</code> (x= page zone ID number, 1 to 10)	Enter the multicast port used by the multicast IP address. The valid port range is 1 to 65535.	0-65535	blank
Priority <code>page_zone.x.priority</code> (x= page zone ID number, 1 to 10)	Select the paging zone priority from 1 to 10. Zones with a priority higher than another zone can interrupt the lower-priority zone's active page.	1-10	5
Call priority threshold <code>page_zone.call_priority_threshold</code>	This priority setting also ranges from 1 to 10. If the paging zone priority is higher or equal to the call priority, then a multicast page can interrupt an active, dialing, or incoming call.	1-10	2
Enable incoming page <code>page_zone.x.accept_incoming_page</code> (x= page zone ID number, 1 to 10)	Select to enable the deskset to receive incoming pages for that paging zone. If the "Enable Incoming Page" checkbox is not selected, the phone will not listen for the multicast, but will still be able to broadcast an outgoing page.	0: disabled 1: enabled	1

Handset settings

This subsection of **SYSTEM** section is available for **IP2015** IP DECT only. It will allow you to configure which handsets are associated to which account(s), what will be the default dial out account for each handset, as well as the name a particular handset will display on its idle screen.

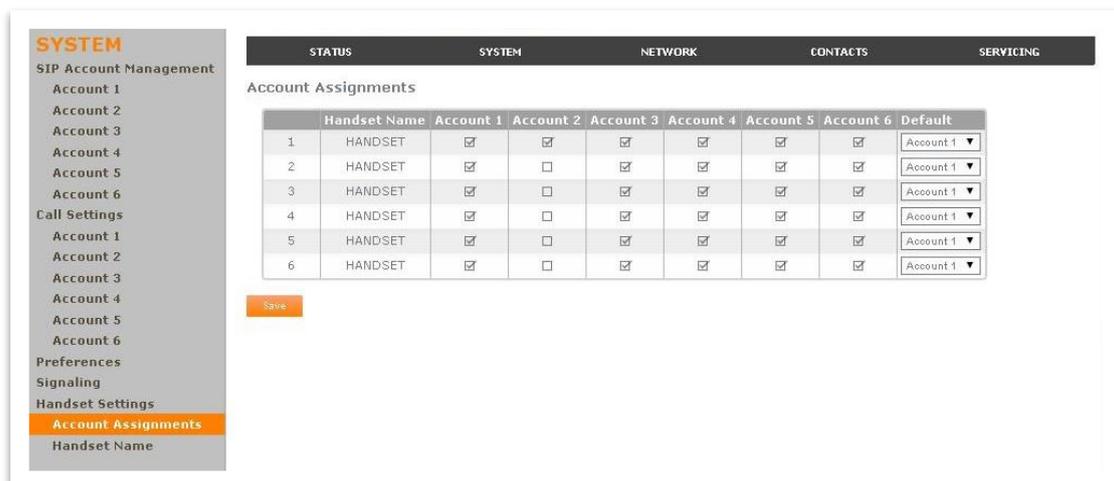


Account assignment

IP2015 supports up to six handsets and six sip accounts. Admins can decide which account or accounts are associated to a handset in particular, i.e.:

- whether an incoming call addressed to one account will be sent by the base to a handset or not, and
- whether a handset will be able to select that account to dial out

To do this, simply tick or untick the boxes on the handset vs accounts matrix shown on the WUI.



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Each line corresponds to one handset; you can identify each handset by its name and number. Handset number is shown at the top right corner on the idle screen. And each column corresponds to one account.

In the example above, only Handset1 can use Account2 to send and receive calls. The rest of accounts can be used by all handsets.

On top of that, you can select one **default account** per handset. This account will be used to dial out except if you manually select another one. Other exceptions are those cases where a dial out account is predefined: call log, speed dial and Contacts.

Again referring to the example above, all handsets will use Account1 to dial out by default.

Handset account assignment settings are also available as parameters in the configuration file. See "hs_settings" Module: Handset management Settings on page 169

Setting	Description	Range	Default
Assigned accounts hs_settings.x.assigned_account (x is handset number, from 1 to 6)	Lists accounts assigned to a handset.	Comma separated account index list	1,2,3,4,5,6
Default account hs_settings.x.default_account (x is handset number, from 1 to 6)	Account which will be used to dial out, except if there is a pre-assignment or user manually selects another one.	1 to 6	1

Handset name

Each handset can be assigned a name to be displayed on the idle screen.

The screenshot shows a web-based configuration interface. On the left is a sidebar menu with the following items: SYSTEM, SIP Account Management (Account 1-6), Call Settings (Account 1-6), Preferences, Signaling, Handset Settings, Account Assignments, and Handset Name (highlighted in orange). The main content area has a top navigation bar with tabs: STATUS, SYSTEM, NETWORK, CONTACTS, and SERVICING. Below the tabs, the title is "Handset Name". There are six rows, each labeled "Handset 1:" through "Handset 6:". The first row has a text input field containing "WILLIAM". The other five rows have text input fields containing "HANDSET". Below the input fields is an orange "Save" button.

This configuration can be done as well using the handset Phone rename submenu. See User Settings on page 62.

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Handset name settings are also available as parameters in the configuration file See "hs_settings" Module: Handset management Settings on page 169

Setting	Description	Range	Default
Handset name <code>hs_settings.x.handset_name</code> (x is handset number, from 1 to 6)	Name the handset will display on its idle screen	String (12 chars max)	HANDSET

Network

You can set up the phone for your network configuration on the Network settings page. Your service provider may require you to configure your network to be compatible with its service, and the phone settings must match the network settings.

All these settings are available through configuration files. See “network” Module: Network Settings on page 153.

Basic Network Settings

The screenshot shows the 'NETWORK' settings page with a sidebar on the left containing 'Basic' (selected) and 'Advanced'. The main content area has a navigation bar with 'STATUS', 'SYSTEM', 'NETWORK', 'CONTACTS', and 'SERVICING'. Below this is the 'Basic Network Settings' section. It features two radio buttons: 'DHCP' (selected) and 'Static IP'. To the right of these are five input fields labeled 'IP Address:', 'Subnet Mask:', 'Gateway:', 'Primary DNS:', and 'Secondary DNS:'. An orange 'Save' button is located at the bottom left of the settings area.

Note: If you disable DHCP on this page, you must configure static IP settings for the phone. You must be familiar with TCP/IP principles and protocols to configure static IP settings.

Basic Network Settings

Setting	Description	Range	Default
Enable DHCP <code>network.ip.dhcp_enable</code>	DHCP is selected (enabled) by default, which means the deskset will get its IP address from the network. When DHCP is disabled, you must enter a static IP address for the deskset.	1: Enabled, 0: Disabled	1
IP Address <code>network.ip.static_ip_addr</code>	If DHCP is disabled, enter a static IP address for the deskset.	IPv4	blank
Subnet Mask <code>network.ip.subnet_mask</code>	Enter the subnet mask.	IPv4	blank

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Gateway Address <small>network.ip.gateway_addr</small>	Enter the static IP address of the default gateway (in this case, your router).	IPv4	blank
Primary DNS Server <small>network.ip.dns1</small>	If DHCP is disabled, enter IP addresses for the primary and secondary DNS servers.	IPv4	blank
Secondary DNS Server <small>network.ip.dns2</small>			

Advanced Network Settings

The screenshot shows the 'NETWORK' configuration page with the 'Advanced' tab selected. The 'VLAN Settings' section includes:

- Enable WAN VLAN
 - VLAN ID:
 - Priority:
- Enable PC Port VLAN
 - VLAN ID:
 - Priority:

The 'LLDP-MED' section includes:

- Enable LLDP-MED
 - Packet interval (secs):

The '802.1x' section includes:

- Enable 802.1x
 - Identity:
 - MD5 Password:

A 'Save' button is located at the bottom of the configuration area.

Note: PC port related items are not applicable to Temporis IP100, Conference IP1850 and IP2015 and will not be displayed on their WUI.

VLAN Settings

You can organize your network and optimize VoIP performance by creating a virtual LAN for phones and related devices.

Setting	Description	Range	Default
Enable WAN VLAN <small>network.vlan.wan.enable</small>	Enable if the phone is part of a VLAN on your network. Select to enable.	0: Disabled 1: Enabled	0

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VLAN ID <code>network.vlan.wan.id</code>	Enter the VLAN ID (vlan 5, for example).	0–4095	0
Priority <code>network.vlan.wan.priority</code>	Select the VLAN priority that matches the Quality of Service (QoS) settings that you have set for that VLAN ID. Outbound packets will be marked and sent according to their priority. 7 is the highest priority. Note: Configuring the Quality of Service (QoS) settings for your router or switch is a subject outside the scope of this document.	0–7	0
Enable PC Port VLAN <code>network.vlan.pc.enable</code>	Enable if the PC connected to your phone's PC port is part of a VLAN on your network. Select to enable. Not applicable to IP100, IP2015 or IP1850	0: Disabled 1: Enabled	0
VLAN ID <code>network.vlan.pc.id</code>	Enter the PC Port VLAN ID (vlan 5, for example). Not applicable to IP100, IP2015 or IP1850	0–4095	0
Priority <code>network.vlan.pc.priority</code>	Select the VLAN priority that matches the Quality of Service (QoS) settings that you have set for that VLAN ID. Outbound packets will be marked and sent according to their priority. 7 is the highest priority. Not applicable to IP100, IP2015 or IP1850 Note: Configuring the QoS settings for your router or switch is a subject outside the scope of this document.	0–7	0

LLDP-MED

Setting	Description	Range	Default
Enable LLDP-MED <code>network.lldp_med.enable</code>	Enables or disables LLDP-MED on the phone. Select (enable) if your switch is LLDP-MED capable. Link Layer Discovery Protocol for Media Endpoint Devices (LLDP-MED) is a standards-based discovery protocol supported on some network switches. Amongst other functions, it enables network devices (such as switches) and endpoint devices (the deskset) to manage PoE, and assists administrators in tracking devices on the network.	0: Disabled 1: Enabled	1
Packet Interval (secs) <code>network.lldp_med.interval</code>	Enter here the interval in seconds between LLDP packets.	1–30	30

802.1x

Setting	Description	Range	Default
Enable 802.1x <code>network.eapol.enable</code>	Enables the 802.1X authentication protocol. This provides the phone with secure access to the network when an 802.1X compliant authentication server is used. Consult your service provider.	0: Disabled 1: Enabled	0
Identity <code>network.eapol.identity</code>	Enter the 802.1x EAPOL identity.	string	blank
MD5 Password <code>network.eapol.password</code>	MD5 password.	string	blank

Contacts

Local Directory

On the Local Directory page, you can manage your local directory entries. You can sort, edit, dial, delete, and add contact information for up to 200 entries (100 entries for IP100 and IP150). In order to back up your contacts or import another local directory file, the page also allows you to export and import your phone's local directory.

The Local Directory lists entries on up to 10 pages, with 20 entries per page. Click Next, First, Last, or a page number to view the desired page of entries.

You can click on an entry to dial out this number. This feature can be enabled/disabled using configuration files, and is enabled by default. See next subchapter, or go to "provisioning" Module: Provisioning Settings on page 155.

STATUS
SYSTEM
NETWORK
CONTACTS
SERVICING

CONTACTS

Local Directory

Blacklist

LDAP

Broadsoft

Call History

Local Directory

Select All Sort By Last Name

Total: 21	First Name	Last Name	Ringer Tone	Home	Work	Mobile	Line	
<input type="checkbox"/>	Angela	Martin	0	7325550118			1	Edit
<input type="checkbox"/>	Bronwyn	McDonald	0	2325550140			1	Edit
<input type="checkbox"/>	Charlie	Johnson	0	5550198			1	Edit
<input type="checkbox"/>	Dale	Appleton	0		6045550135		1	Edit
<input type="checkbox"/>	David	Carter	3	2325550194	2325550177		2	Edit
<input type="checkbox"/>	Davis	Swerdlow	0		2325550172		1	Edit
<input type="checkbox"/>	Elkhart	Taxi	0		6045550155		1	Edit
<input type="checkbox"/>	Graham	Ball	0		2325550176		1	Edit
<input type="checkbox"/>	Kathryn	Dolphy	0		6045550195		1	Edit
<input type="checkbox"/>	Linda	Miller	0		6045550117		2	Edit
<input type="checkbox"/>	Lydia	Braithwaite	0	2325550157			1	Edit
<input type="checkbox"/>	Martin	Meyers	0	2325550122			1	Edit
<input type="checkbox"/>	Mary	Williams	0		6045550145	6045550146	1	Edit
<input type="checkbox"/>	Richard	Serling	0		6045550141	7875550181	2	Edit
<input type="checkbox"/>	Robert	Brown	2		6045550105		2	Edit
<input type="checkbox"/>	Sandro	Voss	0	2325550149			1	Edit
<input type="checkbox"/>	Stefan	Wheeler	0		2325550161		1	Edit
<input type="checkbox"/>	Susan	Ballance	0		6045550170		1	Edit
<input type="checkbox"/>	Terry	Ng	0		2325550187		1	Edit
<input type="checkbox"/>	Ursula	Baldwin	0	6045550166			1	Edit

First
1
Last
Next

Delete Selected Entries
Add New Entry
Clear Directory

Import Local Directory

Choose File

Import

Export Local Directory

Export

NOTE: You can also use the phone menu to manage local directory entries. For more information, see Quick User Guides.

The following table describes the buttons available on the Local Directory page.

Click	To...
Sort by Last Name	Sort the list by last name.
Edit	Edit information for an entry
Last	View the last page of entries.
Next	View the next page of entries.
First	View the first page of entries.
Delete Selected Entries	Delete selected entries from the directory. Click Select All to select every entry on the page you are viewing.
Add New Entry	Add a new directory entry.
Clear Directory	Delete all Directory entries.
Choose file	Import a directory file.
Export	Export the directory.

To add a new directory entry:

1. Click Add New Entry.

The Add New Local Directory Entry page appears.

The screenshot shows the 'Add New Local Directory Entry' page. On the left is a sidebar with 'CONTACTS' highlighted. The main area has a navigation bar with 'CONTACTS' selected. Below the navigation bar is the title 'Add New Local Directory Entry'. The form contains the following fields:

- First Name:
- Last Name:
- Ringer Tone:
- Dial Line:
- Home Number:
- Work Number:
- Mobile Number:

A 'Save' button is located at the bottom of the form.

2. Enter the required information as indicated in the following table. At minimum, a first and last name are required.

Create New Entry

Setting	Description	Range	Default
Call Block (not on WUI)	Blocks incoming calls with caller ID matching the directory entry.	Enable, Disable	Disable
First Name	Enter the appropriate names in these fields. The maximum length of the first name and last name fields is 15 characters.	n/a	blank
Last Name			
Ringer Tone	Sets a unique ringer tone for calls from this directory entry.	Auto, Tone 1-10	Tone 1
Dial Line	Sets the line used when you dial this directory entry.	Default Account, Account 1-3	Line 1
Home Number	Enter the appropriate names and numbers in these fields.	string	blank
Work Number			
Mobile Number			

Directory Import/Export

The best way to create a directory file for import is to first export the directory from the phone using the "Export" button. After exporting the file, open it in an .xml editor and add or modify entries.

You can import your modified directory file by clicking on "Import" after browsing and selecting it.

Importing a directory file adds the imported directory entries to existing entries. Therefore, it is possible to have duplicate entries after importing a directory file. If you are importing a "complete" directory file with the aim of replacing the entire current directory, use **Select All** and  to clear the directory before importing the file.

NOTE: Using the configuration file, you can set whether an imported directory file adds to or replaces existing entries. See next subchapter or "file" Module: Imported File Settings.

Directory files are .xml files that have the following tags:

Local Directory WebUI field	Directory file XML tag
First Name	<DIR_ENTRY_NAME_FIRST>

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Local Directory WebUI field	Directory file XML tag
Last Name	<DIR_ENTRY_NAME_LAST>
Home Number	<DIR_ENTRY_NUMBER_HOME>
Work Number	<DIR_ENTRY_NUMBER_WORK>
Mobile Number	<DIR_ENTRY_NUMBER_MOBILE>
Line	<DIR_ENTRY_LINE_NUMBER>
Call Block (not on WebUI)	<DIR_ENTRY_BLOCK>
Ringer Tone	<DIR_ENTRY_RINGER>

Directory Import using configuration files

You can also upload your local directory via configuration files. Related parameters are as follows:

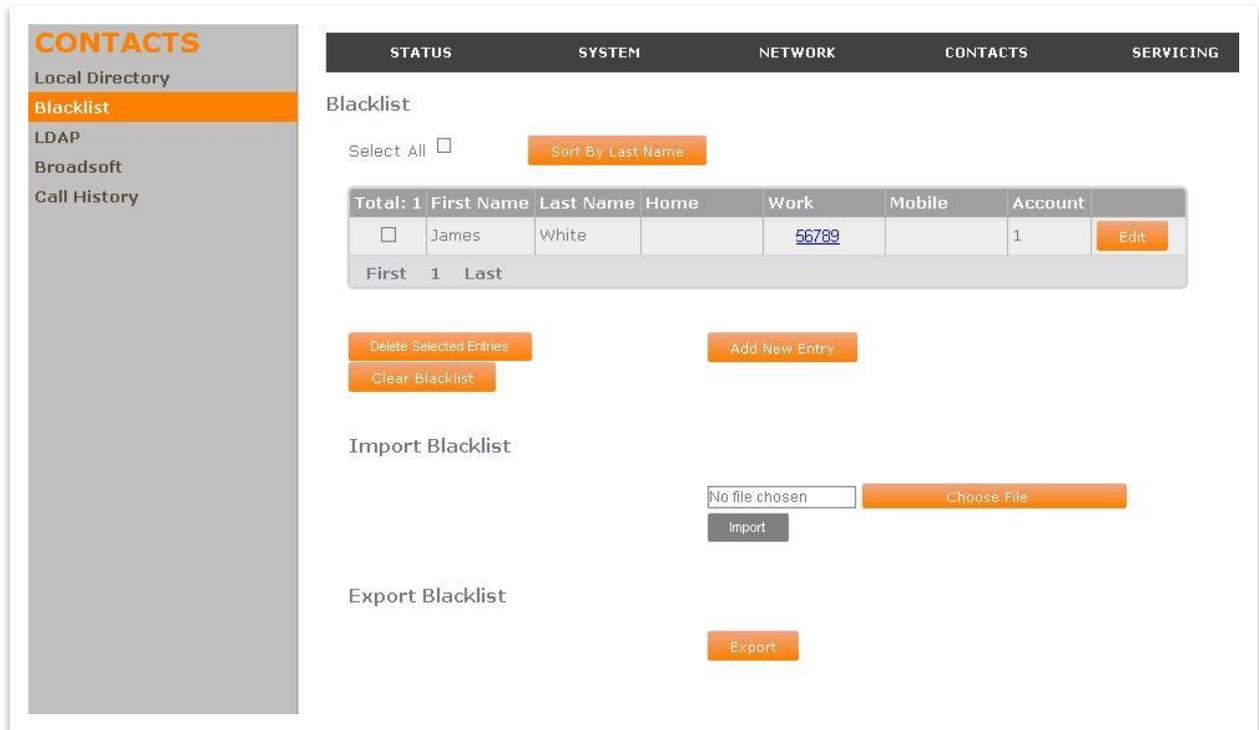
Setting	Description	Range	Default
Contact Import url (append mode, not in WUI) <code>file.contact.directory.append</code>	Sets the url from which the phone will try to fetch the directory file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will be appended to existing entries.	URI	blank
Contact Import url (overwrite mode, not in WUI) <code>file.contact.directory.overwrite</code>	Sets the url from which the phone will try to fetch the directory file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will overwrite existing entries.	URI	blank
Click-to-dial (Not in WUI) <code>provisioning.click_to_dial</code>	Enables or disables the capability to dial a contact entry by clicking on it in the WUI.	0: Disabled 1: Enabled	1

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Black List

On the Black List page, you can manage those contacts whose incoming calls you would like to block.



You can sort, edit, dial, delete, and add up to 200 blacklist entries (100 for Temporis IP100 and Temporis IP150). In order to back up your blocked contacts or import others, the page also allows you to export and import your phone's black list.

The blacklist lists entries on up to 10 pages, with 20 entries per page. The interface and modus operandi are similar to Local Directory, so we will only repeat relevant aspects here.

Black List Import/Export

The best way to create a black list file for import is to first export the directory from the phone using the "Export" button. After exporting the file, open it in an .xml editor and add or modify entries.

You can import your modified directory file by clicking on "Import" after browsing and selecting it.

Directory files are .xml files that have the following tags:

Black List WebUI field	Black List file XML tag
First Name	<BLACKLIST_ENTRY_NAME_FIRST>

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Black List WebUI field	Black List file XML tag
Last Name	<BLACKLIST_ENTRY_NAME_LAST>
Home Number	<BLACKLIST_ENTRY_NUMBER_HOME>
Work Number	<BLACKLIST_ENTRY_NUMBER_WORK>
Mobile Number	<BLACKLIST_ENTRY_NUMBER_MOBILE>
Line	<BLACKLIST_ENTRY_LINE_NUMBER>

NOTE: You can also use the phone menu to manage your Black List. For more information, see Quick User Guides.

Black List Import using configuration files

You can also upload your local black list via configuration files during provisioning. Related parameters are as follows:

Setting	Description	Range	Default
Black List Import url (append mode, not in WUI) <code>file.contact.blacklist.append</code>	Sets the url from which the phone will try to fetch the black list file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will be appended to existing entries.	URI	blank
Contact Import url (overwrite mode, not in WUI) <code>file.contact.blacklist.overwrite</code>	Sets the url from which the phone will try to fetch the black list file during provisioning process. The URL must point to an xml file formatted as described above. Contacts in the xml file will overwrite existing entries.	URI	blank

Note: you can also check "file" Module: Imported File Settings on page 164.

LDAP Directory

The phones support remote Lightweight Directory Access Protocol (LDAP) directories. An LDAP directory is hosted on a remote server and may be the central directory for a large organization spread across several cities, offices, and departments. You can configure the phone to access the directory and allow users to search the directory for names and telephone numbers.

On the LDAP page, you can configure your phone to use a remote LDAP directory server.

The LDAP settings are also available as parameters in the configuration file. See “remoteDir” Module: Remote Directory Settings on page 158.

Setting	Description	Range	Default
Enable LDAP <code>remoteDir.ldap_enable</code>	Select to enable or disable LDAP remote directory	0: Disabled 1: Enabled	0
Directory Name <code>remoteDir.ldap_directory_name</code>	Enter the name to be displayed to the user when accessing LDAP directory through phone menu or programmable key.	string	blank

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Server address <code>remoteDir.ldap_server_address</code>	Enter LDAP server IP address or fqdn.	string	blank
Server Port <code>remoteDir.ldap_server_port</code>	Enter remote LDAP server port. Normally 389.	0-65535	389
LDAP version <code>remoteDir.ldap_protocol_version</code>	Select protocol version (v2 or v3) your LDAP server uses.	version_2, version_3	version_3
Authentication scheme <code>remoteDir.ldap_authentication_type</code>	Select scheme your LDAP server uses to authenticate users.	simple, ssl	simple
Authentication name <code>remoteDir.ldap_user_name</code>	Enter name used to authenticate your phone as a user in front of the LDAP server.	string	blank
Authentication password <code>remoteDir.ldap_password</code>	Enter password to authenticate your phone as a user in front of the LDAP server.	string	blank
Base <code>remoteDir.ldap_base</code>	Enter base directory (distinguished name of the search base object) for LDAP searches.	string	blank
Maximum number of entries <code>remoteDir.ldap_max_hits</code>	Enter maximum number of search results to be displayed.	0-32000	200
Maximum search delay (seconds) <code>remoteDir.ldap_search_delay</code>	Enter timeout before displaying search results.	0-500	0
First name filter <code>remoteDir.ldap_firstname_filter</code>	Enter search criteria for first name look up (rfc2254).	string	blank
Last name filter <code>remoteDir.ldap_lastname_filter</code>	Enter search criteria for last name look up (rfc2254).	string	blank
Phone number filter <code>remoteDir.ldap_number_filter</code>	Enter search criteria for number look up (rfc2254).	string	blank
First name attribute <code>remoteDir.ldap_firstname_attribute</code>	Enter LDAP attribute the phone should use to display first names.	string	blank

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Last name attribute <code>remoteDir.ldap_lastname_attribute</code>	Enter LDAP attribute the phone should use to display last names.	string	blank
Work phone number attribute <code>remoteDir.ldap_work_number_attributes</code>	Enter LDAP attribute the phone should use to display work phone numbers.	string	blank
Mobile phone number attribute <code>remoteDir.ldap_mobile_number_attributes</code>	Enter LDAP attribute the phone should use to display mobile phone numbers.	string	blank
Home phone number attribute <code>remoteDir.ldap_home_number_attributes</code>	Enter LDAP attribute the phone should use to display home phone numbers.	string	blank
Lookup for in-call <code>remoteDir.ldap_incall_lookup_enable</code>	Select to enable or disable queries to the LDAP remote directory when an incoming call is received in order to find any Caller ID matches.	0: disabled 1: enabled	0
Lookup for out-call <code>remoteDir.ldap_outcall_lookup_enable</code>	Select to enable or disable queries to the LDAP remote directory while dialing in order to dynamically suggest users matching dialled digits.	0: disabled 1: enabled	0

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Broadsoft Directory

The phone supports access to the Broadsoft Phonebook. Users can search for and call contacts that are hosted on the Broadsoft Phonebook. On the Broadsoft Phonebook Settings page, you must enter the path and credentials to enable the phone to access the Broadsoft Phonebook. Check with your service provider for more details.

The screenshot shows a web interface for configuring the Broadsoft Directory. On the left, a sidebar lists navigation options: Local Directory, Blacklist, LDAP, Broadsoft (highlighted), and Call History. The main content area has a top navigation bar with tabs: STATUS, SYSTEM, NETWORK, CONTACTS, and SERVICING. Below the tabs, the 'Broadsoft Phonebook' configuration is shown. It includes a checkbox labeled 'Enable Broadsoft Phonebook'. Below this are five input fields: 'Display name:', 'Server address:', 'Port:' (with a '0' in the field), 'Authentication name:', and 'Authentication password:'. A 'Save' button is located at the bottom left of the configuration area.

Setting	Description	Range	Default
Enable Broadsoft Phonebook <code>remoteDir.broadsoft_enable</code>	Select to enable or disable Broadsoft remote directory	0: Disabled 1: Enabled	0
Broadsoft display name <code>remoteDir.broadsoft_display_name</code>	Enter the name to be displayed to the user when accessing Broadsoft directory through phone menu or programmable key.	string	Blank
Server address <code>remoteDir.broadsoft_server</code>	Enter Broadsoft directory server IP address or fqdn.	string	Blank
Server port <code>remoteDir.broadsoft_port</code>	Enter Broadsoft directory server port	0-65535	0
Broadsoft authentication name <code>remoteDir.broadsoft_user_name</code>	Enter user name for authentication in front of Broadsoft directory server.	string	Blank
Broadsoft authentication password <code>remoteDir.broadsoft_password</code>	Enter password for authentication in front of Broadsoft directory server.	string	blank

Call History

On Call History page you can review your call log details. Missed, received and dialed calls are shown in separate tables.

You can also click-to-call entries in these lists. You can disable click-to-dial using configuration file parameter `provisioning.click_to_dial`. See "provisioning" Module: Provisioning Settings on page 155.

The screenshot shows the Alcatel web interface for Call History. On the left is a sidebar with the 'CONTACTS' menu and sub-items: Local Directory, Blacklist, LDAP, Broadsoft, and Call History (which is highlighted). The main content area has a top navigation bar with 'STATUS', 'SYSTEM', 'NETWORK', 'CONTACTS', and 'SERVICING'. Below this, the 'Call History' section is titled, and it contains three tables:

- Missed calls:** A table with columns Date, Time, Name, Number, and Account. It contains one entry: 2014-07-07 at 13:22:20, Name 522, Number [522](#), and Account 1.
- Received calls:** A table with columns Date, Time, Name, Number, and Account. It contains two entries: 2014-07-07 at 13:22:42, Name 505, Number [505](#), Account 1; and 2014-07-07 at 13:22:31, Name 522, Number [522](#), Account 1.
- Dialed calls:** A table with columns Date, Time, Name, Number, and Account. It contains three entries: 2014-07-07 at 13:23:29, Name (empty), Number [505](#), Account 1; 2014-07-07 at 13:22:13, Name (empty), Number [522](#), Account 1; and 2014-07-07 at 13:21:58, Name (empty), Number [513](#), Account 1.

Servicing

Reboot

Reboot page allows you to perform a remote restart of your phone by clicking on the "Reboot" button.



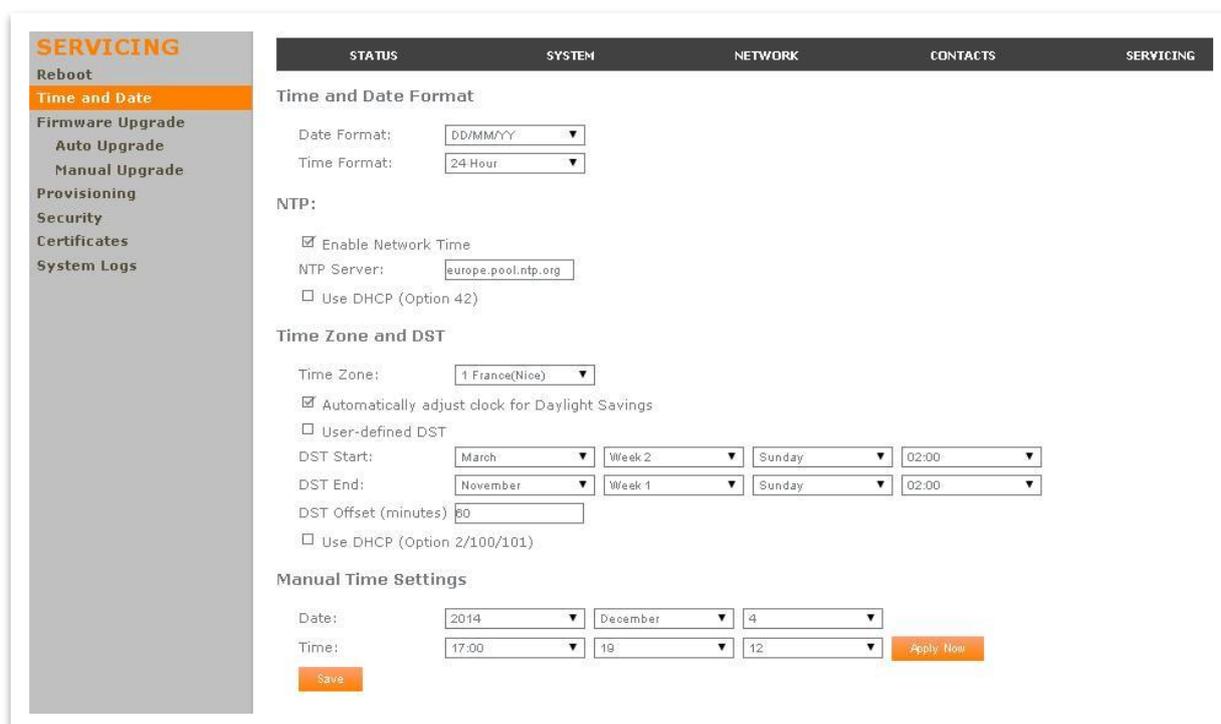
On Temporis IP150, IP300, IP700G, IP1850 restart can also be triggered via phone menu (Menu>>4.Admin settings>>5.Restart phone).

On Temporis IP150, IP300 and IP700G you may also use the shortcut "Long press  key"

Time and Date

On the Time and Date menu, you can manually set the time and date, and the time and date formats. You can also set the system time to follow a Network Time Protocol (NTP) Server (recommended) or you can set the time and date manually.

After changing any settings on this page, click **Save** to save them.



Time and Date Settings

Setting	Description	Range	Default
Date Format <code>time_date.date_format</code>	Sets the date format.	DD/MM/YY, MM/DD/YY, YY/MM/DD	DD/MM/YY
Time Format <code>time_date.24hr_clock</code>	Sets the clock format.	1: 24 Hour 0: 12 Hour	1

Network Time Settings

Setting	Description	Range	Default
Enable Network Time <code>time_date.ntp_server</code>	Enables or disables getting time and date information for your phone from the Internet.	1: Enabled 0: Disabled	1
NTP Server <code>time_date.ntp_server_addr</code>	If Enable Network Time is selected, enter the URL of your preferred time server.	IPv4 or fqdn	europe.pool.ntp.org
Use DHCP (Option 42) <code>time_date.ntp_dhcp_option</code>	With Enable Network Time is selected, tick this option to use DHCP to locate the time server. Option 42 specifies the NTP server available to the phone. When enabled, the phone obtains the time in the following priority: 1. Option 42 2. NTP Server 3. Manual time.	1: Enabled 0: Disabled	0

Time Zone and Daylight Savings Settings

Setting	Description	Range	Default
Time Zone <code>time_date.selected_timezone</code>	Select your time zone.	See appendix	Europe/Paris
Automatically adjust clock for Daylight Savings	Select to adjust the clock for daylight savings time according to the NTP server and time zone setting. To disable daylight savings adjustment, leave this setting and User-defined	1: Enabled 0: Disabled	1

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time_date.daylight_saving_auto_adjust	Daylight Savings Time unchecked.		
User-defined Daylight Savings Time	Select to set your own start and end dates and offset for Daylight Savings time. To disable daylight savings adjustment, leave this setting and Automatically adjust clock for Daylight Savings unchecked.	1: Enabled 0: Disabled	0
time_date.daylight_saving_user_defined			
Daylight Savings Start	Set the start date and time for user-defined daylight savings: Month, week, day, and hour.		
time_date.daylight_saving_start_month time_date.daylight_saving_start_week time_date.daylight_saving_start_day time_date.daylight_saving_start_hour			
Daylight Savings End	Set the end date and time for user-defined daylight savings: Month, week, day, and hour.		
time_date.daylight_saving_end_month time_date.daylight_saving_end_week time_date.daylight_saving_end_day time_date.daylight_saving_end_hour			
Daylight Savings Offset (minutes)	Sets the daylight savings offset (in minutes) if you are in a region that observes daylight savings time. Selecting a setting other than Off immediately sets the clock ahead by the selected time.	0, 30, 60	60
time_date.daylight_saving_amount			
Use DHCP (Option 2/100/101)	If Enable Network Time is selected, tick to use DHCP to determine the time zone offset. Options 2, 100 and 101 determine time zone information.	1: Enabled 0: Disabled	0
time_date.timezone_dhcp_option			
NTP server update interval (secs) (Not in WUI)	Enter interval in seconds to refresh time information with NTP server	0-4294967295	1000
time_date.ntp_server_update_interval			

Manual Time Settings

Setting	Description
Date	Select the current year, month, and day.
Time	Sets the current hour, minute, and second.

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Click **Apply Now** to start the phone using the manual time settings.

Firmware Upgrade

You can update the phone with new firmwares using the following methods:

Retrieving a firmware update file from a remote host computer and accessed via a URL. This central location may be arranged by you, an authorized distributor, or your SIP service provider. See **Firmware Server Settings**.

Using a file located on your computer or local network. No connection to the Internet is required. Consult your distributor for access to firmware update files. See **Manual Firmware Update Settings**.

This is applicable to the desktop phone or base firmware and also to the cordless handsets IP15 firmware if you have any. Handset firmware will be stored in the desk set or base unit memory first, and then uploaded to the handset when requested. Note only one handset can be upgraded at a time.

The screenshot shows the 'SERVICING' menu on the left with 'Firmware Upgrade' selected, showing sub-options 'Auto Upgrade' and 'Manual Upgrade'. The main content area is titled 'Firmware Server Settings' and contains the following fields and buttons:

- Firmware URL: [Update Deskset Firmware Now](#)
- Handset Firmware URL:
- Installed Handset Firmware: Not Available [Install Handset Firmware Now](#)
- Server authentication name:
- Server authentication password:
- [Save](#)

Firmware Server Settings

Setting	Description	Range	Default
Firmware URL <code>provisioning.firmware_url</code>	The URL where the desk set or base firmware update file resides. This should be a full path, including the filename of the firmware file.	string	blank
Server authentication name <code>provisioning.fw_server_username</code>	Authentication username for the firmware server	string	blank
Server authentication password <code>provisioning.fw_server_password</code>	Authentication password for the firmware server	string	blank
Handset Firmware URL <code>provisioning.handset_firmware_url</code>	The URL where the cordless handset firmware update file resides. This should be a full path, including the filename of the firmware file.	string	blank

To update the deskset or base unit firmware from a remote host:

1. Enter the URL where the firmware update file resides. This should be a full path, including the filename of the firmware file.
2. Click **Upgrade firmware now**.

Note: This URL will be saved when you click **Save** on the Admin Settings page, and will be used next time. You can also configure the phone to check for firmware updates at regular intervals or at reboot. See the **Provisioning** page.

To update the cordless handset(s) firmware from a remote host:

1. Enter the URL where the IP15 handset firmware update file resides. This should be a full path, including the filename of the firmware file.
2. Click **Install Handset firmware now**.

Note: This URL will be saved when you click **Save** on the Admin Settings page. You can also configure the phone to check for firmware updates at regular intervals or at reboot. See the **Provisioning** page.

3. Launch the handset upgrade from the handset Admin Settings menu. **Menu>Admin Settings>Firmware update**.

Note: Default password is the same as for the WUI. Use "*" handset key to toggle text entry mode.

The handset will first check whether there are updates available and will ask for your confirmation to proceed. Once confirmed, upgrade will take place over the air (SUOTA)

4. If you have more handsets to upgrade (IP2015), wait for the process to be completed and then repeat step 3 from the next handset, and so on.

Manual Firmware Update and Upload

On the Manual Firmware Update Settings page, you can prompt the phone to immediately download a new firmware file stored in your computer or local network.

This is applicable to the desk set or base unit firmware and also to the cordless handsets IP15 firmware if you have any. Handset firmware will be stored in the deskset or base memory first, and then uploaded to the handset when requested.

The screenshot displays the 'Manual Firmware Update Settings' page. On the left is a sidebar menu under the 'SERVICING' header, with 'Manual Upgrade' highlighted. The main content area features a dark navigation bar with 'STATUS', 'SYSTEM', 'NETWORK', 'CONTACTS', and 'SERVICING'. Below this, the title 'Manual Firmware Update Settings' is followed by two input fields: 'Base File name:' and 'Handset File name:'. Each field contains the text 'No file chosen' and an orange 'Choose File' button. There are also orange buttons for 'Update from File' and 'Install Handset File'. At the bottom, the 'Installed Handset Firmware' status is shown as 'Not Available'.

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To update the deskset or base firmware using a file on your computer or local network:

1. On the Manual Firmware Update page, click **Choose File** to locate and open the firmware update file.
2. Click **Update from File**.

The device will update its firmware and restart.

To update the cordless handset IP15 firmware using a file on your computer or local network:

1. On the Manual Firmware Update page, click **Choose File** to locate and open the handset firmware update file.
2. Click **Install Handset File**.

The phone will load the handset firmware file into its memory.

3. Launch the handset upgrade from the handset Admin Settings menu. **Menu>Admin Settings>Firmware update**.

Note: Default password is the same as for the WUI. Use "*" handset key to toggle text entry mode.

The handset will first check whether there are updates available and ask for your confirmation to proceed. Once confirmed, upgrade will take place over the air (SUOTA).

4. If you have more handsets to upgrade (IP2015), wait for the process to be completed and then repeat step 3 from the next handset, and so on.

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Provisioning

Provisioning refers to the process of acquiring and applying new settings for the device using configuration files retrieved from a remote computer. After a phone or system is deployed, subsequent provisioning can update it with new settings; for example, if your service provider releases new features.

With automatic provisioning, you enable the device to get its settings automatically—the process occurs in the background as part of routine system operation. Automatic provisioning can apply to multiple phones simultaneously.

With manual provisioning, you update settings (configuration and/or firmware) yourself. Manual provisioning can only be performed on one device at a time.

On the **Provisioning** page, you can enter settings that will enable the device to receive automatic configuration and firmware updates. The Provisioning page also allows you to manually update configuration from a locally stored configuration file using an Import function. You can also export the device's configuration—either to back it up or to apply it to another device—to a file on your computer.

The provisioning process functions according to the **Resynchronization** settings and **Provisioning Server Settings**. The device checks for the provisioning URL from the following sources in the order listed below. If one of these sources is disabled, not available, or has not been configured, the phone proceeds to the next source until reaching the end of the list.

1. DHCP Options—this setting is set on the WebUI and/or the configuration file. Before enabling the DHCP options on the **Provisioning** page, ensure that DHCP is enabled on the **Network > Basic** settings page. Otherwise, enabling DHCP for provisioning will not work.
2. Preconfigured URL—this setting is set on the WebUI and/or the configuration file.

After changing any settings on this page, click **Save** to save them.

The screenshot shows the 'SERVICING' section of the Alcatel web interface. The 'Provisioning' menu item is highlighted. The main content area is titled 'Provisioning Settings' and is divided into three sections: 'Provisioning Settings', 'Plug-and-Play Settings', and 'DHCP Settings'. The 'Provisioning Settings' section includes fields for 'Provisioning server' (https://art.atlinks.com), 'Server authentication name', and 'Server authentication password'. The 'Plug-and-Play Settings' section has a checked checkbox for 'Enable PnP Subscribe'. The 'DHCP Settings' section includes a checked checkbox for 'Use DHCP Options' and three dropdown menus for 'DHCP Option Priority 1' (66), 'DHCP Option Priority 2' (159), and 'DHCP Option Priority 3' (160). Below these are text input fields for 'Vendor Class Id (DHCP 60): Alcatel Temporis IP150' and 'User Class Info (DHCP 77): Alcatel Temporis IP150'. The 'Resynchronization' section includes a dropdown for 'Mode' (Both), a dropdown for 'Bootup Check' (On), a text input for 'Interval' (0), a checked checkbox for 'Use encryption for configuration file', and a text input for 'Passphrase'.

Provisioning Settings

Setting	Description	Range	Default
Provisioning server <code>provisioning.server_address</code>	URL of the provisioning file(s). The format of the URL must be RFC 1738 compliant, as follows: "<schema>://<user>:<password>@<host>:<port>/<url-path>" "<user>:<password>@" may be empty. "<port>" can be omitted if you do not need to specify the port number.	URL ftp, tftp, http, https	https:// art.atlinks .com
Server authentication name <code>provisioning.server_username</code>	User name for access to the provisioning server	n/a	n/a
Server authentication password <code>provisioning.server_password</code>	Password for access to the provisioning server	n/a	n/a

Plug-and-Play Settings

Setting	Description	Range	Default
Enable PnP Subscribe <code>provisioning.pnp_enable</code>	Enables the phone to use SIP SUBSCRIBE message for provisioning URL discovery. It takes the highest precedence among all provisioning options. pnp-->dhcp options-->fixed url.	1:Enabled 0:Disabled	1
Response timeout for PnP <code>pnp_response_timeout</code>	Time in seconds the device will be sending PnP SUBSCRIBE and waiting for a response before giving up.	1-60	10

DHCP Settings

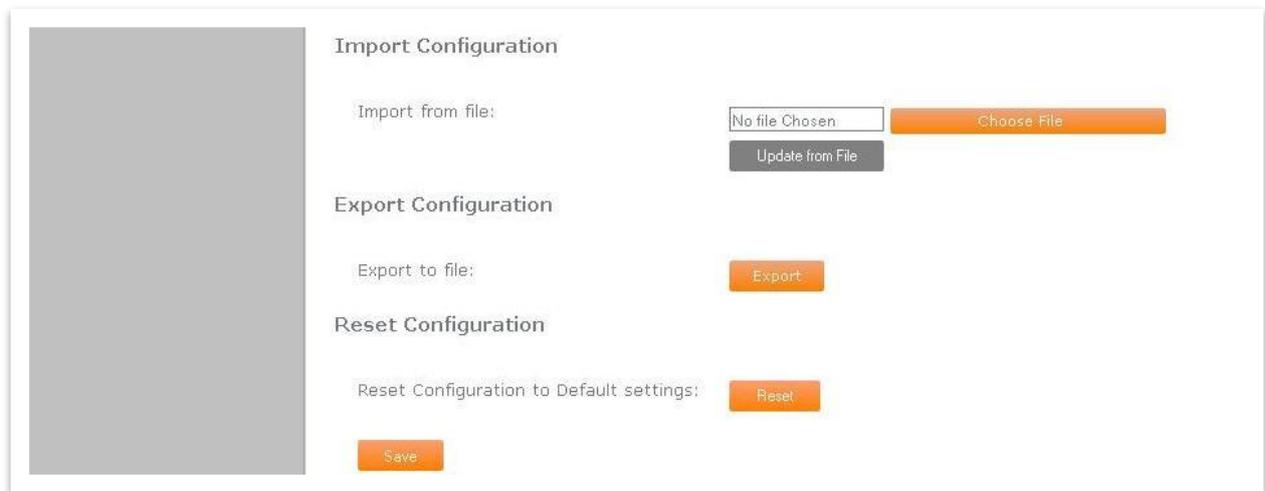
Setting	Description	Range	Default
Use DHCP Options <code>provisioning.dhcp_option_enable</code>	<p>Enables the phone to use DHCP options to locate and retrieve the configuration file, starting with the highest priority option.</p> <p>When selected, the phone automatically attempts to get a provisioning server address, and then the configuration file. If DHCP options do not locate a configuration file, then the server provisioning string is checked.</p> <p>Note: Ensure that DHCP is also enabled on the Network > Basic settings page.</p>	1:Enabled 0:Disabled	1
DHCP Option Priority 1 <code>provisioning.dhcp_option_priority_1</code>	If DHCP is enabled, sets the DHCP Option priority. Select the highest priority option.	66, 159, 160	66
DHCP Option Priority 2 <code>provisioning.dhcp_option_priority_2</code>	If DHCP is enabled, sets the DHCP Option priority. Select the second highest priority option.	66, 159, 160	159
DHCP Option Priority 3 <code>provisioning.dhcp_option_priority_3</code>	If DHCP is enabled, sets the DHCP Option priority. Select the third highest priority option.	66, 159, 160	160
Vendor Class Id (DHCP 60) <code>network.vendor_class_id</code>	<p>DHCP Option 60 is available to send vendor-specific information to the DHCP Server.</p> <p>This way the server can make decisions regarding DHCP options or network parameters to assign to the device.</p>	string	Model dependent, see below
User Class Info (DHCP 77) <code>network.user_class</code>	DHCP Option 77 is available to send vendor-specific information to the DHCP Server.	string	Model dependent, see below

Product name	DHCP Option 60/77 default value
Temporis IP100	Alcatel Temporis IP100
Temporis IP150	Alcatel Temporis IP150
Temporis IP300	Alcatel Temporis IP300
Temporis IP700G	Alcatel Temporis IP700G
Alcatel IP2015	Alcatel IP2015
Conference IP1850	Alcatel IP1850

Resynchronization

Setting	Description	Range	Default
<p>Mode</p> <p><code>provisioning.resync_mode</code></p>	<p>Sets which files the phone checks for at regular intervals.</p> <p>It can check for configuration files, firmware update files (from the URL entered on the Admin Settings page), or both.</p> <p>Note: When checking for both config and firmware files, the firmware URL can be within the config file. This firmware URL takes precedence over the url on the admin settings page. It will also update the URL on the admin settings page. This allows you to change the firmware URL automatically.</p>	<p>config_only: Configuration</p> <p>firmware_only: Firmware</p> <p>config_and_firmware: Both</p>	<p>config_and_firmware</p>
<p>Bootup Check</p> <p><code>provisioning.bootup_check_enable</code></p>	<p>Sets the phone to check the provisioning URL for new configuration and/or firmware files upon boot up. The update is applied as part of the reboot process.</p>	<p>1: On</p> <p>0: Off</p>	<p>1</p>
<p>Interval (minutes)</p> <p><code>provisioning.resync_time</code></p>	<p>Sets an interval, in minutes, for periodically checking for updates.</p>	<p>0-65535</p> <p>0 means no periodic resync will happen</p>	<p>0</p>
<p>Use encryption</p> <p><code>provisioning.crypto_enable</code></p>	<p>Enables an AES-encrypted configuration file to be decrypted before being applied to the phone.</p> <p>Select if the configuration file has been secured using AES encryption.</p> <p>See Securing Configuration Files with AES Encryption.</p>	<p>0: Disabled</p> <p>1: Enabled</p>	<p>0</p>

<p>Passphrase</p> <p><code>provisioning.crypto_passphrase</code></p>	<p>If the configuration file has been secured using AES encryption, enter the 16-bit key.</p> <p>See Securing Configuration Files with AES Encryption.</p>	<p>String</p>	<p>Blank</p>
<p>Remote Check Sync (Not in WUI)</p> <p><code>provisioning.remote_check_sync_enable</code></p>	<p>If enabled, the phone will react to a NOTIFY (check-sync) in order to launch automatic provisioning.</p>	<p>0: Disabled 1: Enabled</p>	<p>1</p>



Import Configuration

You can configure the phone by importing a configuration file from your computer or your local network. For more information about configuration file types and configuration file formatting, see Provisioning Using Configuration Files on page 139.

To import a configuration file:

1. Click Browse to locate and open the configuration file.
2. Click **Import**.

The phone will update its configuration. If any of the updated settings require the phone to restart, the phone will restart immediately, without waiting for one minute of activity.

Manually importing a configuration file differs from the auto-provisioning process in that the phone does not check whether the file has been loaded before. The configuration file is processed whether or not it is different from the current version.

Export Configuration

You can export all the settings you have configured on the WebUI and save them as a configuration file on your computer. You can then use this configuration file as a backup, or use it to update other phones.

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To export the configuration file:

1. Click **Export**.

The format of the exported file is **<model name>_<mac address>.cfg**. For example, **Temporis_IP300_7465D1161234.cfg**.

Exporting a configuration file generates two header lines in the configuration file. These header lines provide the model number and software version in the following format:

```
#Model Number = xxxxxxxx  
#SW Version = xxxxxxxx
```

You can use the exported file as a general configuration file, and duplicate the settings across multiple units. However, ensure that you edit the file to remove any unit-specific SIP account settings before applying the file to other units.

Reset Configuration

To reset the phone to its default configuration:

Under **Reset Configuration**, click **Reset**.

The screenshot displays a web-based configuration interface. On the left is a grey sidebar. The main content area is divided into three sections: 'Import Configuration', 'Export Configuration', and 'Reset Configuration'. The 'Reset Configuration' section is highlighted with a red rectangular border. It contains the text 'Reset Configuration to Default settings:' followed by an orange 'Reset' button. Below this section is a 'Save' button. The 'Import Configuration' section includes a 'No file Chosen' text box, an orange 'Choose File' button, and a grey 'Update from File' button. The 'Export Configuration' section includes an 'Export to file:' label and an orange 'Export' button.

Security

On the Security page you can reset the admin password, reset the user password, and enter web server settings.

After changing any settings on this page, press **Save** to save them.

Administrator Password

Setting	Description	Range	Default
Admin password: Enter old password	Enter admin password. The password is case sensitive and can consist of both numbers and letters.	String	admin
Admin password: Enter new password			
Admin password: Re-enter new password			
<code>profile.admin.password</code>			

To change the admin password:

1. Enter the old password (for a new phone, the default password is admin).
2. Enter and re-enter a new password.
3. Click Save.

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User Password

Setting	Description	Range	Default
User password: Enter old password User password: Enter new password User password: Re-enter new password <code>profile.user.password</code>	Enter user password. The password is case sensitive and can consist of both numbers and letters.	String	user

To change the User password:

1. Enter the old password (for a new phone, the default password is user).
2. Enter and re-enter a new password. The password is case sensitive and can consist of both numbers and letters.
3. Click Save.

Web Server Settings

Setting	Description	Range	Default
HTTP Server port <code>web.http_port</code>	Sets the port where the embedded HTTP server is accessible	0-65535	80
Enable Secure Browsing <code>web.https_enable</code>	Sets the server to use the HTTPS protocol.	1: Enabled 0: Disabled	0
HTTPS Server port <code>web.https_port</code>	Port used by the embedded HTTPS server.	0-65535	443

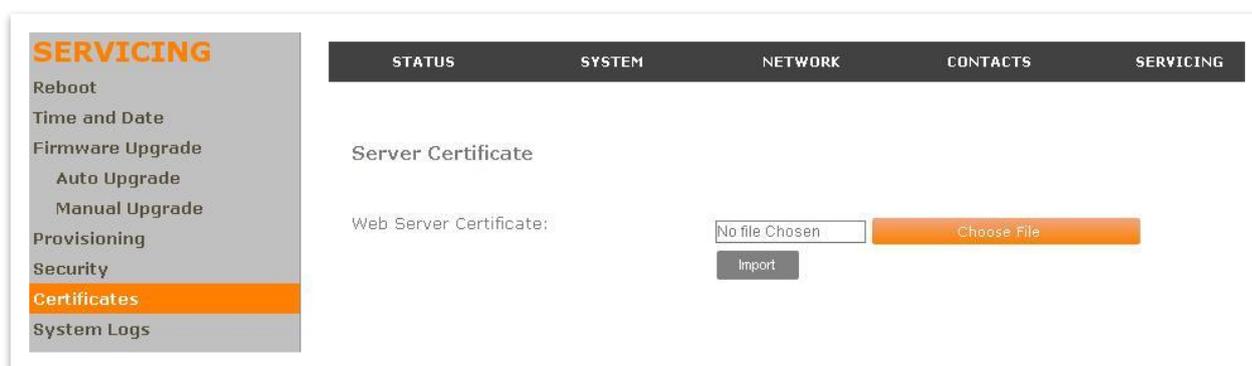
To configure Web Server Settings:

1. Enter the HTTP Server port number. The default setting is 80.
2. Enable or Disable Secure Browsing. When enabled, the HTTPS protocol is used, and you must select the HTTPS server port in the next step.
3. Enter the HTTPS server port number. The default setting is 443.

Certificates

TLS (Transport Layer Security) transport requires security certificates to establish a secure connection between phone and server.

You can upload one or more certificates to the phone using WUI and/or configuration files.



To upload a web server certificate:

1. Under Server Certificate, click **Choose File**.
2. Locate the certificate file and click **Open**.
3. On the Certificates page, click **Import**.

In the configuration file, the web certificate is specified by the `file.https_user.certificate` parameter.

Setting	Description	Range	Default
Import Server Certificate <code>file.https_user.certificate</code>	Enter url to download Server Certificate from	URI	blank
Import Provisioning Certificate <code>file.provisioning.trusted.certificate</code>	Enter url to download Provisioning Certificate from	URI	blank
Only accept trusted Provisioning certificate <code>provisioning.check_trusted_certificate</code>	When enabled, only trusted servers can be used for https provisioning	0: Disabled 1: Enabled	0
Import TLS transport Certificate <code>file.sips.trusted.certificate.x</code>	Enter url to download TLS Certificate from	URI	blank
Only accept trusted TLS certificate <code>sip_account.x.check_trusted_certificate</code>	When enabled, account x using TLS will only accepted trusted servers	0: Disabled 1: Enabled	0

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<p>Use first TLS Certificate for all accounts</p> <p><code>sip_account.use_first_trusted_certificate_for_all</code></p>	<p>When enabled, different certificates for different accounts will not be required for TLS transport</p>	<p>0: Disabled 1: Enabled</p>	<p>0</p>
<p>Import LDAP Certificate</p> <p><code>file.ldap.trusted.certificate</code></p>	<p>Enter url to download LDAP certificate from</p>	<p>URI</p>	<p>blank</p>
<p>Only accept trusted LDAP certificate</p> <p><code>remoteDir.ldap_check_certificate</code></p>	<p>When enabled, only trusted servers can be used for LDAP</p>	<p>0: Disabled 1: Enabled</p>	<p>0</p>
<p>Import Broadsoft Certificate</p> <p><code>file.broadsoft.trusted.certificate</code></p>	<p>Enter url to download Broadsoft directory Certificate from</p>	<p>URI</p>	<p>blank</p>
<p>Only accept trusted Broadsoft certificate</p> <p><code>remoteDir.broadsoft_check_certificate</code></p>	<p>When enabled, only trusted servers can be used for Broadsoft directory</p>	<p>0: Disabled 1: Enabled</p>	<p>0</p>

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System Logs

On the System Logs page, you can enter settings related to system logging activities. You can also generate and download network traces.



Syslog Settings

Setting	Description	Range	Default
Enable Syslog <code>log.syslog_enable</code>	Enable log output to syslog server.	1: Enabled 0: Disabled	0
Server Address <code>log.syslog_server_address</code>	Syslog server IP address.	IPv4	blank
Server port <code>log.syslog_server_port</code>	Syslog server port.	0–65535	514
Log Level <code>log.syslog_level</code>	Sets the level of logging. The higher the level, the larger the debug output.	5: ALL 4: DEBUG 3: INFO 2: WARNING 1: ERROR 0: CRITICAL	2

After entering the Syslog Settings, click **Save**.

The logging levels are:

CRITICAL: Operating conditions to be reported or corrected immediately (for example, an internal component failure or file system error).

ERROR: Non-urgent failures—unexpected conditions that won't cause the device to malfunction.

WARNING: An indication that an error or critical condition can occur if action is not taken.

INFO: Normal operational messages.

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DEBUG: Developer messages for troubleshooting/debugging purposes.

Network Capture

To generate a pcap trace press "Start Capture"

To stop tracing, press "Stop Capture"

To download your capture press "Save to file"

Download Log

To download a copy of the system logs press "Save log to file"

Provisioning Using Configuration Files

Provisioning using configuration files is the quickest way to configure multiple phones. You can place configuration files on a provisioning server, where the phones can retrieve them and update their configuration automatically.

Configuration files have the extension **.cfg** and contain parameters that define various phone settings. To edit a configuration file, open it with a text editor such as Notepad.

Configuration files consist of settings that are grouped into modules. Most of the modules group their settings in the same way that settings are grouped on the WebUI. For example, the "time_date" module contains the same settings that are on the Time and Date WebUI page.

Using the WebUI, you can also import a configuration file and apply the configuration file settings to that phone. For more information, see Provisioning.

Resynchronization—Configuration File Checking

You can select a number of options to set when the phone checks for new configuration files. This process of checking for configuration files is called Resynchronization. Resynchronization options are available on the WebUI **Provisioning** page, but you can also include them in a configuration file.

The resynchronization options are:

Mode—sets the phone to check for a configuration file only, a firmware update file only, or both types of file.

Bootup: configuration file checking at reboot is enabled or not

Remote check-sync—enables you to start a resynchronization remotely using your hosted server's web portal. If the update includes settings that require the phone to reboot, the phone will reboot after one minute of inactivity. The Remote check-sync settings are available only in the configuration file, not the WebUI.

Repeatedly, at a defined interval from 0 (disabled) to 65535 minutes (45 days).

The Provisioning Process

The phone's automatic provisioning process is as follows:

1. Find configuration server location. The phone will try to fetch its configuration information from a PNP-fetched url, or from the URLs indicated in the DHCP options (if enabled), following the priority set for opts 66, 159, 160. If the download is not successful, then it will try the fixed url set at "Provisioning server string"
2. Download the configuration files.

The phone fetches the following two files:

General file: **<model>.cfg**

MAC-specific file: **<model>_<MAC Address>.cfg**

, where <model> values are as shown in the table below:

Product name	<model>
---------------------	----------------------

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Temporis IP100	Temporis_IP100
Temporis IP150	Temporis_IP150
Temporis IP300	Temporis_IP300
Temporis IP700G	Temporis_IP700G
Alcatel IP2015	IP2015
Conference IP1850	IP1850

Thus, for example for Temporis IP300 the files would be Temporis_IP300.cfg and Temporis_IP300_<MACAddress>.cfg

Note: if the url the phone obtains for provisioning file location is a full path including file name, then only this one file download will be attempted.

3. Check updates. The phone maintains a list of the last loaded provisioning files and their digital signature. The phone compares its current configuration against the files it finds on the provisioning server.
4. If any of the changed settings require the phone to restart, the phone restarts.

During provisioning, the phone reads the configuration file and validates each module and setting are validated. The phone considers a setting valid if it is:

a valid data type

formatted as a valid setting

within a valid data range

part of a module that passes an integrity check. That is, the module's settings are consistent and logical. For example, in the "network" module, if DHCP is disabled, but no static IP address is specified, the module will fail the integrity check and none of the settings will apply.

Invalid modules or invalid settings are skipped and logged as ERRORS in the system log, but will not interrupt the provisioning process. The system log will include the module parameters that have not been applied. A recognized module with unrecognized settings will cause all other settings in that module to be skipped.

A successful configuration or firmware update is reported as an INFO message in the system log.

See Appendix A: Configuration File Settings for the options and value ranges available for each configuration file setting.

Phone Restart

If the phone needs to restart after an auto-update, the restart happens only after the phone has been idle for one minute.

To prevent users from delaying the update process, or to avoid phone restarts that might interfere with incoming calls, either set the "repeatedly" resynchronization interval to a suitable period, or upload any new configuration file(s) to your provisioning server after work hours so that the phones will download the file(s) when there is little or no call activity.

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When you update the phone by importing a configuration file using the WebUI, the phone restarts immediately after applying any new settings that require a restart, regardless of whether the phone is idle.

Configuration File Types

The phone is able to retrieve and download two types of configuration file. Depending on your requirements, you may want to make both types of configuration file available on your provisioning server.

The two configuration file types are a general configuration file and a MAC-specific configuration file. The types differ in name only. The formatting of the files' content is identical.

The general configuration file contains settings that are required by all phones in the system.

The MAC-specific configuration file is a file that only a single phone can retrieve. The MAC-specific configuration file name contains a phone's MAC address and can only be retrieved by the phone with a matching MAC address.

The filename formats for both files are:

General file: **<model>.cfg** , e.g. "Temporis_IP150.cfg"

MAC-specific file: <model>_<MAC Address>.cfg

Both the general and MAC-specific files can contain any of the available configuration settings. A setting can appear in the general configuration file or the unit configuration file, or both files, or neither file. If a setting appears in both files, the setting that is read last is the one that applies.

When the phone fetches both a general and a MAC-specific configuration file, the general file is processed first. You can configure a setting for most of your phones in the general file, and then overwrite that setting for just a few phones using the MAC-specific file.

Data Files

The configuration file can also include links to data files other than firmware for product customization.

Link to firmware file is included in the "provisioning" module, and described in Firmware Upgrade section.

Other allowed data types include the following:

Directory (contacts, blacklist) in xml format

Certificates (server, provisioning, LDAP, Broadsoft) in pem format

Audio profile in xml format

Customized boot up and idle screen logo files in .bmp format

Links to data files are in the configuration file's "file" module. This is where you enter any URLs to the data files you require.

NOTE: The audio profile file is already in place and should only be customized for localization purposes, according to internationally accepted guidelines.

None of these settings are exported when you export a configuration file from the phone. However, you can export a Directory or Blacklist .xml file using the WebUI. After modifying the .xml file, you can use the configuration file "file" module to have the phone import the new file. For a complete list of data file parameters, see

"file" Module: Imported File Settings.

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Configuration File Guide

All configuration settings are initially stored in a configuration template file. Copy, rename, and edit the template file to create a general configuration file and the MAC-specific configuration files you will need. You can store the general configuration file and the MAC-specific files on your provisioning server.

Do not modify the header line that includes the model and firmware version.

Note empty parameters will not overwrite values stored in the phone. To delete the content of a parameter use the value %NULL.

To save yourself time and effort, consider which settings will be common to all (or the majority of) phones. Such settings might include Call settings, language, and programmable feature key settings. You can then edit those settings in the configuration template and save it as the general configuration file. The remaining settings will make up the MAC-specific configuration file, which you will have to copy and edit for each phone.

Guidelines for the MAC-Specific Configuration File

The phone downloads the MAC-specific configuration file after the Main configuration file. You must create a unit-specific configuration file for each phone in your system. The file name must contain the phone's MAC address, which is printed on a label on the back of the phone, or available on the **MENU > Status > Product Info** screen. For example, an IP2015 DECT base with the MAC address of 74:65:D1:16:12:34 would download the **IP2015_7465D1161234.cfg** file.

The MAC-specific configuration file contains settings intended exclusively for that phone. Such settings will include SIP account settings such as display name, user ID, authentication ID, and voicemail mailbox ID.

Securing Configuration Files with AES Encryption

You can encrypt your configuration files to prevent unauthorized users modifying the configuration files. The system encrypts files using the AES 256 algorithm. After encrypting a file and placing it on your provisioning server, you can enable the phone to decrypt the file after fetching it from the server.

To decrypt a configuration file you will need a 16-character AES key that you specified when you encrypted the file. The key (or passphrase) is limited to 16 characters and supports special characters `~^`%!&_+=|.@*:,;?()[]{}<>/\#` as well as spaces.

Note: The encryption of configuration files is supported only for the auto provisioning process. Encrypt files only if you intend to store them on a provisioning server. Do not encrypt files that you intend to manually import to the phone. You cannot enable decryption for manually imported configuration files.

To encrypt a configuration file:

You can use for example an open source tool such as Openssl, which can be downloaded from the Openssl project site. If this is the case, proceed as follows.

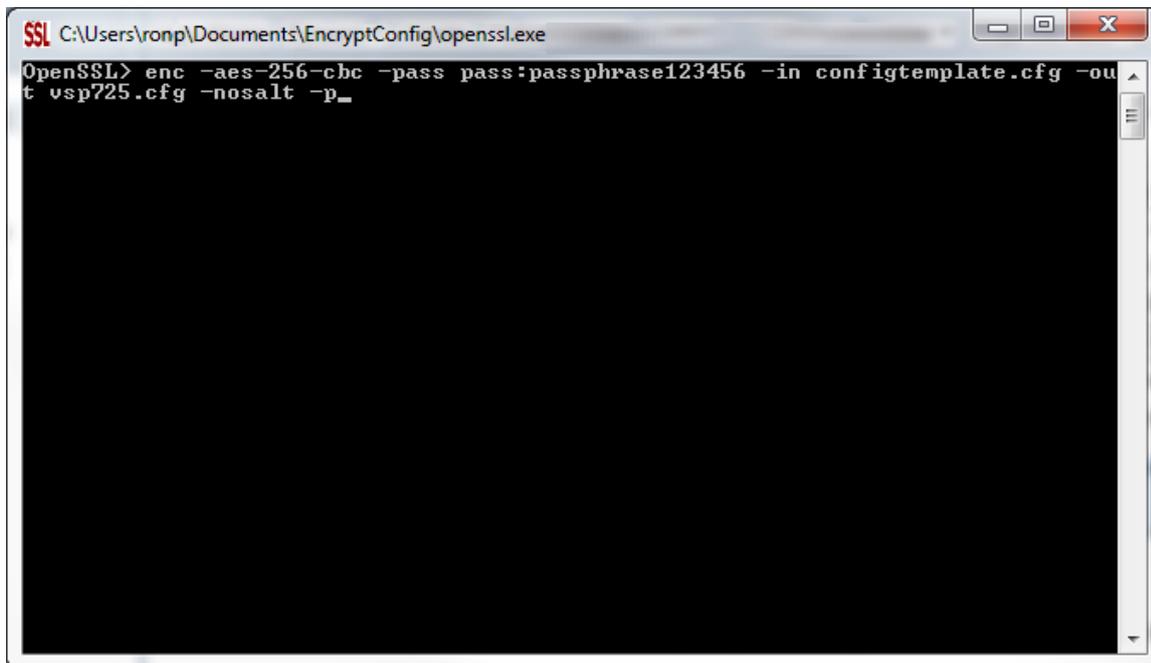
1. (Optional) Place your configuration file in the same folder as the openssl.exe file. If the configuration file is not in the same folder as the openssl.exe file, you can enter a relative pathname for the [infile] in the next step.
2. On the openssl command line, type:

```
enc -aes-256-cbc -pass pass:[passphrase123456] -in [infile] -out [outfile] -nosalt -p
```

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Elements in brackets are examples—do not enter the brackets. Enter a 16-character passphrase and the unencrypted configuration file filename (the "infile") and a name for the encrypted file ("outfile") that will result.



To enable configuration file decryption via WUI:

1. On the WebUI, click **Servicing > Provisioning**.
2. On the Provisioning page under **Resynchronization**, select **Use Encryption for configuration file**.

A screenshot of the "Resynchronization" configuration page in a web interface. It contains the following fields:

- Mode: Both (dropdown menu)
- Bootup Check: On (dropdown menu)
- Interval: 0 (text input field)
- Use encryption for configuration file
- Passphrase: (empty text input field)

3. Enter the 16-character passphrase that you created when you encrypted the configuration file.
4. Click **Save**.

Note: You must ensure that configuration files are encrypted when enabling AES Encryption. Decrypting an unencrypted file will result in a garbage file that is not processed. This will also be logged as an error in the system log.

Setting Up Provisioning

Set up your provisioning server and folders for provisioning files. The general and unit configuration files should be in the same folder. Note the IP address, username and password for access to the folder on the provisioning server.

The Provisioning Server Settings will enable the phone to find the general configuration file. In most cases, default settings will make automatic provisioning possible out of the box without any further action on the phone.

The phone will try first to use PnP SUBSCRIBE to fetch configuration file location information. This mechanism is used by several PBXs in the market.

Secondly it will try to retrieve configuration files location from the different DHCP options, according to their priority. Options 66, 159 and 160 are supported, and either http, https or tftp urls are accepted here.

If the phone does not succeed to find its configuration files in the urls provided in those options, then the Server provisioning string will be used. The default value for this server again allows plug and play automatic provisioning. Check with your distributor to find out how to benefit from APRT service.

SERVICING

Reboot
Time and Date
Firmware Upgrade
Auto Upgrade
Manual Upgrade
Provisioning
Security
Certificates
System Logs

STATUS SYSTEM NETWORK CONTACTS SERVICING

Provisioning Settings

Provisioning server:
Server authentication name:
Server authentication password:

Plug-and-Play Settings

Enable PnP Subscribe

DHCP Settings

Use DHCP Options

DHCP Option Priority 1:
DHCP Option Priority 2:
DHCP Option Priority 3:
Vendor Class Id (DHCP 60):
User Class Info (DHCP 77):

Resynchronization

Mode:
Bootup Check:
Interval:
 Use encryption for configuration file
Passphrase:

If none of these default settings suit your environment, you may have to fill in the server type and address (including a full path to the general configuration file), port, username and password.

Note you can modify Provisioning Server Settings via configuration files; so you could use default settings to perform a first provisioning which rewrites these values to suit your production needs.

Please note also you can decide which of these methods will be used or not in next provisioning sequences and customize them. PnP and DHCP options can be disabled, and DHCP options priority can be changed, both using the WUI and configuration files. Check the appendix for more details.

Soft Keys

Desktop phone soft keys

The table below provides an alphabetical list of the labels that appear above the desktop phones soft keys.

Label	Description
abc/ABC/123 αβγ/ΑΒΓ а6г/АБГ	Selects the format for text input
Add	Displays the new directory group editor
AddCall	Add a call to a network conference
Add dot	Enters dot in IP editing field
Answer	Answers an incoming call
Back	Shows the previous screen
Backspc	Moves cursor back to correct entries in text editing fields
Blind	Starts the blind transfer process for the active call
Bridge	Joins the two active calls in a conference and returns to idle screen
Call Log	Displays Call History menu
Callback	Dials the last missed caller
CallFwd	Displays Call forward menu
Cancel	Quits the current page without saving any settings
CFNA	Displays Call Forward on No answer menu for the default account
cfwdB	Displays Call Forward on Busy menu for the default account
Clear	Delete
Conf.	Opens the live dialing editor to enter or insert digits for the conference target. Also finally sets up the conference.
ConfCall	Displays a list of held calls as a target for conferencing with the active call. Once selected remember to press Conf. again to set up the conference
Del. All	Deletes all records in a list

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Delete	1) Deletes current entry 2) Deletes assignment 3) Deletes Directory group
Dial	Sends and dials currently displayed/highlighted digits
Dir	Changes the speed dial directory source
Directory	Opens the list of available directories
DirPickup	Launches a directed pickup on the default account
DND	Displays DND menu
Done	Confirm
Edit	Go to entry/group editor
EditDial	Edits a number stored in a list before dialing
End	1) Closes the current page 2) Ends the current call
Exit	Exits the current screen and returns to the previous menu
Filter	Sorts the directory by all entries, blocked, or non-blocked numbers
FirstNme	Sorts the directory by first name
Forward	Opens the predial editor to begin forwarding a call
FwdAll	Displays Call Forward All menu for the default account
Insert	Inserts a number from the directory/call history to a live dialing screen
Intercom	Launch an intercom call to a target extension
LastNme	Sorts the directory by last name
Line	Switches between registered lines
MultiPage	Launches a Multicast page
New	Press to predial a new call during a call currently put on hold
No	Returns to the previous screen
OK	Confirm
Page	Launch an intercom call to a target extension
Paging	Launches a Multicast page
Park	Park an active call
PC SPK	For Conference IP1850, switch to PC audio device mode. Requires USB connection.

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Priv Hold	For Broadsoft environments, put a call on a shared line in private hold mode
Redial	Access the dialed calls list
Reject	Rejects an incoming call
Resume	Resumes a call put on hold
Save	1) Saves current setting 2) Begins save process
Search	Opens the Directory search editor
Select	Selects a highlighted option
Settings	Opens the User settings menu
Silence	1) Silences ringer 2) Stops current call screening 3) Silences chime tone
Split	Breaks a conference or call transfer in progress into multiple calls
Status	Access the status submenu
Transfer	Opens the live dialing editor to enter or insert digits of the transfer target.
Transf	Completes a transfer.
Type	Switches between the Directory number types within an entry
View	Displays a database/list
XferCall	Displays a list of held calls as a transfer target for the active call. Once a call selected, remember to press Transf to complete the transfer
Yes	Confirm

IP15 cordless handset soft keys

The table below provides an alphabetical list of the labels that appear above IP15 cordless handset soft keys.

Label	Description
ADD	Add an entry
ANSWER	Answers an incoming call
BACK	Shows the previous screen
BACKSP	Backspace in text editing fields
BASE	Selects IP2015 as the target for a handset registration (vs DESKSET)
BLIND	Starts the blind transfer process for the active call
CANCEL	Quits the current page without saving any settings
CLEAR	Delete
CONF.	Confirms a conference should be set up with the two active calls
DEL	1) Deletes current entry 2) Deletes assignment
DEL ALL	Deletes all records in a list
DELETE	1) Deletes current entry 2) Deletes assignment
DESKSET	Selects a desk set as the target for a handset registration (vs BASE)
DIAL	Sends and dials currently displayed/highlighted digits via a new call
EDIT	Modify content
END	Finalize a call, hang up
ENTER	Access a submenu
INSERT	Chain dialing of a directory number during a call
INT	Intercom
LINE	Enters into the line submenu
MENU	Enters into main menu
NEXT	Toggles to the next call or step in a sequential process
NO	Previous screen

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OFF	Turns ringer vol. bar empty
OK	Returns to previous screen
OPTION	Enters into the action list of a directory folder
REJECT	Rejects an incoming call
RESUME	Resumes a SIP session put on hold
REVIEW	Enters into a database/list
SAVE	Save a setting or a directory entry
SEARCH	Begins Dir searching
SELECT	Selects an option
SET	Save a setting
SILENCE	Silence ringer
STOP	Stop paging of the BS to HS
TRANS.	Confirms a call transfer.
TYPE	Toggles among the Directory number types within an entry
UNLOCK	Shows the keypad unlock prompt
VIEW	See content
YES	Confirm

Appendix A: Configuration File Settings

This section lists the available options for all the settings within the configuration file. Most settings in the configuration file have an equivalent in the WebUI (see the settings tables in Using the WebUI on page 68). Some parameters are not available on the WUI, and in others the syntax is different as already documented in previous sections.

The settings are divided into modules. Each module loosely corresponds to a page on the WebUI. You may wish to reorganize the modules within the configuration file itself. The configuration file settings can be listed in any order, and the configuration file will still be valid.

Module names include among others sip_account, network, provisioning, time_date, log, remoteDir, web, user_pref, call_settings, pfk, speed_dial, ringersetting, tone, profile, hs_settings, file, etc. Descriptions of each module appear in their own sections in this appendix.

“sip_account” Module: SIP Account Settings

The SIP Account settings enable you to set up individual accounts for each user. You can add up to three accounts for each phone. Each account requires you to configure the same settings. The SIP account settings for each account would be identified by their own account number, from 1 to 2.

For example, for account 1 you would set:

```
sip_account.1.sip_account_enable = 1
sip_account.1.display_name = 1001
sip_account.1.user_id = 2325551001
```

and so on.

For account 2, you would set:

```
sip_account.2.sip_account_enable = 1
sip_account.2.display_name = 1002
sip_account.2.user_id = 2325551002
```

and so on.

The SIP account settings follow the format: sip_account.x.[element], where x is an account number ranging from 1 to 2.

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
sip_account.x.sip_account_enable		0, 1	0
sip_account.x.display_name		Text string	Blank
sip_account.x.user_id		Text string	Blank
sip_account.x.authentication_name		Text string	Blank

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sip_account.x.authentication_password		Text string	Blank
sip_account.x.dial_plan	See Dial Plan section	Text string	x+P
sip_account.x.inter_digit_timeout		1-10	3
sip_account.x.maximum_call_number		1-6	6
sip_account.x.shared_line_enable		0, 1	0
sip_account.x.barge_in_enable		0, 1	0
sip_account.x.auto_answer_enable		0, 1	0
sip_account.x.feature_sync_enable		0, 1	0
sip_account.x.music_on_hold_enable		0, 1	1
sip_account.x.mwi_enable		0, 1	0
sip_account.x.mwi_ignore_unsolicited		0, 1	0
sip_account.x.mwi_uri		sip uri	Blank
sip_account.x.mwi_subscription_expires		0-65535	3600
sip_account.x.stutter_dial_tone_enable		0, 1	1
sip_account.x.voice_encryption_enable		0, 1	0
sip_account.x.primary_sip_server_port		0-65535	5060
sip_account.x.primary_sip_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_outbound_proxy_server_port		0-65535	5060
sip_account.x.primary_outbound_proxy_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_registration_server_port		0-65535	5060
sip_account.x.primary_registration_server_address		IPv4 or fqdn	Blank
sip_account.x.primary_registration_expires		0-65535	3600
sip_account.x.access_code_page		Text string	Blank
sip_account.x.access_code_park_call		Text string	Blank
sip_account.x.access_code_retrieve_parked_call		Text string	Blank
sip_account.x.access_code_retrieve_voicemail		Text string	Blank
sip_account.x.access_code_dnd_on		Text string	Blank
sip_account.x.access_code_dnd_off		Text string	Blank

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sip_account.x.access_code_cfa_on		Text string	Blank
sip_account.x.access_code_cfa_off		Text string	Blank
sip_account.x.access_code_cfna_on		Text string	Blank
sip_account.x.access_code_cfna_off		Text string	Blank
sip_account.x.access_code_cfb_on		Text string	Blank
sip_account.x.access_code_cfb_off		Text string	Blank
sip_account.x.access_code_anonymous_call_block_on		Text string	Blank
sip_account.x.access_code_anonymous_call_block_off		Text string	Blank
sip_account.x.access_code_outgoing_call_anonymous_on		Text string	Blank
sip_account.x.access_code_outgoing_call_anonymous_off		Text string	Blank
sip_account.x.access_code_call_waiting_on		Text string	Blank
sip_account.x.access_code_call_waiting_off		Text string	Blank
sip_account.x.access_code_group_call_pickup		Text string	Blank
sip_account.x.access_code_direct_call_pickup		Text string	Blank
sip_account.x.blf_list_uri		Sip uri	Blank
sip_account.x.blf_remote_pickup_code		Text string	Blank
sip_account.x.blf_subscription_expires		15-65535	3600
sip_account.x.nat_traversal_stun_enable		0, 1	0
sip_account.x.nat_traversal_stun_server_port		0-65535	3478
sip_account.x.nat_traversal_stun_server_address		IPv4 or fqdn	Blank
sip_account.x.nat_traversal_udp_keep_alive_enable		0, 1	0
sip_account.x.nat_traversal_udp_keep_alive_interval		0-65535	30
sip_account.x.network_conference_enable		0, 1	0
sip_account.x.network_bridge_uri		sip uri	Blank
sip_account.x.sip_session_timer_enable		0, 1	0
sip_account.x.sip_session_timer_min		90-65535	90
sip_account.x.sip_session_timer_max		0-65535	1800
sip_account.x.dtmf_transport_method	Sets the transport method for	auto, rfc2832, in-band, info-method	auto

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	DTMF signalling.		
sip_account.x.codec_priority.1		G.711a, G.711u, G.729, G.726, G.722	G.711u
sip_account.x.codec_priority.2		none, G.711a, G.711u, G.729, G.726, G.722	G.711a
sip_account.x.codec_priority.3		none, G.711a, G.711u, G.729, G.726, G.722	G.729
sip_account.x.codec_priority.4		none, G.711a, G.711u, G.729, G.726, G.722	G.726
sip_account.x.codec_priority.5		none, G.711a, G.711u, G.729, G.726, G.722	G.722
sip_account.x.unregister_after_reboot_enable	Unregister after reboot enable	0, 1	0
sip_account.x.transport_mode	Signalling Transport Mode	"udp", "tcp", "tls"	"udp"
sip_account.x.backup_outbound_proxy_server_port		0-65535	5060
sip_account.x.backup_outbound_proxy_server_address		IPv4 or fqdn	Blank
sip_account.x.registration_retry_time		1-1800	10
sip_account.x.local_sip_port	Local SIP port	0-65535	Line 1: 5060 Line 2: 5070
sip_account.x.dscp	Voice Quality of Service Layer 3 - DSCP	6-bit value	46
sip_account.x.sip_dscp	Signalling Quality of Service Layer 3 - DSCP	6-bit value	26
sip_account.x.check_trusted_certificate	See Certificates section	0,1	0
sip_account.use_first_trusted_certificate_for_all	See Certificates section	0,1	0
Sip_account.x.normal_jitter		0-255	80

"network" Module: Network Settings

The network settings follow the format: network.[element].

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These settings can be exported when you manually export the configuration from the phone, except for the settings shaded in gray in the table.

Setting	Description	Range	Default
network.ip.dhcp_enable	Indicates whether DHCP is enabled	0, 1	1
network.ip.dns1	Primary DNS server address	IPv4	blank
network.ip.dns2	Secondary DNS server address	IPv4	blank
network.ip.static_ip_addr	Static IP address	IPv4	blank
network.ip.subnet_mask	Subnet mask	IPv4	blank
network.ip.gateway_addr	Gateway IP address	IPv4	blank
network.nat.masquerading_enable	Enable IP masquerading	0, 1	0
network.nat.public_ip_addr	Public IP address	IPv4	blank
network.nat.public_sip_port	Public SIP port	0-65535	5060
network.nat.public_rtp_port_start	Public RTP port start	0-65535	18000
network.nat.public_rtp_port_end	Public RTP port end	0-65535	19000
network.vlan.wan.enable	Enable vlan on WAN port	0, 1	0
network.vlan.wan.id	WAN port VID	0-4095	0
network.vlan.wan.priority	WAN vlan port priority	0-7	0
network.vlan.pc.enable	Enable vlan on PC port	0, 1	0
network.vlan.pc.id	PC port VID	0-4095	0
network.vlan.pc.priority	PC vlan port priority	0-7	0
network.rtp.port_start	Local RTP port range start	0-65535	18000
network.rtp.port_end	Local RTP port range end	0-65535	19000
network.lldp_med.enable	LLDP-MED enable	0, 1	0
network.lldp_med.interval	LLDP-MED packet interval (seconds)	1-30	30
network.eapol.enable	802-1x EAPOL enable	0, 1	0
network.eapol.identity	802-1x EAPOL identity	string	blank
network.eapol.password	802-1x EAPOL MD5 password	string	blank
network.vendor_class_id	Vendor Class ID (DHCP option 60)	string	Alcatel Temporis IP300
network.user_class	User Class (DHCP option 77)	string	Alcatel Temporis IP300

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“profile” Module: security settings

The profile settings follow the format: profile.[element].

These settings are not exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
profile.admin.password	Password for admin	string	admin
profile.user.password	Password for user	string	user

“provisioning” Module: Provisioning Settings

The provisioning settings follow the format: provisioning.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
provisioning.bootup_check_enable	Enable bootup check	0, 1	1
provisioning.crypto_enable	Enable cryptography	0, 1	0
provisioning.crypto_passphrase	Passphrase to decode encrypted config file	string	Blank
provisioning.dhcp_option_enable	Enable DHCP option	0, 1	1
provisioning.dhcp_option_priority_1	DHCP option priority 1	0, 66, 159, 160	66
provisioning.dhcp_option_priority_2	DHCP option priority 2	0, 66, 159, 160	159
provisioning.dhcp_option_priority_3	DHCP option priority 3	0, 66, 159, 160	160
provisioning.firmware_url	Firmware URL	string	Blank
provisioning.fw_server_username	Authentication username for firmware download	String	Blank
provisioning.fw_server_password	Authentication password for firmware download	string	Blank
provisioning.resync_mode	Resync mode	config_only, firmware_only, config_and_firmware	config_and_firmware
provisioning.resync_time	Minutes between checks for new firmware and/or configuration file	0-65535	0

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provisioning.server_address	Server address for configuration download	string	https://art.atlinks.com
provisioning.server_username	Authentication username for configuration download	string	blank
provisioning.server_password	Authentication password for configuration download	string	blank
provisioning.check_trusted_certificate	Require trusted certificate for https provisioning	0,1	0
provisioning.click_to_dial	Enable click-to-dial from WUI contacts page	0,1	1
provisioning.remote_check_sync_enable	Enable provisioning start via NOTIFY check-sync	0,1	1
provisioning.pnp_enable	Enable pnp discovery mechanism for configuration file fetch url	0, 1	1
provisioning.pnp_response_timeout	Time in seconds PnP subscription will be attempted before giving up	1-60	10

“time_date” Module: Time and Date Settings

The time and date settings follow the format: time_date.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
time_date.date_format	Format for displaying the date	DD/MM/YY, MM/DD/YY, YY/MM/DD	DD/MM/YY
time_date.24hr_clock	Enable 24-hour clock format	0, 1	1
time_date.ntp_dhcp_option	Enable NTP server DHCP option (opt 42)	0, 1	0
time_date.ntp_server	Enable NTP server	0, 1	1
time_date.ntp_server_addr	Address of NTP server	IPv4 or fqdn	europe.pool.ntp.org
time_date.ntp_server_update_interval	Delay between NTP server updates, in seconds	0 - 4294967295	1000

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time_date.timezone_dhcp_option	Enable time zone DHCP option (2/100/101)	0, 1	0
time_date.selected_timezone	Set time zone	Please see Appendix B	Europe/Paris
time_date.daylight_saving_auto_adjust		0,1	1
time_date.daylight_saving_user_defined		0, 1	0
time_date.daylight_saving_start_month		January - December	March
time_date.daylight_saving_start_week		1-5	2
time_date.daylight_saving_start_day		"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"	Sunday
time_date.daylight_saving_start_hour		00:00 -23:00	02:00
time_date.daylight_saving_end_month		"January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"	November
time_date.daylight_saving_end_week		1-5	1
time_date.daylight_saving_end_day		"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"	Sunday
time_date.daylight_saving_end_hour		00:00 -23:00	02:00
time_date.daylight_saving_amount	DST offset in minutes	0-255	60

"log" Module: Log Settings

The log settings control system logging activities.

The log settings follow the format: log.element.

These settings can be exported when you manually export the configuration from the phone.

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Setting	Description	Range	Default
log.syslog_enable	Enable log output to syslog server	0, 1	0
log.syslog_level	Log level. The higher the level, the larger the debug output. 5-all 4-debug 3-info 2-warning 1-error 0-critical	0-5	2
log.syslog_server_address	Syslog server IP address	IPv4	blank
log.syslog_server_port	Syslog server port	0-65535	514

“remoteDir” Module: Remote Directory Settings

The remote directory settings follow the format: remoteDir.element.

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
remoteDir.ldap_enable	Enable/disable LDAP	0,1	0
remoteDir.ldap_directory_name	LDAP directory name	String	Blank
remoteDir.ldap_number_filter	LDAP number filter	String	Blank
remoteDir.ldap_firstname_filter	LDAP first name filter	String	Blank
remoteDir.ldap_lastname_filter	LDAP last name filter	String	Blank
remoteDir.ldap_server_address	LDAP server address	IPv4 or fqdn	blank
remoteDir.ldap_port	LDAP server port	0-65535	389
remoteDir.ldap_authentication_type	LDAP authentication type	simple, ssl	simple
remoteDir.ldap_base	LDAP base	String	Blank
remoteDir.ldap_user_name	LDAP user name	String	Blank
remoteDir.ldap_password	LDAP password	String	Blank
remoteDir.ldap_max_hits	LDAP maximum hits	0-65535	200
remoteDir.ldap_firstname_attribute	LDAP first name attribute	String	Blank
remoteDir.ldap_lastname_attribute	LDAP last name attribute	String	Blank
remoteDir.ldap_work_number_attributes	LDAP work number attributes	String	Blank

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remoteDir.ldap_mobile_number_attributes	LDAP mobile number attributes	String	Blank
remoteDir.ldap_home_number_attributes	LDAP home number attributes	String	Blank
remoteDir.ldap_protocol_version	LDAP protocol version	version_2, version_3	version_3
remoteDir.ldap_search_delay	LDAP search delay	0-500	0
remoteDir.ldap_incall_lookup_enable	LDAP incoming call lookup	0,1	0
remoteDir.ldap_outcall_lookup_enable	LDAP outgoing call lookup	0,1	0
remoteDir.ldap_check_certificate	Require certificate for ssl LDAP	0,1	0
remoteDir.broadsoft_enable	Enable/disable Broadsoft directory	0,1	0
remoteDir.broadsoft_display_name	Broadsoft display name	String	Blank
remoteDir.broadsoft_server	Broadsoft server	IPv4 or fqdn	Blank
remoteDir.broadsoft_port	Broadsoft server port	0-65535	0
remoteDir.broadsoft_user_name	Broadsoft user name	String	Blank
remoteDir.broadsoft_password	Broadsoft password	String	Blank
remoteDir.broadsoft_check_certificate	Require certificate for ssl Broadsoft	0,1	0

“web” Module: Web Settings

The web settings control the web server IP, port, and security settings.

The web settings follow the format: web.element.

These settings can be exported when you manually export the configuration from the phone, except for the settings shaded in gray in the table.

Setting	Description	Range	Default
web.http_port	Sets the http port for the embedded web server	0-65535	80
web.https_port	Sets the https port when https is enabled	0-65535	443
web.https_enable	Sets embedded web server to use the https protocol.	0, 1	0

“user_pref” Module: User Preference Settings

The user settings are accessible to the phone user. These settings are useful for initial setup. You may wish to remove these settings from auto-provisioning update files so that users do not have their own settings overwritten.

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The user preference settings follow the format: user_pref.element.

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
user_pref.language	User phone MI language	en, es, fr, de, it, pt, nl, ru, el, tk	en
user_pref.web_language	WUI language	en, es, fr, de, it, pt, nl, ru, el, tk	en
user_pref.lcd_contrast	LCD contrast	1-7	4
user_pref.backlight	Backlight level in non idle mode	off, low	low
user_pref.idle_backlight	Idle backlight level	off, low	off
user_pref.backlight_timeout	Backlight timeout in seconds	10-60	30
user_pref.idle_to_logo_timeout	Sets the delay (in seconds) before the logo replaces the idle screen	0 (disabled)-300	30
user_pref.logo_to_idle_timeout	Sets the delay (in seconds) before the idle screen replaces the logo. This parameter enables the LCD to cycle between the idle screen and the logo	1-300	60
user_pref.absent_timeout	Timeout(sec.) after which live dial will return to idle without additional dialing digits	10-60	30
user_pref.text_input_option	Specify the order & available language input option in user edit mode	number, uc_western, lc_western, uc_ru, lc_ru, uc_el, lc_el	number, uc_western, lc_western
user_pref.account.x.ringer	Ringer tone for account x, where x can be 1,2 or 3	1-10	1
user_pref.ringer_volume	Ringer volume	0-9 (0 is off)	5
user_pref.speaker_volume	Speaker volume	0-9 (0 is off)	5

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user_pref.headset_volume	Cordless headset volume	0-9 (0 is off)	5
user_pref.handset_volume	Corded handset volume	0-9 (0 is off)	5
user_pref.audio_mode	Default audio mode	speaker, headset	speaker
user_pref.key_beep_enable	Enable/disable key beeps	0, 1	1
user_pref.hold_reminder.enable	Enable/disable hold reminder	0, 1	1
user_pref.hold_reminder.interval	Hold reminder interval in seconds	10-300	30
user_pref.call_waiting.mode	Call waiting mode	enable, reject	enable
user_pref.call_waiting.tone_enable	Enable/disable call waiting tone	0, 1	1
user_pref.call_waiting.tone_interval	Call waiting tone interval in seconds	10-60	30
user_pref.call_terminated.busy_tone_enable	Enable/disable playing busy tone when remote party terminates a call	0, 1	1

"call_settings" Module: Call Settings

The call settings configure data related to a user's call preferences.

All the call settings (except one) follow the format: call_settings.account.x.[element] where x is an account number ranging from 1 to 2.

Setting	Description	Range	Default
call_settings.account.x.block_anonymous_enable	Enable/disable anonymous call blocking	0, 1	0
call_settings.account.x.outgoing_anonymous_enable	Enable/disable outgoing anonymous calls	0, 1	0
call_settings.account.x.dnd_enable	Enable/disable Do Not Disturb	0, 1	0
call_settings.account.x.dnd_incoming_calls	Show or reject incoming calls if DND is on	show, reject	reject
call_settings.account.x.call_fwd_always_enable	Enable/disable call forward always	0, 1	0

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call_settings.account.x.call_fwd_always_target	Target number for call forward always	String	Blank
call_settings.account.x.call_fwd_busy_enable	Enable/disable call forward busy	0, 1	0
call_settings.account.x.call_fwd_busy_target	Target number for call forward busy	String	Blank
call_settings.account.x.cfna_enable	Enable/disable call forward no answer	0, 1	0
call_settings.account.x.cfna_target	Target number for call forward no answer	String	Blank
call_settings.account.x.cfna_delay	Delay (in # of rings) before call is forwarded	1-10	6
call_settings.missed_call_alert_enable	Enable/disable missed call alert	0, 1	1

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“pfk” Module: Programmable Feature Key Settings

The programmable feature key (PFK) settings store the data associated with each programmable feature key.

The programmable feature key settings follow the format: pfk.x.[element], where x is the programmable feature key ID, ranging from 1 to 20.

Setting	Description	Range	Default
pfk.x.feature	Assigns a feature to the PFK	pfk 1-4, 11-14: unassigned, line, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, busy lamp field, page, in call dtmf, callback, group call pickup, direct call pickup pfk 5: unassigned, line, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, busy lamp field, page, in call dtmf, callback, group call pickup, direct call pickup, lower pfk 6-10, 16-20: unassigned, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, park call, retrieve parked call, quick dial, page, in call dtmf, callback, group call pickup, direct call pickup pfk 15: lower	See Programmable Keys on page 13.
pfk.x.account	SIP account used for the assigned feature (if applicable)	1-2	1
pfk.x.quick_dial	Quick dial string to use if quick dial is assigned to PFK	sip uri	Blank
pfk.x.blf	BLF string to use if Busy Lamp Field is assigned to PFK	sip uri	Blank
pfk.x.incall_dtmf	DTMF string if in-call dtmf is assigned to pfk.	DTMF digits	Blank

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“speed_dial” Module: Speed Dial Settings

The memory key settings configure the dial pad keys for speed dialing pre-programmed phone numbers. When configured, the phone user can press and hold a dial pad key to dial a programmed phone number.

The memory key settings follow the format `speed_dial.x.[element]`, where x is the dial pad key, ranging from 1 to 0 (with 0 being the “0” key in your dial pad).

Setting	Description	Range	Default
<code>speed_dial.x.number</code>	Phone number that the memory key will dial when pressed and held.	String	blank
<code>speed_dial.x.name</code>	Name associated to this memory key.	String	blank
<code>speed_dial.x.account</code>	SIP account (line) used for dialing when memory key x is pressed and held.	1-2	1

“file” Module: Imported File Settings

The “file” parameters enable the provisioning file to import additional configuration files of various types, including:

- Audio profile
- Contact lists
- Security certificates

File parameter values are URLs that direct the phone to the location of the file to be imported.

None of these settings are exported when you manually export the configuration from the phone. Default value is blank for all of them.

Setting	Description
<code>file.audio_profile</code>	URL of Audio Profile to be imported.
<code>file.contact.directory.append</code>	URL of xml contact directory to be appended to existing contacts.
<code>file.contact.directory.overwrite</code>	URL of xml contact directory to be imported which will overwrite any existing contacts.
<code>file.contact.blacklist.append</code>	URL of xml contact blacklist to be appended to existing black list.
<code>file.contact.blacklist.overwrite</code>	URL of xml contact blacklist to be imported and will overwrite existing black list.
<code>file.sips.trusted.certificate.x</code>	URL of SIPS certificate to be imported for TLS transport on account x.
<code>file.https_user.certificate</code>	URL of HTTPS certificate to be imported.
<code>file.provisioning.trusted.certificate</code>	URL of certificate to be imported for secure provisioning

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file.ldap.trusted.certificate	URL of certificate to be imported for secure LDAP
file.broadsoft.trusted.certificate	URL of certificate to be imported for secure Broadsoft directory
file.bootup_logo	URL of custom logo shown during bootup. For logo specifications, see Logo specifications on page 36
file.idle_logo	URL of custom logo shown on the idle screen. For logo specifications see Logo specifications on page 36

"tone" Module: Tone Definition Settings

The Tone Definition settings configure data for various tones for the purpose of localization. The Audio Manager component uses the data from this model to populate the mcu on bootup.

The tone definition settings follow the format: `tone.element.x`, where `x` is the index of the elements, ranging from 1 to 5.

Each definition (or tone element) must be a string of 12 elements separated by a space:

```
"<num of freq> <freq1> <amp1> <freq2> <amp2> <freq3> <amp3> <freq4> <amp4> <on duration> <off duration> <repeat count>"
```

Where:

```
<num of freq>: 0-4  
<freq1>: 0-65535  
<amp1>: -32768-32767  
<freq2>: 0-65535  
<amp2>: -32768-32767  
<freq3>: 0-65535  
<amp3>: -32768-32767  
<freq4>: 0-65535  
<amp4>: -32768-32767  
<on duration>: 0-2^32  
<off duration>: 0-2^32  
<repeat count>: 0-65535
```

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Default
tone.call_waiting_tone.num_of_elements		1
tone.call_waiting_tone.element.1		"1 440 -120 0 0 0 0 0 0 500 0 1"
tone.call_waiting_tone.element.[2-5]		blank
tone.hold_reminder.num_of_elements		1
tone.hold_reminder.element.1		"1 770 -120 0 0 0 0 0 0 300 0 1"
tone.hold_reminder.element.[2-5]		blank

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tone.inside_dial_tone.num_of_elements		1
tone.inside_dial_tone.element.1		"2 440 -180 350 -180 0 0 0 0 4294967295 0 65535"
tone.inside_dial_tone.element.[2-5]		blank
tone.stutter_dial_tone.num_of_elements		2
tone.stutter_dial_tone.element.1		"2 440 -180 350 -180 0 0 0 0 100 100 10"
tone.stutter_dial_tone.element.2		"2 440 -180 350 -180 0 0 0 0 4294967295 0 65535"
tone.stutter_dial_tone.element.[3-5]		blank
tone.busy_tone.num_of_elements		1
tone.busy_tone.element.1		"2 480 -180 620 -180 0 0 0 0 500 500 65535"
tone.busy_tone.element.[2-5]		blank
tone.ring_back_tone.num_of_elements		1
tone.ring_back_tone.element.1		"2 440 -180 480 -180 0 0 0 0 2000 4000 65535"
tone.ring_back_tone.element.[2-5]		blank

"ringsetting" Module: distinctive ringing settings

The distinctive ringing settings follow the format: ringsetting.[element].

All these settings are exported when you manually export the configuration from the phone.

Setting	Description	Range	Default
ringsetting.x.ringer_text	Content of the "info" field in the Alert-info header to match for distinctive ringing for element "x". See Ringer Settings section	Text string	blank
ringsetting.x.ringer_type	Ringer tone to use when there is a match with ringer_text	1-10	1

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“page_zone” Module: Paging Zone Settings

The paging zone settings allow you to define a maximum of 10 paging zones that the deskset can use for multicast paging.

The paging zone parameters (except for `page_zone.call_priority_threshold`) follow the format `page_zone.x.[element]`, where `x` is the paging zone ID number, ranging from 1 to 10.

Setting	Description	Range	Default
<code>page_zone.x.name</code>	Sets the paging zone name, which appears on deskset LCD for outgoing and incoming multicast pages. A maximum of 15 characters is allowed.	Text string	blank
<code>page_zone.x.multicast_address</code>	Enter the multicast IP address that the deskset will monitor. The range of valid IP addresses is.	IPv4, 224.0.0.0 to 239.255.255. 255	blank
<code>page_zone.x.multicast_port</code>	Enter the multicast port associated with the multicast IP. The range of valid ports is 1 to 65535.	1-65535	blank
<code>page_zone.x.accept_incoming_page</code>	Enables or disables the deskset from receiving incoming multicast pages for that paging zone. If disabled, the deskset can make outgoing multicast pages only.	0 (disabled), 1 (enabled)	1
<code>page_zone.x.priority</code>	Set the paging zone priority from 1 to 10. Zones with a priority higher than another zone can interrupt the lower-priority zone's active page.	1-10	5
<code>page_zone.call_priority_threshold</code>	Set the <code>call_priority_threshold</code> . If the paging zone priority (<code>page_zone.x.priority</code>) is higher or equal to the call	1-10	2

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	priority, then a multicast page can interrupt an active, dialing, or incoming call.		
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“softkey” Module: Custom Soft Key Settings

The custom soft key settings allow you to select which soft keys can appear on the Idle screen, the Call Active screen, the Call Held screen and the Live Dial screen. You can also specify the position of each soft key.

Softkeys appear on the phone screen in the same order as the softkey values you enter. Enter soft key values separated by commas.

You can specify a maximum of nine soft keys (three levels) for each parameter.

The soft key parameters follow the format `softkey.[element]`.

For more information, see Customizing Softkeys on page 38.

Setting	Description	Values	Default
<code>softkey.idle</code>	Specifies the soft keys visible on the idle screen.	<code>blank, dir, call_log, redial, message, dnd, cfwd, cfna, cfwd_all, cfwd_busy, intercom, retrieve, callback, grp_pickup, dir_pickup, line, settings</code>	<code>dir,line,call_log</code>
<code>softkey.call_active</code>	Specifies the soft keys visible on the active call screen.	<code>blank, new, park_call, end, hold, transfer, conf, xferline, conflate</code>	<code>end,transfer,conf,xferline,conflate</code>
<code>softkey.call_held</code>	Specifies the soft keys visible on the held call screen.	<code>blank, new, park_call, retrieve, grp_pickup, dir_pickup, end, resume, transfer, conf, xferline, conflate</code>	<code>end,new,resume,transfer,conf,xferline,conflate</code>
<code>softkey.live_dial</code>	Specifies the soft keys visible on the live dial screen.	<code>blank, dir, call_log, redial, message, end, dial, input, cancel, backspc</code>	<code>backspc,input,dial</code>

“hs_settings” Module: Handset management Settings

Handset management settings allow you to select which accounts are assigned to each handset to make and receive calls, default account that will be used to dial out for a particular handset, or handset name.

For more information, see Handset settings on page 103

Setting	Description	Values	Default
hs_settings.x.assigned_account	Lists accounts assigned to a handset.	Comma separated account index list	1,2,3,4,5,6
hs_settings.x.default_account	Account which will be used to dial out. Exceptions are pre-assignment cases (call log, contacts, speed dial) or user manually selecting a different account.	1 to 6	1
hs_settings.x.handset_name	Name the handset will show on its idle screen	String, up to 12 chars	HANDSET

Appendix B: Time Zones

	Time Zone	String in config file
-11	Samoa	Pacific/Pago_Pago
-10	United States-Hawaii-Aleutian	Pacific/Honolulu
-10	United States-Alaska-Aleutian	America/Adak
-9	United States-Alaska Time	America/Anchorage
-8	Canada(Vancouver,Whitehorse)	America/Vancouver
-8	Mexico(Tijuana,Mexicali)	America/Tijuana
-8	United States-Pacific Time	America/Los_Angeles
-7	Canada(Edmonton,Calgary)	America/Edmonton
-7	Mexico(Mazatlan,Chihuahua)	America/Chihuahua
-7	United States-Mountain Time	America/Denver
-7	United States-MST no DST	America/Phoenix
-6	Canada-Manitoba(Winnipeg)	America/Winnipeg
-6	Chile(Easter Islands)	Pacific/Easter
-6	Mexico(Mexico City,Acapulco)	America/Mexico_City
-6	United States-Central Time	America/Chicago
-5	Bahamas(Nassau)	America/Nassau
-5	Canada(Montreal,Ottawa,Quebec)	America/Montreal
-5	Caicos	America/Grand_Turk
-5	Cuba(Havana)	America/Havana
-5	United States-Eastern Time	America/New_York
-4:30	Venezuela(Caracas)	America/Caracas
-4	Canada(Halifax,Saint John)	America/Halifax
-4	Chile(Santiago)	America/Santiago
-4	Paraguay(Asuncion)	America/Asuncion
-4	United Kingdom-Bermuda(Bermuda)	Atlantic/Bermuda
-4	United Kingdom(Falkland Islands)	Atlantic/Stanley
-4	Trinidad&Tobago	America/Port_of_Spain
-3:30	Canada-New Foundland(St.Johns)	America/St_Johns
-3	Denmark-Greenland(Nuuk)	America/Godthab
-3	Argentina(Buenos Aires)	America/Argentina/Buenos_Aires
-3	Brazil(no DST)	America/Fortaleza
-3	Brazil(DST)	America/Sao_Paulo
-2	Brazil(no DST)	America/Noronha
-1	Portugal(Azores)	Atlantic/Azores
0	GMT	GMT
0	Greenland	America/Danmarkshavn
0	Denmark-Faroe Islands(Torshaven)	Atlantic/Faroe
0	Ireland(Dublin)	Europe/Dublin
0	Portugal(Lisboa,Porto,Funchal)	Europe/Lisbon
0	Spain-Canary Islands(Las Palmas)	Atlantic/Canary
0	United Kingdom(London)	Europe/London
0	Morocco	Africa/Casablanca
1	Albania(Tirane)	Europe/Tirane
1	Austria(Vienna)	Europe/Vienna

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1	Belgium(Brussels)	Europe/Brussels
1	Croatia(Zagreb)	Europe/Zagreb
1	Czech Republic(Prague)	Europe/Prague
1	Denmark(Kopenhagen)	Europe/Copenhagen
1	France(Nice)	Europe/Paris
1	Germany(Berlin)	Europe/Berlin
1	Hungary(Budapest)	Europe/Budapest
1	Italy(Rome)	Europe/Rome
1	Luxembourg(Luxembourg)	Europe/Luxembourg
1	Makedonia(Skopje)	Europe/Skopje
1	Netherlands(Amsterdam)	Europe/Amsterdam
1	Namibia(Windhoek)	Africa/Windhoek
2	Estonia(Tallinn)	Europe/Tallinn
2	Finland(Helsinki)	Europe/Helsinki
2	Gaza Strip(Gaza)	Asia/Gaza
2	Greece(Athens)	Europe/Athens
2	Israel(Tel Aviv)	Asia/Jerusalem
2	Jordan(Amman)	Asia/Amman
2	Latvia(Riga)	Europe/Riga
2	Lebanon(Beirut)	Asia/Beirut
2	Moldova(Kishinev)	Europe/Chisinau
2	Russia(Kaliningrad)	Europe/Kaliningrad
2	Romania(Bucharest)	Europe/Bucharest
2	Syria(Damascus)	Asia/Damascus
2	Turkey(Ankara)	Europe/Istanbul
2	Ukraine(Kyiv,Odessa)	Europe/Kiev
3	East Africa Time	Africa/Djibouti
3	Iraq(Baghdad)	Asia/Baghdad
3	Russia(Moscow)	Europe/Moscow
+3:30	Iran(Teheran)	Asia/Tehran
4	Armenia(Yerevan)	Asia/Yerevan
4	Azerbaijan(Baku)	Asia/Baku
4	Georgia(Tbilisi)	Asia/Tbilisi
4	Kazakstan(Aqtau)	Asia/Aqtau
4	Russia(Samara)	Europe/Samara
5	Kazakstan(Aqtobe)	Asia/Aqtobe
5	Kyrgyzstan(Bishkek)	Asia/Bishkek
5	Pakistan(Islamabad)	Asia/Karachi
5	Russia(Chelyabinsk)	Asia/Yekaterinburg
+5:30	India(Calcutta)	Asia/Kolkata
6	Kazakstan(Astana,Almaty)	Asia/Almaty
6	Russia(Novosibirsk,Omsk)	Asia/Novosibirsk
7	Russia(Krasnoyarsk)	Asia/Krasnoyarsk
7	Thailand(Bangkok)	Asia/Bangkok
8	China(Beijing)	Asia/Shanghai
8	Singapore(Singapore)	Asia/Singapore
8	Australia(Perth)	Australia/Perth
9	Korea(Seoul)	Asia/Seoul
9	Japan(Tokyo)	Asia/Tokyo

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+9:30	Australia(Adelaide)	Australia/Adelaide
+9:30	Australia(Darwin)	Australia/Darwin
10	Australia(Sydney,Melbourne,Canberra)	Australia/Sydney
10	Australia(Brisbane)	Australia/Brisbane
10	Australia(Hobart)	Australia/Hobart
10	Russia(Vladivostok)	Asia/Vladivostok
+10:30	Australia(Lord Howe Islands)	Australia/Lord_Howe
11	New Caledonia(Noumea)	Pacific/Noumea
12	New Zeland(Wellington,Auckland)	Pacific/Auckland
+12:45	New Zeland(Chatham Islands)	Pacific/Chatham
13	Tonga(Nukualofa)	Pacific/Tongatapu

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Maintenance

Taking care of your telephone

Your telephone contains sophisticated electronic parts, so you must treat it with care. Avoid rough treatment.

Place the corded handset down gently.

Save the original packing materials to protect your telephone base if you ever need to ship it.

Avoid water

You can damage your telephone if it gets wet. Do not use the corded handset in the rain, or handle it with wet hands. Do not install the telephone near a sink, bathtub or shower.

Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electric appliances during storms.

Cleaning your telephone

Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap.

Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the telephone should fall into water, **DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND NETWORK CABLE FROM THE WALL**, then pull the unit out by the unplugged cords.

Important Safety Information



This symbol is to alert you to important operating or servicing instructions that may appear in this user's manual. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electric shock.

Read and understand all instructions in the user's manual. Observe all markings on the product.

Avoid using a telephone during a thunderstorm. There may be a slight chance of electric shock from lightning.

Do not use the telephone to report a gas leak in the vicinity of the leak. Under certain circumstances, a spark may be created when the adapter is plugged into the power outlet, or when the handset is replaced in its cradle. This is a common event associated with the closing of any electrical circuit. The user should not plug the phone into a power outlet, and should not put a charged handset into the cradle, if the phone is located in an environment containing concentrations of flammable or flame-supporting gases, unless there is adequate ventilation. A spark in such an environment could create a fire or explosion. Such environments might include: medical use of oxygen without adequate ventilation; industrial gases (cleaning solvents; gasoline vapors; etc.); a leak of natural gas; etc.

Do not use this product near water, or when you are wet. For example, do not use it in a wet basement or shower, or next to a swimming pool, bathtub, kitchen sink, or laundry tub. Do not use liquids or aerosol sprays for cleaning. If the product comes in contact with any liquid, unplug any line or power cord immediately. Do not plug the product back in until it has dried thoroughly.

Install this product in a protected location where no one can trip over any line or power cords. Protect cords from damage or abrasion.

If this product does not operate normally, see the Troubleshooting section in your product's manual. If you cannot solve the problem, or if the product is damaged, refer to the Limited warranty. Do not open this product except as directed in your user's manual. Opening the product or reassembling it incorrectly may expose you to hazardous voltages or other risks.

This power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, an under-the-table or cabinet outlet.



Caution: Use only the original power adapter for this product. To obtain it, check with your authorized distributor or reseller.

SAVE THESE INSTRUCTIONS

CE Declaration of conformity



Hereby, it's declared that this phone is in conformity with the essential requirements and other relevant provisions of the CE. You can download full declaration from www.alcatel-business.com

CE Mark Warning

This is a class B device, in a domestic environment; this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

GPL License Information

Portions of the software associated with this product are open source, and fall within the scope of the GNU General Public License (GPL).