



AVAYA

# MODEL 480i<sup>CT</sup>



USER GUIDE

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## Introduction

This guide compliments the Aastra Model 480i CT Installation Guide that is included with the phone. Please refer to the installation guide for information on hardware requirements, features and physical set up of your new 480i CT.

### Software Prerequisites

- Permission to register at the IP PBX
- Access to a Trivial File Transfer Protocol (TFTP) server

## Methods of installation

The software set up and installation for 480i CT can be through the user interface available from the phone itself or through the AASTRA 480i CT WEB CLIENT web interface.

When the 480i CT is initialized for the first time, DHCP is enabled by default. The DHCP server passes information to the IP phone so that it can configure itself for subsequent IP PBX address and normal runtime operations.

### Note:

- If you are planning on using Dynamic IP addresses, make sure a DHCP server is running on your network
- If you are not planning on using Dynamic IP addresses, refer to section 5, "Configuring the 480i CT IP phone" on how to set up an IP address manually
- Make sure a TFTP server is set up on your network and can accept connections anonymously

**Warning:** *Do not reset or turn off the phone while the phone is initializing or downloading firmware.*

## Setting up the 480i CT

When the 480i CT is first plugged in or reset it will automatically download any firmware updates for the phone.





The binary and configuration files that are required for the 480i CT are: firmware.st, aastra.cfg, <mac>.cfg.

“**Appendix A: Parameter Settings**” on page 31 consists of all the parameters that can be set for the 480i CT phone.

“**Appendix B: Sample configuration files**” on page 36 consists of some sample configuration files with all the basic parameters that need to be set in order to register the IP phone at the PBX.

1. Make sure the TFTP server’s address is configured on the 480i CT. For details on how to set the TFTP server setting for the 480i CT, please refer to section “**Configuring the 480i CT IP phone**” on page 8.
2. Copy the firmware file “firmware.st” to the root directory of the TFTP server. This firmware file is downloaded only when it is newer than the one the phone is currently using.
3. Copy the Aastra configuration file “aastra.cfg” and <mac>.cfg file to the root directory of the TFTP server.

Accessing the phone’s Options list:

1. Press the **Options** button on the phone to enter the options list
2. Use the  and  to scroll through the list of options
3. Press the **Show** softkey, the  button or press the number corresponding to the option to select and option
4. Use the softkeys to change a selected option
5. Press the **Done** softkey at any time to save the change and exit the current option
6. Press the **Cancel** softkey, the  button or the **Goodbye** button at any time to exit without saving the changes

## Administrator level options in the 480i CT

From the phone, administrator level options include all settings under **8. Network**, **9. SIP Settings** and **4. Factory Default** options found under **10. Phone Status** option. When attempting to access these options, the phone will prompt for the administrator passcode before allowing access. The default password for the administrator is “22222”.

### Network

If DHCP is used/enabled, all the Network settings will be automatically configured. The 480i CT’s firmware allows the network settings to be manually entered if for any reason the phone cannot populate any of the settings with DHCP enabled. If DHCP is not used/disabled the following network settings can be configured.

1. **DHCP** - Turns DHCP on or off. IP Address, Subnet Mask and Gateway options are automatically populated and are read only when DHCP is used. DHCP is used by default
2. **IP Address** - The phone’s IP address. To assign a static IP address to the phone, disable DHCP
3. **Subnet Mask** - To assign your own subnet mask to the phone, disable DHCP
4. **Gateway** - To assign your own gateway IP address, disable DHCP
5. **DNS** - To assign your own DNS addresses, disable DHCP
6. **TFTP Server** - The IP address of the TFTP server. To assign your own TFTP server’s IP address, disable DHCP

## SIP Settings

If you have a proxy server or have a SIP registrar present at a different location than the PBX server, the following settings may need to be changed.

1. **Proxy IP** - The proxy server's IP address
2. **Proxy Port** - SIP proxy server's port number. By default this number is set to 5060
3. **Registrar IP** - Set this to the IP address of the registrar
4. **Registrar Port** - SIP registrar's port number. By default this is set to 5060
5. **Log IP** - The IP address of the computer to which the messages should be sent. This setting is used for debugging purposes only.
6. **Log Port** - The port number that the log messages will be sent. This setting is used for debugging purposes only

**Note:** Configuring the Log IP and Port does not log the messages sent to or received by the phone automatically. A software application that listens to the port and at that Log IP is necessary to handle the data that is sent.

7. **User Name** - This is used for communication purposes in the SIP protocol
8. **Display Name** - The string that should be used to display on the 480i CT. Some PBX systems use this for the display and some overwrite this with the string that is set in the system
9. **Auth Name** - The authorization name that is used to register at the IP PBX
10. **Password** - The password that is used to register at the IP PBX

**Note:** The IP PBX administrator creates the Auth Name and Password. Contact your IP PBX administrator to obtain this information.

## Phone Status

### 1. Network Status

Shows the network status of the two Ethernet ports at the back of the phone. You can also view the phone's IP and MAC addresses.

**a. IP Addr** - Shows the IP address of the phone

**b. MAC Addr** - The MAC or the hardware address of the 480i CT's Ethernet card

### 2. Firmware Version

Gives the firmware version information that is installed currently on the 480i CT

### 3. Reset Phone

Reboots the phone. A reset may be necessary when the network settings or the settings for the extension on the IP PBX system are modified

### 4. Factory Default

Sets the phone back to the factory default settings including the network settings. Performing this operation will lose all modified settings

**Note:** For information on other settings in the options list of the phone, please refer to the *Aastra 480i CT Installation Guide* provided with the 480i CT.

## Customizing Your 480i CT Cordless Handset

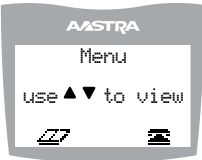
When in an idle state, pressing the Menu key (M) of the handset will present the following list of options. Once in the menu list the user can scroll up (F) and down (V) using the scrolling keys to see each option.

Item #	Menu list
1	Intercom
2	Language
3	Ring tone
4	Custom name
5	Timer Off
6	Vibrate Off
7	Hset pairing
8	Key lock Off
9	Backlight Off
10	Silent Alert

**Note:** The display will return to idle if no action/activity is initiated within 20 seconds.

### Accessing Options

Pressing the (M) key will access the options list menu. This action results in displaying a Menu list header with brief list navigation instructions .



Navigation of the menu is performed using the down arrow (V) key) or the up arrow (F) key). Shortcut to the menu item can also be performed by pressing the corresponding menu item number. Two digits numbered items can be short-cutted by pressing the digits within a one second time span.

Pressing the (M) key will quit the Menu and return to the idle mode or call mode.

### Intercom

The 480i CT supports intercom function between a 480i CT base and any of its paired cordless handsets, and vice versa.

Pressing **Select** while viewing this option will bring up a list of base and paired handsets available for intercom. To select a handset or base to intercom, navigate to the desired handset or the base using the (V) key or the (F) key. Then press the **Call** soft key. Shortcut to any handset or base in the list is permitted by pressing the corresponding numeric key digit; the order of the list is numbered from zero (0) for the base (0) and four (4) for the 4th handset in the list.

### Language

The prompt on 480i CT handset can be personalized to English, French, or Spanish language. A checkmark beside the language indicate the currently selected language prompt.



### Ring Tone

There are 4 selectable Ring tones available on the 480i CT handset. A checkmark beside the ring tone number indicate the currently selected ring tone.



## Custom name

Custom name allows the user to personalize the name/label for the cordless handset. In a multi-handset environment, this is an ideal option to personalize each handset to its user or extension number.

To customize the name:

1. Press **⏏**.
2. Navigate to **Custom Name** or press **4**.
3. Press the **Change** softkey.
4. Press the **Edit** softkey. If a custom name already exists, the **Delete** softkey will be presented.
5. Using the keypad, type out a new label or use the scroll keys **⏏** and **⏏** to move the cursor to the desired display position or to erase text.
6. The **ChCase** softkey is available to toggle between upper and lower case text entry.
7. Press the **Save** softkey to save the name.
8. Press the **Goodbye** **⏏** key to return to the main idle screen.

**Note:** In editing mode, the Volume Bar can be used in place of the **⏏** and **⏏** keys to control the screen cursor. Pressing the Lower end volume bar for Backspace/Erase; and pressing the Higher end volume bar to add a Space.

## Call timer

When the call timer is enabled, the timer starts from the first call and continues until all calls have been released.

**Note:** The call timer is not usable for call accounting since the timer continues to increment even when the call is on hold.

## Vibrate

The Vibrate option allows the handset to signal an incoming call by vibrating as well as ringing. By default, this option is always Off.

- To enable this feature, press the **Change** softkey and the display will indicate "Vibrate On" and "-confirmed-" and will quickly return to the previous menu display.
- Once the Vibrate is On, **🔊** icon is shown beside the ringer icon on the top right line of the display.
- Pressing the **⏏** key will return you to the main idle display screen.

## Handset Pairing

All handsets must be paired to a 480i CT base before it can be used. Please refer to the section entitled "Pairing and Unpairing Cordless Handset to Base" on page 27.

## Key Lock On or Off

The key lock option enables the user to lock the keypad keys. This prevents accidental activation of the phone.

To lock the keys from the key lock option page:

- Press **Change** softkey to turn Key lock ON or OFF. The screen will display **Key lock On** or **Key lock Off -confirmed-**.

Pressing the **⏏** key will return you to the main idle display screen.

**Note:** You can activate the Key Lock Off or On by pressing only the **⏏** and then the **⏏** key from the idle screen.

## Backlight

The Backlight option allows the user to turn on or off the backlit light on the LCD display.

Press **Change** softkey to turn Backlight ON or OFF.






Once the Backlight option is chosen, the screen will display **Backlight On** or **Backlight Off -confirmed-**.

### **Silent Alert**

The Silent Alert option will activate an internal hardware vibrator instead of a regular ringer during an incoming call. By default, the Silent Alert is automatically set to Off.

To activate Silent Alert from the option display:

- Press **Change** softkey to turn alert On or Off. The display will show **-confirmed-**.
- Once the Alert is On,  icon is shown on the top line of the display.

**Note:** You can activate or deactivate the Silent alert by pressing only the  key and then the  key.

**Note:** The Ringer Icon does not appear on the display when the Silent alert is On.

## Aastra 480i CT Web Client

To access the AASTRA 480i CT WEB CLIENT, open your web browser (supports Internet Explorer and Gecko engine based browser like firefox or mozilla) and enter the phone's IP address into the address field, starting with the web prefix http://



In the side menu of the AASTRA 480i CT WEB CLIENT, there are three main categories: **STATUS**, **USER** and **ADMIN**.

- The **STATUS** category contains read only status information for sub-categories Network, Hardware and Firmware.
- The **USER** category contains user configurable sub-categories Reset and Password. This section is accessed through their user level or the administrator level user name and password (You'll be prompted when one of these options is selected). For more information, refer to the *Aastra 480i CT Administrator Guide*.
- The **ADMIN** category contains administrator only configurable sub-categories: Network and Firmware. This section is accessed through the admin level user name and password (You'll be prompted when one of these options is

selected). For more information, refer to section "**Configuring the 480i CT IP phone**" on page 8.

For the administrator, the default user name is "admin" and password is "22222", and for the user, the default user name is "user" and the password field is left blank. The passwords can be changed using the web client or by using the phone's SIP Settings option.

## Configuring the 480i CT IP phone

The Network and SIP options within the 480i CT phone can be configured from the phone or from the AAastra 480i CT WEB CLIENT web interface. Administrator level options are password protected in both the phone and the web interface. User level options are password protected within the web interface only.

### Network

DHCP automatically sends the IP address, Subnet Mask and Gateway network (also DNS and TFTP Server) information to the 480i CT phone during initialization when the phone is first powered up or reset. By default, the DHCP setting is enabled. Keep in mind that the network settings cannot be changed when DHCP is used.

#### *To change whether DHCP is used:*

##### From the 480i CT Phone

1. Press the **Options** button to enter the Options List
2. Select option **8. Network**
3. Enter the password. The default (if it was never changed) password is **22222**
4. Press the **Enter** softkey
5. Select option **1. DHCP**
6. Press the **Change** softkey to indicate whether DHCP should be used or not.

##### From the web client

1. Click on the Network sub-category under the ADMIN main category
2. Enter the administrator user name and password
3. In the web page that has just opened check the Use DHCP check box provided, to use DHCP and uncheck to indicate that you do not want to use DHCP

4. Click on the **Set Values** button to save the changes that you just made

If you are not using DHCP, you need to enter the network information for the phone manually.

#### *To configure the networks settings:*

##### From the 480i CT Phone

1. Press the **Options** button to enter the Options List
2. Select option **8. Network**
3. Enter the password. The default (if it was never changed) password is **22222**
4. Select option **2. IP Address** to change the IP address
5. Select option **3. Subnet Mask** to change the subnet mask
6. Select option **4. Gateway** to change the gateway address
7. Select option **5. DNS** to change the DNS

**Note:** When an IP address has been assigned to the phone, you have the option to either continue configuring the 480i CT through the button on the phone or to start using the Aastra 480i CT Web Client.

##### From the web client

1. Click on the Network sub-category under the ADMIN main category
2. Enter the administrator user name and password
3. In the web page that has just opened enter the IP address of the phone, the Subnet Mask and the Gateway IP address in their corresponding fields.

Contact your network administrator to obtain information on the Subnet Mask, Gateway and DNS addresses.

#### TFTP Server settings

The 480i CT Phone uses the TFTP to update the phone's firmware and it's configurations.

## **To set the TFTP server's address:**

### **From the 480i CT Phone**

1. Press the **Options** button to enter the Options List
2. Select option **8. Network**
3. Enter the password. The default (if it was never changed) password is **22222**
4. Select option **6. TFTP Server** to change the TFTP server

### **From the web client**

1. Click on the **Firmware** sub-category under the **ADMIN** main category
2. Enter the administrator user name and password
3. In the new web page enter the name of the firmware file and the IP address of the TFTP server
4. Click the **Download Firmware** button if you wish to download the firmware on to the phone. Performing this action will download the firmware. You will have to reset the phone to use the currently downloaded firmware.



## Programming Feature Key

The Feature key permits the programming of the following functions. The default functions are marked in **bold**.

Label	Key Function
None	No function is selected – this key is empty, no label.
Line 1	Line 1 key - Selects line one
Line 2	Line 2 key - Selects line two
Line 3	Line 3 key - Selects line three
Line 4	Line 4 key - Selects line four
Icom	Intercom key – Enter handset list to select handset to call
Dir	Directory key – Activate directory feature
Callers	Callers key – Activate callers feature
Xfer	Transfer key - Activate transfer feature
Conf	Conference key - Activate conference feature
Public	Public key – Toggle between public & private call mode
Line 5	Line 5 key (if available) - Selects line five
Line 6	Line 6 key (if available) - Selects line six
Line 7	Line 7 key (if available) - Selects line seven
Line 8	Line 8 key (if available) - Selects line eight
Line 9	Line 9 key (if available) - Selects line nine

### Programming Guideline

The following is a guideline to use when programming the Feature key: All handsets will have the same programmed functions since the web interface apply to all the handsets that are paired with the base.

A newly registered handset or handset that was out-of-range during the programming will need to perform a "off-hook and on-hook" sequence in order for the newly programmed function to be broadcasted to the affected handsets. Simply press the  key from the idle state to go off-hook. Then, press the  key to go back on-hook.

Duplicate function can exist in the Feature key as there is no filtering or duplicate checking done on the handset or the base.

If no line keys are programmed for the Feature key, the handset will be restricted to intercom calls only.

If all 12 programmable functions have been programmed to "None", the user will be presented with a **List empty** message when the Feature key is pressed.

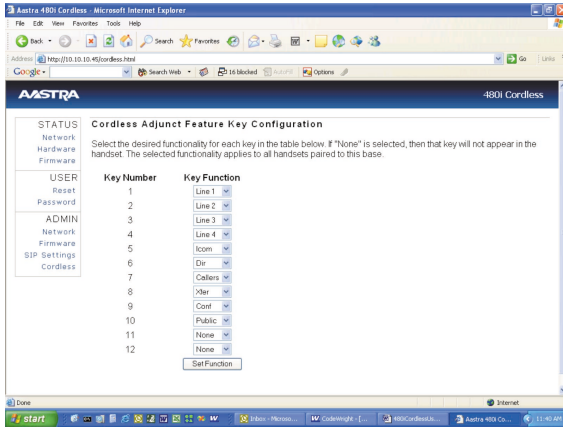


For security reason, the user has 180 seconds (3 minutes) to complete the programming. Otherwise, the phone will respond with the following error: **\*\* Error \*\*: Session expired, Please reload Page.**

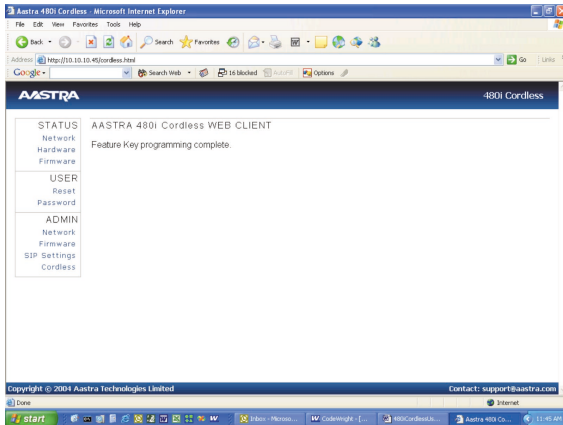
For security reason, the user must submit the page from the same browser that was used to load the page. If the user tries to submit the page from any other IP address, the error: **\*\* Error \*\* Session invalid. Different Client IP Addresses.** — **Please reload page** will be displayed.

### Feature Key Web Interface

All Feature key functions are programmable via the 480i CT web interface only. To access the web interface, enter the IP address of the 480i CT phone in your browser. Then, select the **Cordless** link under the **Admin** menu.



Once the functions are programmed, click on the **Set Function** button at the bottom of the page. This action will send the programming information to the phone and the key programming will be sent out to the cordless handsets. Any key programmed to "None" will not appear in the handset's list.








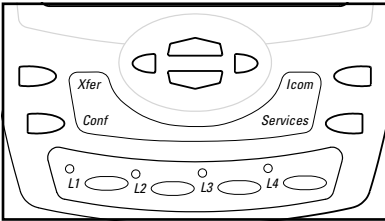
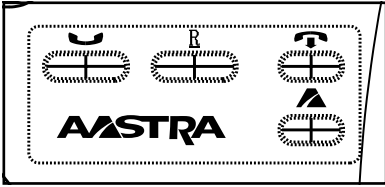
### Web Page Language Support

The "Cordless" web page will display on of the three languages – English, French, and Spanish – supported by the phone. However, the web page will be presented in the language as set on the base unit. The functions in the Feature Key labels will appear on the handsets in the language selected on the individual handsets.

## Using your 480i CT Base Station

### Hard keys

There are Hard keys on your phone, such as Hold , Redial , Xfer , Icom  and Conf  that are configured for the call handling features. These keys are static and cannot be reprogrammed or changed. They are located in two different areas on the phone.



### Softkeys

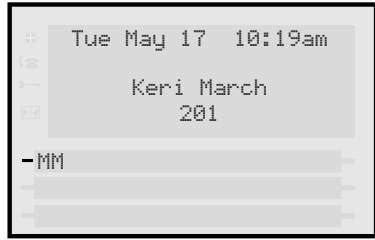
Your 480i CT has 6 softkeys, 3 on either side of the phone's display. These softkeys are pre-programmed for call handling and extension management features of the SIP system. The softkey menus will change depending on the phone's state, displaying relevant softkeys only.

**Note:** The softkeys outlined in this section represent the default arrangement of softkeys within the various screens.

### Idle State

The idle state menu appears when the 480i CT phone is not in use. The softkeys in the idle state menu allow

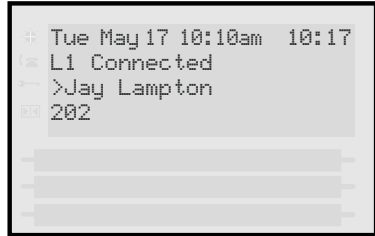
you make calls, pickup calls, check voicemail, and manage the phone's extension and more.







MM: Message Waiting Icon

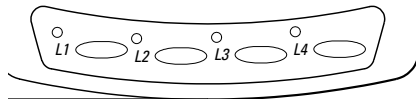
### Connected State

The Connected State Screen will appear when you are talking to someone on the phone. Connected State functions are available as softkeys on the connected state screen, as well as hard keys on the phone. These softkeys and hard keys allow you to handle calls, such as transferring, conferencing, placing calls on hold and more.



### Multiple Line and Call Appearances

The 480i CT has 4 line/call appearance buttons each with a corresponding status light: , ,  and .



These line/call appearance buttons and lights can represent physical lines, calls for the phone's extensions or calls

from group that the extension is a part of. By pressing a line/call appearance button, you connect to the line or a call it represents.

The line/call appearance light shows the status of that line or call. When the phone is taken off-hook, the phone will automatically select a line for you.

Line/Call Appearance Light Behaviour	Line/Call Appearance Status
Off	Idle line or no call activity
Light flashes quickly	Ringing
Light is solid	Connected
Light flashes slowly	Hold

## Services

The services key on the 480i CT will access enhanced features and services provided by third parties. Availability of this feature will depend on your phone system or service provider.

Two built-in services that are currently offered with the 480i CT are Directory and Callers List. Directory allows you to store up to 200 entries locally on the phone. Whereas the Callers List will store up to 200 calls received – answered and unanswered.



## Icom Key

On the 480i CT base, the **Icom** key functions to access the cordless intercom feature. This feature allows the base to talk to any registered cordless handsets.

## Redial Key

The Redial list contains 100 items.

While on-hook, pressing the **Redial** hard key will invoke the Redial list. While off-hook, the **Redial** key functions as a "hot redial" where the last number dialled is dialled again.



## Using the 480i CT Cordless Handset

### Idle Mode









During idle mode (i.e. no incoming call, no active call, or no call on hold), the handset name, date & time, status messages, and status icons are present on the display.



**Note:** The phone name label (Angela in the diagram above) can be edited in the Options list.



### Handset Icons and Status Messages

#### Screen Icons

	<b>Battery Charge State</b> 4 bars for battery full and the battery icon flashes when charging
	<b>Reception (Radio Link)</b> On - Within Range: Ready for use OFF - Out of range/no radio link
	<b>Feature Key Activation</b> Indicates the phone is off hook or a call is in progress
	<b>Silent Alerter</b> Silent alerter activated
	<b>Ringer Volume</b> This icon is available only when the phone is in idle mode to indicate the ringer volume level. The box will go from empty to fully black to represent from off to low to high volume.
	<b>Receiver Volume</b> This icon is available only when the phone goes off-hook to indicate the receiver audio volume. The box will go from empty to fully black to represent from low to high volume; there are 10 volume levels total.
	<b>Directory List</b> This icon located just above the softkey allows access to the Directory List feature.
	<b>Callers List</b> This icon located just above the softkey allows access to the Callers List feature.


**Status Messages**

Display Message	Description
Microphone mute	Indicates when the Mute button has been Activated
Out of range	Appears briefly when pressing a key if out of range of the base station

**Handset Keys****Softkeys** (  or  )


Your 480i CT cordless handset has 2 softkeys directly under the LCD display. The softkey menus will change depending on the phone's state, displaying relevant softkeys only. These softkeys are pre-programmed for the call handling and extension management features.

**Talk /Hold**  **Key**

The Talk/Hold key  is a multi-purpose key with the following uses:

- To initiate a call by seizing the line or through pre-dial.
- To answer a call during ringing.
- To place a call on hold during an active call.

**Hold**  **Key**

Pressing the hold key  while on a call will place the call on hold. While a call is on hold, and if there are no other active calls, the LED will flash at the hold rate and the display will present the **Call is on hold** prompt. In addition, held call reminder tone will be played in the form of a short ring burst (flash ring).

This handset is equipped with an auto-hold feature. While on an active call, pressing any other line key will result in the current line being placed on hold and the new line being seized.



**Release Key** (  )

The release key is a multi-purpose key with the following uses:



- To end a call.
- Note:** If handset is placed in the charger cradle, it will also end the call.
- To silent the ringing during an incoming call.
  - To exit feature such as Menu (options), Directory, Callers, Redial, Predial.

**Note:** Pressing this key in a feature will not terminate an active call.

**Mute Key** (  )

Use the mute key when you want to be able to hear a caller but have them not hear you. Press the  key to mute the handset. Press the  key again to disengage mute. The **Microphone mute** prompt is displayed when mute is activated.

**Redial Key** (  )

The Redial key displays a list of the last 10 calls made from the handset. Use the  and  to scroll through the list.

## Feature Key List ( )

The 480i CT cordless handset supports a programmable feature key list for easy access to common features. The available features include line keys, intercom, directory, callers log, transfer, conference, and public/private call mode.

## Menu List ( )

The Menu list allows access to intercom calling, and personalization of handset including language, ring tone, vibrate, backlight and silent alert. Please refer to the section “Customizing Your 480i CT Cordless Handset” on page 4.

## Multifunction Handset LED Indicator

The multifunction Handset LED provides the following user feedback:

- Flash: Message Waiting Indicator – Slow
- Flash: Alerting – Rapid
- Flash: Mute – intermittent
- Flash: Hold – Intermediate
- Solid: On an active call

## Battery Charging

The handset is powered by a nickel metal hydride battery pack. To install and charge the battery:



1. Slide the cover of the battery compartment.
2. Place the battery pack in the compartment with the connector wires pointing towards the bottom of the handset.
3. Connect the battery terminal wire to the charging pins located in the compartment
4. Slide the cover of the battery compartment back onto the handset
5. Place the handset, face up, in the charging cradle. The handset should easily slide into the charging cradle. If it does not, check the battery compartment cover to ensure it is in the proper position.

To confirm that the battery is charging, check the battery icon symbol on the handset display to see if the lines inside the icon are flashing left to right.

**Note:** The battery must be charged for a minimum of six hours prior to initial usage of the phone.

## Handset Battery Indicator & Status

The display provides "at a glance" information on the handset battery.

	The bars indicate the battery charge level — 4 for full, needs recharging when only 1 bar appear
	The bars will flash when the battery is being recharged on the charger stand.

**Note:** The handset is designed to recharge the batteries automatically, when required and placed on the charger stand. The battery icon will not flash and the handset does not charge every time it is placed on the stand. If a defective battery is replaced, then the battery Icon is not identified until the new battery is charged for at least 2 minutes.

## Volume Control

The volume key, located on the side of the handset, controls both the receiver and ringer volume.

**Note:** The volume key can also be used to adjust the right/left cursor to add spaces or to erase characters on the display when editing or creating names, key labels etc.

### To adjust the receiver volume:

- While on a call, press the top of the key to increase the receiver volume and press the bottom of the key to decrease the volume. The receiver volume icon on display will indicate the current volume level. In absence of a PBX, the receiver volume returns to the default setting after each call. However, the PBX directive can direct the handset default to the volume.

### To adjust the ringer volume:



- When the handset is not being used for a call, press the top of the key to increase the ringer volume and press the bottom of the key to decrease the ringer volume. The handset ringer will sound on each adjustment to reflect the new setting and the ringer volume icon on display will also show the current level chosen.

## Directory – 480i CT Cordless Handset

### Entering Characters and Numbers

#### Editing keys



During alphanumeric entry, the volume control keys become edit keys. They are used to provide backspace and forward-space capability to the unit. For Backspace/Erase, press the Lower end of the volume bar. To add a space or to erase from left to right, press the higher end of the volume bar.

**Note:** The Down scroll key (marked ) or the Up scroll key (marked ) are also used to provide backspace and forward space respectively.


#### General Record Editing

To accommodate adding and editing, use the available characters as labelled on the keypad. Pause key and special characters are also available:


#### key / Pause key



To allow the user to enter pause characters, the pause key is the  digit key in alphanumeric editing mode. Characters will appear in the following order: : 0, .

#### key

In the alphanumeric mode, the  digit key will access several special characters. Characters will appear in the following order:

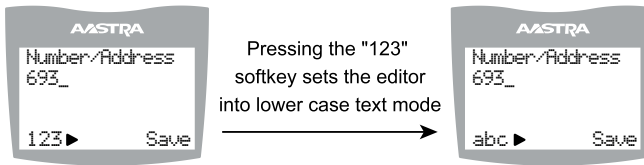
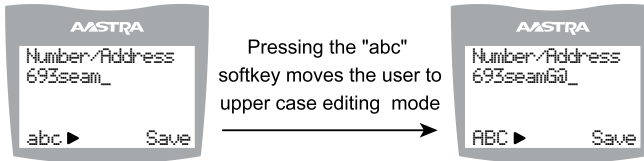
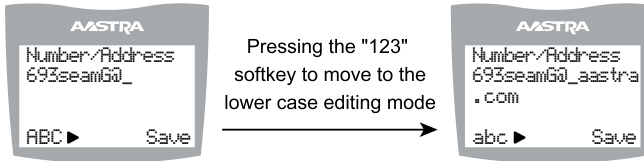
1	@	.	:	;	=	_	,	-	`	&	(	)
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As can be seen, these special characters accessible through the  key allow URI and IP address data entry.

**Note:** To enter the dot/period in the IP address format, the star  key is used when in numeric "123" editing mode. Alternatively, in text "abc" or "ABC" editing mode, use the  key to access the ".".


**"123" — "abc" — "ABC" softkey**

You can use the left soft key to toggle from numeric "123" editing mode to lower case text "abc" editing mode, to upper case text "ABC" editing mode.

**Switch from Numeric to Lower Case Alphanumeric Mode****Continued Editing in Lower Case Text mode Then Switch to Upper Case Text Mode****Cycle Edit Mode Back to Lower Case and Finish Address Entry****Adding Record to Directory**

The directory can store up to 50 names and numbers, which are displayed in alphabetical order. If no name is entered, the entries are sorted by number, at the beginning of the directory.

To add an item to the directory,

1. Press the  soft key from the idle mode as shown below.

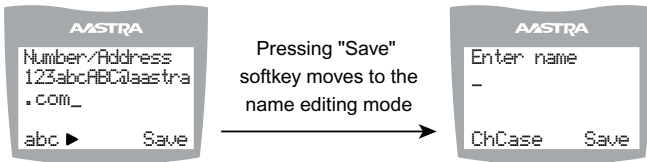


2. Press the Add softkey.



3. Enter the Number/Address information. Please refer to "Entering Characters and Numbers" on page 17.

4. Press **Save** to advance to the name entry screen.



5. Enter a name for the Number/ Address information. The name can have up to 15 characters, including spaces. Please refer to “**Entering Characters and Numbers**” on page 17.
6. Press the **Save** softkey. The display will show **Item saved**.

### Callers List – 480i CT Cordless Handset

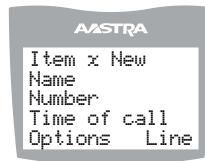
The Callers list stores the last 50 calls received. Items are stored in chronological order with new items being first in the list. Each call received is stored, no collapsing of records, and can be deleted or saved to a directory. Oldest call records are automatically removed from the list when the list is full and new items are received.

The following figure shows the header screen. On this screen, there is the title, the number of total items, the number of new items, instructions for viewing the items and two soft keys — **Exit** and **Delete**. The exit key quits the list and the delete key deletes the entire Callers list.



If there are no new items, then the **x New** line is not displayed. Once items are viewed, they are marked as old and do not show up in the new item count or in the new item scroll list.

Once in the list, items are displayed as shown in the next figure.



The above screen shows the item number, the name and number of the caller, and the time the call was received. Also shown are two soft keys — **Options** and **Line**. **Options** allow the user to save to directory or delete the record.

### **Dialing from Callers List**

To dial the caller back, the **Line** soft key can be pressed and the user is taken to the feature list where the configured lines can be chosen to place the call. The user simply scrolls to the desired line and presses **Select**. The call will then be placed on that line over the cordless link.

### **Saving Item to Directory**

From the **Options** softkey of the Callers List, scroll to the **Save to Directory** item and press the **Select** softkey. will be displayed upon successful saving to the directory.



### **Deleting Item from Callers List**

From the **Options** softkey of the Callers List, scroll to the **Delete** item and press the **Select** softkey.




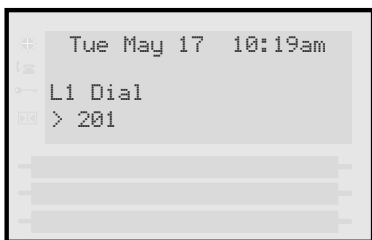
The user is prompted to confirm the delete action by pressing the **Delete** softkey.



## Making Calls from 480i CT Base Station






### Dialling a Number

First, take the phone off-hook by lifting the handset, pressing the  button or pressing a line/call appearance button. At the dial tone enter the number you wish to call. If you are unable to make calls within certain area codes, check with your system administrator for any toll restrictions placed on your extension that may restrict your access to long distance area codes or dialling prefixes.



### Using Handsfree Speakerphone

The handsfree feature allows you to speak to someone without using the handset or headset. Your phone must be in either the speaker or speaker/headset audio mode.




- To dial using handsfree, first press  and enter a number at the dial tone.
- To answer a call on the 480i CT Base Station using Handsfree, press .
- If in speaker audio mode, press  to switch between handsfree and handset.
- If in speaker/headset audio mode, press  to switch between handsfree and headset.
- When the handset is on hook, press  to disconnect a handsfree call.
- When handsfree is on, the speaker light turns on.

### Using a Headset

The 480i CT accepts headsets through the modular RJ22 jack on the back of the phone. Contact your telephone equipment retailer or distributor to purchase a compatible headset. Customers should read and observe all safety recommendations contained in headset operating guides when using any headset.



### Advanced Volume Controls for the Headset Mic

On the 480i CT, there are 3 options for the headset microphone volume. To change this volume:

1. Press .
2. Use  to scroll down the list of options to **7.Set Audio** and press the **Show** softkey, or you can press **7** to jump directly to this option.
3. Press the **Advanced** softkey.
4. Use  to scroll down the list or press the **Change** softkey to go to the next selection.
5. Press the **Done** softkey to save changes and exit.
6. If you do not wish to save changes, press the **Cancel** softkey.

**Note:** By default, the volume for the headset microphone is set to medium.

### To Make and Receive Calls Using a Headset:

1. Ensure that you have selected a headset audio mode by accessing the **Options** menu.
2. Plug the headset into the jack.
3. Press the  key to obtain a dial tone or to answer an incoming call. Depending on the audio mode selected from the **Options** menu, a dial tone or an incoming call will be received on either the headset or the handsfree speakerphone.
4. Press the  to end the call.



## Intercom (Yet to be Implemented)

To intercom another extension on the system:

1. Press the **lcom** .
2. Enter the extension number of the person you wish to intercom or the BLF softkey for that extension.
3. After a beep tone, your phone will automatically connect with the remote extension and you can speak through its speaker.
4. To cancel intercom, press **Goodbye** or the **Cancel** softkey.
5. When you are finished speaking, hang up the phone by placing the handset back on-hook or by pressing **Goodbye** or the line/call appearance button for the active call. When you hang up, the remote phone will also hang up.

## Redial

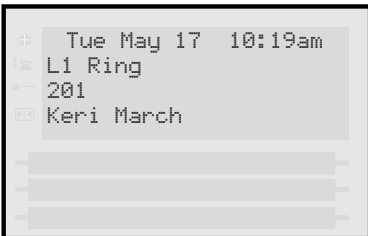
Press **Redial** to automatically dial the most recent number you dialed from the phone.

## Mute

Press **Mute** at any time to mute handset, headset or hands-free. The speaker light will flash slowly and you will hear the caller, but they will not hear you. Press **Mute** to toggle between mute and un-mute.

## Receiving Calls

When a call is ringing at your extension, you will see the Inbound Call Screen. The line/call appearance light will flash quickly for the incoming call.



## Answering an Incoming Call

To answer the call:

- For handsfree operation, press the Answer softkey or the line/call appearance button for the incoming call.
- Press **Handset** / **Headset** for handsfree or headset operation. The setting you have selected in the Options List for Audio Mode will determine whether the call goes to handsfree or headset operation.
- Lift the handset for handset operation.
- When you answer the call, the screen will change to the Connected State menu. If you cannot answer the call, the caller will go to voice mail (if voice mail has been configured for your extension).

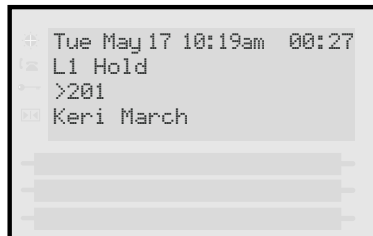
## Handling Calls

When you are connected to a call, you can use the softkeys or hard keys on the phone to transfer, conference or place a call on hold.

## Placing a Call on Hold

When you place a call on hold, only your phone can retrieve the call. To place a call on hold:

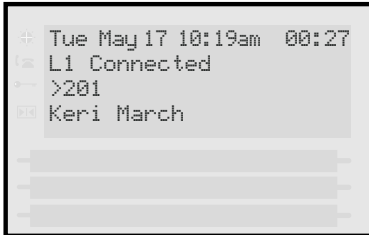
1. Connect to the call (if not already connected).
2. Press the **Hold** softkey



The line/call appearance light will begin to flash slowly. The screen will display "Hold..." with the line number the call is held on the phone.

### When on Hold

When you have been placed on hold, you cannot hear any voice from the caller. The call/line appearance light for the line you are on will remain solid to indicate that you are still connected.



### Automatic Hold

When juggling between calls, you do not have to press the hold button to go from one call to the next.

The phone will automatically put your current call on hold as soon as you press a new line/call appearance button.

### Retrieving a Held Call

If you have more than 1 call on hold, you can scroll through the held call information by pressing ◀ and ▶ navigation keys. To reconnect to a call press the line/call appearance button where that call is being held. If you press the call/line appearance button again, you will disconnect from the call.

### Transferring Calls

#### Blind Transfer

A blind transfer is when you transfer a call directly to another extension without consulting with the person receiving the call. To do this, simply complete the transfer before the receiving party answers the call.

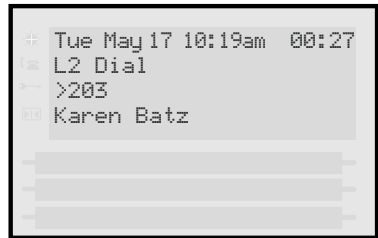
#### Consultative Transfer

You also have the option to consult with the person you are transferring the call to, before you complete the

transfer. To do this, simply remain on the line until the receiving party answers the call. After consulting with the receiving party, you can either complete the transfer or cancel the transfer to go back to the original call.

To transfer a call to another extension:

1. Connect to the call you wish to transfer (if not already connected).
2. Press **Xfer**.



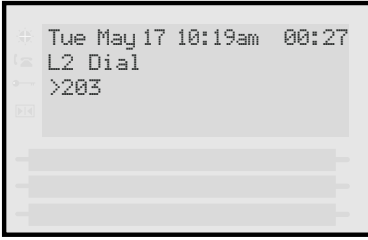
3. Press a line/call appearance button followed by the extension number of the person you wish to transfer the call to.
4. If you do not wish to transfer the call, press the line/call appearance button again to abort the transfer. This disconnects the new call, leaving the original call on hold. To go back to the original call, press the line/call appearance button for this call.
5. To complete the transfer, you can press **Xfer** again, or disconnect by placing the handset back on hook, pressing **Goodbye** or pressing the line/call appearance button for the active call.

### Conferencing Calls

The 480i CT phone system supports up to 3 parties (including yourself) in a conference call.

To create a conference call:

1. Connect to the first party you wish to include in the conference (if not already connected).
2. Press **Conf**.



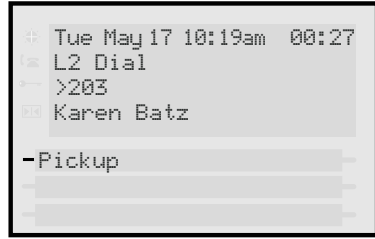
3. Press a line/call appearance button followed by the extension number of the person you wish to add to the conference.
4. Wait for the new party to answer. You can consult with the new party first before adding them to the conference.
5. If you do not wish to add the new party to the conference, press the line/call appearance button for this call. This disconnects the new party, leaving the original call on hold. To go back to the original call, press the line/call appearance button for this call.
6. To add the new party to the conference, press **Conf** again.
7. To drop the new party from the conference, press **Conf** one more time.
8. If you wish to exit the conference leaving the other two parties connected, disconnect by placing the handset back on-hook or by pressing **Goodbye**.

### Picking up Calls

Press the line/call appearance button for that call. If the phone is connected to a call, pressing one of the line/call appearance buttons will automatically place this call on hold before opening up a new line for the new call.

To pickup a call:

1. Press the line/call appearance button for that call.



2. Press **Goodbye** if you do not wish to pickup a call. This cancels the call pickup procedure.

### Ending Calls

To end a call, you first need to connect to the call if not already connected. Press **Goodbye** or the line/call appearance button of the active call. If connected through the handset, you can also place the handset back on hook to end the call.

### Additional Features




#### Services

The Services key **Services** on the 480i CT can access enhanced features and services provided by third parties. Check with your system administrator on how to configure this button. Availability of this feature is dependent on your phone system or service provider.

The button gives you access to additional services as they become available in the future. Built through the diverse web based language of XML, such future services could range from a Directory list or Call list, to weather, stocks, or flight information, etc.

## Making Calls from 480i CT Cordless Handset


### Pre-dialling a Number

Press the  key to obtain dial tone and use the Keypad to dial the number. You can also make a call by pre-dialling a number. Pre-dialling lets you view a number before you dial. If the number is correct, press the  key to dial the number. If the number is incorrect, use the  key or press down on the volume key to erase digits from right to left. Calls can also be made directly from the Directory.

### Using a Headset

The 480i CT cordless handset accepts headsets through the 2.5 mm audio jack on the bottom of the phone. Contact your telephone equipment retailer or distributor to purchase a compatible headset. Customers should read and observe all safety recommendations contained in headset operating guides when using any headset.

### Receiving Calls

When a call is ringing at your extension, you will see the Inbound Call screen. Press the  key to answer an incoming call or lift the handset out of the charging cradle.

### Call Privacy

In the 480i CT multi-handset system, it is possible to connect several cordless handsets together with each other or with the base as extensions to a call. This is just like an analog system with extension phones going off hook to join a call in progress. However, because this system is actually intended for use in an enterprise environment, some method of call privacy is required.

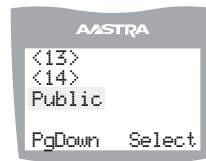
**All calls, base or handset, will begin in the "private" mode.** In this mode, no extensions will be allowed to join that handset or base call. There will be a user interface provided to toggle between the "private" and "public" modes.

#### "Public" Feature Key

A feature key will be available in the feature list for the user to press to toggle between the "private" and "public" modes for a call. Pressing the **Public** feature key in the feature list anytime during a call will put the call into the public call mode. When the call is in public call mode, the triangle indicator will light in front of the **Public** label in the feature list. This will also cause that feature key to appear on an available soft key but with a different label – **Private**. The user can then press the **Private** soft key to toggle the call back to private or he can navigate into the feature list and press the **Public** feature key. Either way, the triangle indicator will clear and the call will be back in private mode. The figures of this section demonstrate the UI.



Private Call in Progress



Feature List View with the Public Key Selected but not Invoked



Public Call in Progress



Feature List View with the Public Key Invoked but not Selected

In the figure above, the left screen depicts a call that is public. The user can press the **Private** soft key at any time to make the call private – i.e. no extensions allowed to join. In the right screen, the right pointing triangle indicates the current call is in public mode. The user could also select this feature key to return the call to private.

**Note:** Any local caller on the call can convert the call. For instance, if one cordless caller is on an external call, he can press the "Public" feature key to make the call public. At that point up to three other handsets can join in on the call. If any of those joining handsets presses the "Private" soft key, then the call is made private and no other users can join the call unless the call was made public again.

### Ending Calls

To end a call, you first need to connect to the call, if not already connected, and press the **End** key. You can also place the handset back on the charging cradle to end the call.

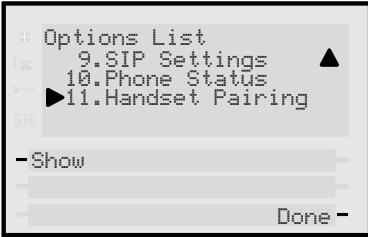
## Pairing and Unpairing Cordless Handset to Base

### Pairing Handset

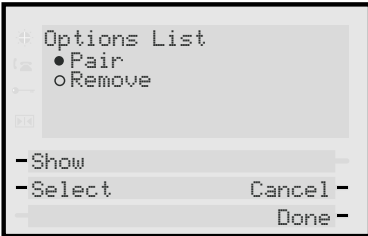
All handsets must be paired to a Base Station. This is performed from both the base and the cordless handset. Successful pairing will add the handset name to the handset list on the base and synchronize the handset list from the base to the newly paired handset. A total of 4 handsets can be paired to a single 480i CT base.

**Note:** When performing the handset pairing, it is recommended that the handset be within 3 feet of the 480i CT base.

1. On the 480i CT base press **Options**.
2. Select **11.Handset Pairing**

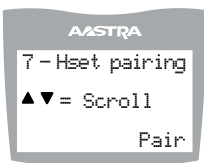


3. Select **Pair**



**Note:** If there are already 4 handsets paired to the base, you will not be able to select the **Pair** option.

4. On the 480i CT cordless handset press **M**.
5. Select **7- Hset pairing**

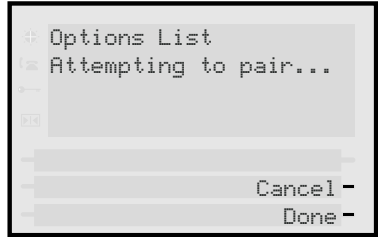


**Note:** If the handset has already been paired, the softkey will be labelled as **Remove** instead of **Pair**.

Ensure the handset being paired is within close proximity to the base. It is recommended that the handset be within 3 feet from the 480i CT base.

**Note:** It is recommended that both steps 6 and 7 be executed at the same time.

6. On the 480i CT base, select **Done**.



7. On the 480i CT cordless handset, press the softkey for **Pair**.



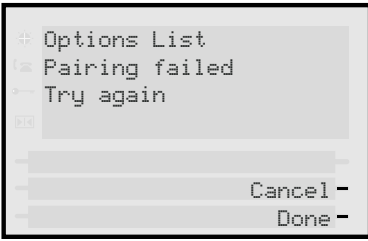
Upon success or failure of pairing, one of the following will be displayed on the handset and base, respectively:



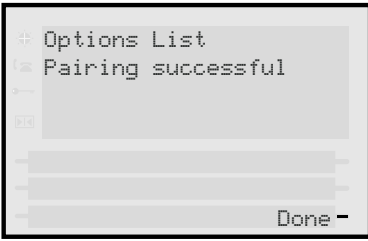
Successful Pairing of Handset



Failed Pairing of Handset



Pairing Failed Display



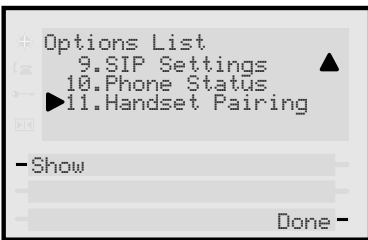
Pairing Success Display

### Unpairing Handset

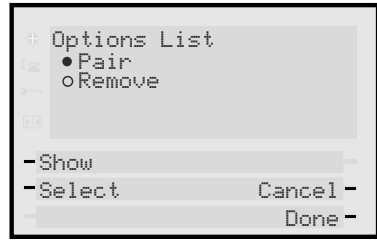
Unpairing of the handset can be done from either the cordless handset or the base. However, if the handset being removed is out of range from the base, the unpairing is only performed local to the device where the removal process was initiated.

If the unpairing is only successful from the local device, the unpairing procedure will need to be completed from the other device.

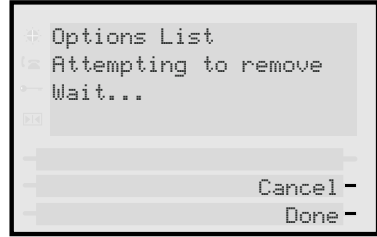
1. On the 480i CT base press **Options**.
2. Select **11.Handset Pairing**



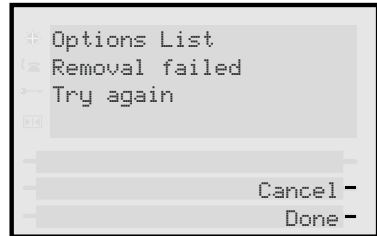
3. Select **Remove**



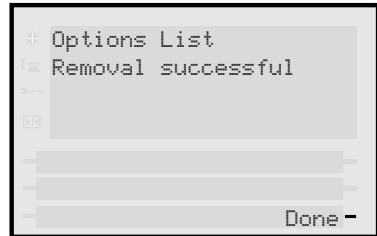
4. Select **Done**. The following will be displayed on the screen.



Upon success or failure of unpairing, one of the following screen will be displayed on the base:



Failed Removal



Successful Removal

5. If required, on the 480i CT cordless handset press **↓**.

6. Select 7- Hset Pairing



**Note:** If the handset is not paired, the softkey will be labelled as Pair instead of Remove.

7. Press the softkey for Remove.



Upon success or failure of unpairing, one of the following screen will be displayed on the handset:



Successful Removal Attempts



Failed Removal Attempts

**Note:** Unpairing of the handset will return it to factory default state. All data including the functions in the Feature key will be removed.



## Troubleshooting

This section describes solutions to some most commonly occurring problems.

### ***How to reset the 480i CT phone?***

#### **From the 480i CT Phone:**

1. Press the **Options** button to enter the Options List
2. Select option **10. Phone Status** to enter the Phone Status options list
3. Select option **3. Reset Phone**
4. Press the **Reset** softkey to reset the phone
5. Press the **Cancel** softkey to cancel the current operation

#### **From the web client:**

1. Click on the **Reset** sub-category under the **USER** main category
2. Enter the administrator level user name and password when prompted
3. On the web page that just opened click on the **Reset** button to reset the phone

### ***How to set the 480i CT phone to factory default?***

#### **From the 480i CT Phone:**

1. Press **Options** to enter the Options List.
2. Select option **10. Phone Status** to enter the Phone Status Options list.
3. Select option **4. Factory Default**.
4. Enter the administrator password and press the **Enter** softkey.
5. Press the **SetDefault** softkey to restore the 480i CT to the factory's default settings.
6. Press the **Cancel** softkey to cancel the operation.

#### **From the web client:**

- Currently this feature is not available from the web client.

### ***How to reset a user's password?***

If a 480i CT user has forgotten the password the following steps can be performed to reset the password.

#### **From the web client:**

1. Click on the **Password** sub-category under the **USER** main category
2. Enter the administrator level user password in the Current password field. Enter the new password for the user (the user's name for whom the password is being modified is displayed beside the User Name field on the current page). Re-enter the password to confirm the new password.
3. Click on the **Set Password** button to complete the operation.

## Appendix A: Parameter Settings

**Note:** The parameter settings in the <mac>.cfg configuration file take precedence over the parameter settings in the aastra.cfg. Any text following a number sign (#) on a line is considered to be a comment, unless the # is contained within double-quotes. Currently, boolean fields used are 0 for false and 1 for true.

### Network Settings:

This section consists of the network setting parameters and are self-explanatory.

*dhcp*

Flag to enable or disable DHCP.  
(0: Disable, 1: Enable)

*ip*

IP address of the device

*subnet mask*

The network's subnet mask

*default gateway*

The network's default gateway.

*dns1*

*dns2*

Primary and secondary dns server's IP addresses

*tftp server*

The IP address of the tftp server

*sip nat ip*

*sip nat port*

Currently we do not have nat support.  
Phone can make calls but cannot receive them.

*sip registration time*

Indicates in secs, how often the sip phone should send a re-register request to the sip server.

*example:*

*sip registration time: 300*

### Time Server Settings:

The following section contains the parameters to configure settings specific to the time server

*time server disabled*

Should the time server be disabled? 0: False, 1: True

*example:*

*time server disabled: 0*

*time reserved*

not used

*dst config*

flag to enable or disable time serving  
(0: disable, 1: enable)

*time server1*

primary time server's IP address.  
Can be an ntp too.

*time server2*

secondary time server's IP address.  
Can be an ntp too.

*time server3*

tertiary time server's IP address.  
Can be an ntp too.

*time format*

(0: 12hr, 1: 24hr)

*date format*

0: WWW MMM DD

1: DD-MMM-YY

2: YYYY-MM-DD

3: DD/MM/YYYY

4: DD/MM/YY

5: DD-MM-YY

6: MM/DD/YY

7: MMM DD

*example:*

*date format: 5*

*time zone name*

*time zone code*

The following are the name of the time zones and their corresponding time zone codes

AD-Andorra	CET	CA-Yukon	PST
AG-Antigua	AST	CH-Zurich	CET
AI-Anguilla	AST	CK-Rarotonga	CKS
AL-Tirane	CET	CL-Santiago	CLS
AN-Curacao	AST	CL-Easter	EAS
AR-Buenos Aires	ART	CN-China	CST
AS-Pago Pago	BST	CO-Bogota	COS
AT-Vienna	CET	CR-Costa Rica	CST
AU-Lord Howe	LHS	CU-Havana	CST
AU-Tasmania	EST	CY-Nicosia	EES
AU-Melbourne	EST	CZ-Prague	CET
AU-Sydney	EST	DE-Berlin	CET
AU-Broken Hill	CST	DK-Copenhagen	CET
AU-Brisbane	EST	DM-Dominica	AST
AU-Lindeman	EST	DO-Santo Domingo	AST
AU-Adelaide	CST	EE-Tallinn	EET
AU-Darwin	CST	ES-Madrid	CET
AU-Perth	WST	ES-Canary	WET
AW-Aruba	AST	FI-Helsinki	EET
BA-Sarajevo	EET	FJ-Fiji	NZT
BB-Barbados	AST	FK-Stanley	FKS
BE-Brussels	CET	FO-Faeroe	WET
BG-Sofia	EET	FR-Paris	CET
BM-Bermuda	AST	GB-London	GMT
BO-La Paz	BOT	GB-Belfast	GMT
BR-Noronha	FNT	GD-Grenada	AST
BR-Belem	BRT	GF-Cayenne	GFT
BR-Fortaleza	BRT	GI-Gibraltar	CET
BR-Recife	BRT	GP-Guadeloupe	AST
BR-Araguaina	BRS	GR-Athens	EET
BR-Maceio	BRT	GS-South Georgia	GST
BR-Sao Paulo	BRS	GT-Guatemala	CST
BR-Cuiaba	AMS	GU-Guam	CST
BR-Porto Velho	AMT	GY-Guyana	
BR-Boa Vista	AMT	GYTHK-Hong Kong	HKS
BR-Manaus	AMT	HN-Tegucigalpa	CST
BR-Eirunepe	ACT	HR-Zagreb	CET
BR-Rio Branco	ACT	HT-Port-au-Prince	EST
BS-Nassau	EST	HU-Budapest	CET
BY-Minsk	EET	IE-Dublin	GMT
BZ-Belize	CST	IS-Reykjavik	GMT
CA-Newfoundland	NST	IT-Rome	CET
CA-Atlantic	AST	JM-Jamaica	EST
CA-Eastern	EST	JP-Tokyo	JST
CA-Saskatchewan	EST	KY-Cayman	EST
CA-Central	CST	LC-St Lucia	AST
CA-Mountain	MST	LI-Vaduz	CET
CA-Pacific	PST		

LT-Vilnius EET  
 LU-Luxembourg CET  
 LV-Riga EET  
 MC-Monaco CET  
 MD-Chisinau EET  
 MK-Skopje CET  
 MQ-Martinique AST  
 MS-Montserrat AST  
 MT-Malta CET  
 MX-Mexico City CST  
 MX-Cancun CST  
 MX-Merida CST  
 MX-Monterrey CST  
 MX-Mazatlan MST  
 MX-Chihuahua MST  
 MX-Hermosillo MST  
 MX-Tijuana PST  
 NI-Managua CST  
 NL-Amsterdam CET  
 NO-Oslo CET  
 NR-Nauru NRT  
 NU-Niue NUT  
 NZ-Auckland NZS  
 NZ-Chatham CHA  
 PA-Panama EST  
 PE-Lima PES  
 PL-Warsaw CET  
 PR-Puerto Rico AST  
 PT-Lisbon WET  
 PT-Madeira WET  
 PT-Azores AZO  
 PY-Asuncion PYS  
 RO-Bucharest EET  
 RU-Kaliningrad EET  
 RU-Moscow MSK  
 RU-Samara SAM  
 RU-Yekaterinburg YEK  
 RU-Omsk OMS  
 RU-Novosibirsk NOV  
 RU-Krasnoyarsk KRA  
 RU-Irkutsk IRK  
 RU-Yakutsk YAK  
 RU-Vladivostok VLA  
 RU-Sakhalin SAK  
 RU-Magadan MAG  
 RU-Kamchatka PET  
 RU-Anadyr ANA  
 SE-Stockholm CET  
 SG-Singapore SGT

SI-Ljubljana CET  
 SK-Bratislava CET  
 SM-San Marino CET  
 SR-Paramaribo SRT  
 SV-El Salvador CST  
 TR-Istanbul EET  
 TT-Port of Spain AST  
 TW-Taipei CST  
 UA-Kiev EET  
 US-Eastern EST  
 US-Central CST  
 US-Mountain MST  
 US-Pacific PST  
 US-Alaska AKS  
 US-Aleutian HAS  
 US-Hawaii HST  
 UY-Monteideo UYS  
 VA-Vatican CET  
 YU-Belgrade CET

*example:*

*time zone name: US-Eastern*

*time zone code: EST*

*time zone minutes*

*The minutes that the zone is behind/ ahead(can be negative or positive integer)*

*example:*

*time zone minutes: 60*

*dst minutes*

*The minutes to which the daylight savings time should be adjusted by. Should be a positive integer.*

*The following are self-explanatory and take integer values:*

*dst start relative date*

*dst start month*

*dst start day*

*dst start week*

*dst start hour*

*dst end relative date*

*dst end month*

*dst end day*

*dst end week*

*dst end hour*

## SIP Settings:

The following section contains the settings specific to SIP.

*These parameters are self-explanatory and should be*

*configured accordingly*

*sip proxy ip  
sip proxy port  
sip registrar ip  
sip registrar port*

*sip line1 auth name  
sip line1 password  
sip line1 group name  
sip line1 user name  
sip line1 display name  
sip line1 screen name  
sip line2 auth name  
sip line2 password  
sip line2 group name  
sip line2 user name  
sip line2 display name  
sip line2 screen name  
sip line3 auth name  
sip line3 password  
sip line3 group name  
sip line3 user name  
sip line3 display name  
sip line3 screen name  
sip line4 auth name  
sip line4 password  
sip line4 group name  
sip line4 user name  
sip line4 display name  
sip line4 screen name*

*sip line1 mode  
sip line2 mode  
sip line3 mode  
sip line4 mode*

*sip dial plan  
The regular expression used to configure the dialplan.*

*example:*

*sip dial plan:  
"011xxxxxxxx | 101xxxx1xxxx  
xxxx | 1[2-9]xxxxxxxx | [2-  
9]xxxxxxxx | xx+\* | xx+# | \*xx  
| #xx+#"*

*Where,  
0, 1, 2, 3, 4, 5, 6, 7, 8, 9:  
is a Digit symbol*

*'x': matches any digit symbol (wildcard),  
'+' : matches zero or more of the preceding  
digit symbol or [] expression*

*[]: Symbol inclusive OR*

*'-': used only with [], represent a range of  
acceptable symbols*

*'\*', '#' match the keypad symbols.*

*sip digit timeout*

*Represents the time in seconds to  
configure the timeout between consecutive  
key presses.*

*example:  
sip digit timeout: 4*

## Softkey Settings:

The following section contains the softkey settings specific to SIP. On the 480i CT phone with SIP seven softkeys can be configured. These parameters can be configured either in the Aastra.cfg or the <mac>.cfg file. The syntax is as follows:

*softkeyN type: type  
softkeyN label: string  
softkeyN value: value*

*Where,*

*N: is the softkey number (1-7) on the  
phone that is being configured, type: can  
be any one of the following: line, blf  
(blinking light field), voicemail,  
forward or speedial, and*

*Value: is the value of the soft key (depends  
upon the softkey context)*

Examples:

*#This example will configure the first soft key and label the softkey #“Dial” with a “O” icon before it. When this softkey is pressed line #1 on the phone will go off-hook and will be ready for a number to be #dialled.*

*softkey1 type: line*

*softkey1 label: “Dial”*

*softkey1 value: 1*

*#This example will configure the second softkey and label the softkey*

*#“L1/1234” with a phone icon before it. This softkey shows the status #of Line 1 for the extension 1234.*

*#BLF status checking is not yet implemented*

*#softkey2 type: blf*

*#softkey2 label: “L1/1234”*

*#softkey2 value: 1/1234*

*#This example will configure the third softkey and label the softkey*

*#“ VMail”. When this softkey is pressed line 1 on the phone will go #off-hook and will dial 89 (\*89 is the number to access the voicemail at the IP PBX).*

*softkey3 type: voicemail*

*softkey3 label: VMail*

*softkey3 value: \*89*

*#This example will configure the phone to forward calls. Follow the #screen prompts to configure call forwarding to another device*

*#Call Forwarding functionality not yet implemented*

*#softkey4 type: forward*

*#softkey4 label: FWD*

*#softkey4 value: anything*

*#This example will configure the fifth softkey and label the softkey #“911”. When this softkey is pressed line 1 on the phone goes off-hook #and dials the number 911.*

*softkey5 type: speeddial*

*softkey5 label: “911”*

*softkey5 value: 911*

## Appendix B: Sample configuration files

This section consists of the sample configuration files necessary to configure the 480i CT phones. The general format is similar to configuration files used by several unix-based programs. Any text following a number sign (#) on a line is considered to be a comment, unless the # is contained within double-quotes. Currently, Boolean fields use 0 for false and 1 for true.

### aastra.cfg

*# This file contains generic settings for all phones.*

*time server disabled: 1*

*time server1: 131.107.1.10*

*dhcp: False*

*subnet mask: 255.255.255.0*

*default gateway: 192.168.0.1*

*tftp server: 192.168.0.129*

*#dns1: 192.168.0.5*

*sip proxy ip: 192.168.0.101*

*sip proxy port: 5060*

*sip registrar ip: 192.168.0.101*

*sip registrar port: 5060*

*#change this to suite your dial plan.*

*sip dial plan: "911 | [2-9]xxxxxxxx | xx+\* | xx+# | \*xx | #xx+#"*

*softkey1 type: line*

*softkey1 label: "pickup"*

*softkey1 value: 1*

*softkey2 type: blf*

*softkey2 label: "L1/1234 Status"*

*softkey2 value: 1/1234*

*softkey3 type: voicemail*

*softkey3 label: "Vmail"*

*softkey3 value: \*89*

*softkey4 type: speeddial*

*softkey4 label: "911"*

*softkey4 value: 911*

### <mac>.cfg

*# This file contains specific settings for the phone with the MAC*

*# address for which this file was named. Settings which have already*

*# appeared in aastra.cfg will be overridden by those in this file.*

*# Phone's IP address (may be necessary if you are not using DHCP)*

*#ip: 192.168.0.200*

*#line info*

*#line 1*

*sip line1 auth name: 5857501515*

*sip line1 password: 12345*

*sip line1 user name: 5857501515*

*sip line1 display name:*

*Display-L1-5857501515*

*sip line1 screen name:*

*ScreenName-L1-5857501515*

*#line 2*

*sip line2 auth name: 5857501515*

*sip line2 password: 12345*

*sip line2 user name: 5857501515*

*sip line2 display name:*

*Display-L1-5857501515*

*sip line2 screen name:*

*ScreenName-L1-5857501515*

*#line 3*

*#Note: This line uses a different extension number*

*sip line3 auth name: 7110*

*sip line3 password: 12345*

*sip line3 user name: 7110*

*sip line3 display name:*

*Display-L3-5857501515*

*sip line3 screen name:*

*ScreenName-L3-5857501515*

*#line 4*

*sip line4 auth name: 5857501515*

*sip line4 password: 12345*

*sip line4 user name: 5857501515*

*sip line4 display name:*

*Display-L4-5857501515*

*sip line4 screen name:*

*ScreenName-L4-5857501515*

## Limited Warranty

Aastra Telecom warrants this product against defects and malfunctions during a one (1) year period from the date of original purchase. If there is a defect or malfunction, Aastra Telecom shall, at its option, and as the exclusive remedy, either repair or replace the telephone set at no charge, if returned within the warranty period.

If replacement parts are used in making repairs, these parts may be refurbished, or may contain refurbished materials. If it is necessary to replace the telephone set, it may be replaced with a refurbished telephone of the same design and color. If it should become necessary to repair or replace a defective or malfunctioning telephone set under this warranty, the provisions of this warranty shall apply to the repaired or replaced telephone set until the expiration of ninety (90) days from the date of pick up, or the date of shipment to you, of the repaired or replacement set, or until the end of the original warranty period, whichever is later. Proof of the original purchase date is to be provided with all telephone sets returned for warranty repairs.

### Exclusions

Aastra Telecom does not warrant its telephone sets to be compatible with the equipment of any particular telephone company. This warranty does not extend to damage to products resulting from improper installation or operation, alteration, accident, neglect, abuse, misuse, fire or natural causes such as storms or floods, after the telephone is in your possession.

Aastra Telecom shall not be liable for any incidental or consequential damages, including, but not limited to, loss, damage or expense directly or indirectly arising from the customers use of or inability to use this telephone, either separately or in combination

with other equipment. This paragraph, however, shall not apply to consequential damages for injury to the person in the case of telephones used or bought for use primarily for personal, family or household purposes.

This warranty sets forth the entire liability and obligations of Aastra Telecom with respect to breach of warranty, and the warranties set forth or limited herein are the sole warranties and are in lieu of all other warranties, expressed or implied, including warranties or fitness for particular purpose and merchantability.

### Warranty Repair Services

Should the set fail during the warranty period;

**In North America**, please call 1-800-574-1611 for further information.

**Outside North America**, contact your sales representative for return instructions.

You will be responsible for shipping charges, if any. When you return this telephone for warranty service, you must present proof of purchase.

### After Warranty Service

Aastra Telecom offers ongoing repair and support for this product. This service provides repair or replacement of your Aastra Telecom product, at Aastra Telecom's option, for a fixed charge. You are responsible for all shipping charges. For further information and shipping instructions;

**In North America**, contact our service information number: 1-800-574-1611.

**Outside North America**, contact your sales representative.

**Note:** Repairs to this product may be made only by the manufacturer and its authorized agents, or by others who are legally authorized. This restriction applies during and after the warranty period. Unauthorized repair will void the warranty.