

RELEASE # 1.0 ADMINISTRATOR GUIDE

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Overview

This *SIP 480i IP phone Administration Guide* provides information on the basic network setup that is required for the *SIP 480i IP phone. It also includes* details on the functioning and configuration of the 480i phone.

General Requirements

- A SIP based IP PBX system or network installed and running with a number created for the new 480i phone.
- SIP standard "RFC 3261"
- Access to a Trivial File Transfer Protocol (TFTP) server.
- 802.3 Ethernet/Fast Ethernet LAN.
- Category 5/5e straight through cabling.
- Power over Ethernet (PoE) power supply (optional accessory – necessary only if no inline power is provided on the network).

About this Guide

This guide targets network administrators, system administrators, developers and partners who need to understand how to install the 480i on a SIP network. This guide contains information that is at a technical level more suitable for system or network administrators. Prior knowledge of IP Telephony concepts is recommended.

This guide complements the Aastra 480i Installation Guide and the Aastra SIP 480i IP Phone User Guide .

- Aastra 480i Installation Guide contains installation and set-up instructions, information on general features and functions, and basic options list customization. Included with the phone.
- Aastra SIP 480i IP Phone Administration Guide – explains how to set the phone up on the network, as well as advanced configuration instructions for the 480i. This guide contains information that is at a technical level more suitable for a system or network administrator.
- *Aastra SIP 480i IP Phone User Guide* – explains the most commonly used features and functions for an end user.

Methods of Installation

The firmware set up and installation for the 480i can be done through the Options List available directly from the phone or through the **Aastra 480i Web Client** web interface. When the 480i is initialized for the first time, DHCP is enabled by default. The DHCP server passes information to the 480i so that it can configure itself for subsequent IP PBX addresses and normal runtime operations.

The following considerations must be made before connecting the 480i phone to the network:

- 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 the section "Configuring the 480i 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.
- Every PBX system that interacts with the 480i phones requires adherence to the SIP Standard.

To find out how to hook up the cabling to your 480i phone, please refer to the *Aastra 480i Installation Guide*.

480i IP Phone Set up

When the 480i 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 are: "firmware.st" "aastra.cfg" and "<mac>.cfg". The settings of the 480i phone, as well as the softkeys and the line keys, can be configured through the configuration files. Please refer to Appendix A for details on the parameters that can be set for the 480i phone. Please refer to Appendix B for sample configuration files with all the basic parameters that need to be set in order to register the IP phone at the PBX.

The following steps illustrate a typical 480i phone setup:

- 1. If DHCP is disabled, manually enter the TFTP server's IP address. For details on how to set the TFTP server setting for the 480i, please refer to the section "Configuring the 480i IP Phone".
- 2. Copy the firmware file "firmware.st" to the root directory of the TFTP server. This firmware file is downloaded only when it is different 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.
- Note: <mac> represents the actual MAC address of your phone which must be input ie 00085D030996.cfg

The 480i's Options List

- **1.** Press the <u>Options</u> 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 an 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 <u>Goodbye</u> button at any time to exit without saving the changes

Administrator Level Options

Some options in the phone's options list are considered administrator level options and require the administrator user name and password. When attempting to access administrator level options, the phone will prompt for the administrator password before allowing access. The default password for the administrator is "22222". For all other phone options, please refer to the *Aastra 480i Installation Guide*.

The administrator level options in the phone's Options List are:

- "8.Network"
- "9.SIP Settin9s"
- "4.Factory Default" found under option "10.Phone Status"

Network:

If DHCP is enabled, all the Network settings are automatically configured. The 480i'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 disabled the following network settings can be configured manually:

1. DHCP

This 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

This is 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

This is the TFTP server's IP address.

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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

This is the IP address of the proxy server.

2. Proxy Port

This is the SIP proxy server's port number. By default this number is set to 5060.

3. Registrar IP

This is the IP address of the SIP registrar.

4. Registrar Port

SIP registrar's port number. By default this is set to 5060.

5. User Name

This is used in the name field of the SIP URI for the 480i phone and for registering the 480i at the registrar.

6. Display Name

This is used in the display name field of the From SIP header field. Some IP PBX systems use this as the caller's ID and some may overwrite this with the string that is set at the PBX system.

7. Auth Name

The authorization name that will be used in the username field of the Authorization header field of the SIP REGISTER request.

8. Password

The password that is used to register at the registrar.

Phone Status:

The following options display the phone's status or allow you to power cycle the phone or reset the phone to its factory default settings.

1. Network Status

This 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.

• IP Addr Shows the IP address of the phone

• MAC Addr The MAC or the

hardware address of the 480i's Ethernet card

2. Firmware Version

This option displays information about the firmware that is currently installed on the 480i.

3. Reset Phone

This option lets you reboot the phone. A reset may be necessary when:

- There is a change in your network, **OR**
- To re-load the configuration information modified through the configuration files to the phone, **OR**
- If the settings for the 480i on the IP PBX system had been modified.

4. Factory Default

This option lets you reset the phone back to the factory default settings, including the network settings. Performing this operation will result in losing all user modified settings.

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

The Aastra 480i Web Client

To access the Aastra 480i Web Client, open your web browser (supports Internet Explorer and Gecko engine based browsers like Firefox, Mozilla or Netscape) 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 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 the user level or the administrator level user name and password. For more information, refer to the *Aastra SIP 480i IP Phone User Guide*.
- The ADMIN category contains administrator only configurable sub-categories: Network, Firmware and SIP Settings. This section is accessed through the admin level user name and password. You will be prompted for this information when one of these options is selected. For more information, refer to the section "480i IP Phone Configuration" of this document

The default for the administrator user name is "admin" and the password is "22222". For a user, the default user name is "user" and the password field is left blank. The user level password can be changed using the web client.

480i IP Phone Configuration

The Network and SIP options within the 480i phone can be configured from the phone or from the **Aastra 480i Web Client** web interface. Administrator level options are password protected in both the phone and the web interface.

Network

DHCP automatically sends the IP address, Subnet Mask and Gateway network (also DNS and FTP Server) information to the 480i phone during initialization when the phone is first powered up or reset. By default, the DHCP setting is enabled. The network settings cannot be changed when DHCP is used, so DHCP must be set to "Off" in order to manually change these settings.

Turn DHCP On or Off

From the 480i Phone:

- **1.** Press the <u>Options</u> button to enter the Options List.
- 2. Select option 8. Network.
- **3.** Enter the administrator's password. The default password is 22222.
- 4. Press the Enter softkey.
- 5. Select option 1. DHCP.
- Press the Change softkey to indicate whether DHCP should be used or not.
- 7. Press Done to save the changes.

From the Web Client:

- 1. Click on the Network sub-category under the ADMIN main category.
- Enter the administrator's user name and password (the default user name is "admin" and password is "22222").

- 3. In the web page that has just opened, check the Use DHCP check box to use DHCP and uncheck to indicate that you do not want to use DHCP.
- Click on the Set Values button to save the changes that you just made.

Manually Configure Network Settings

If you are not using DHCP, you need to configure the network settings for the phone manually. From the 480i Phone:

- 1. Press the <u>Options</u> button to enter the Options List.
- 2. Select option 8. Network.
- **3.** Enter the administrator's password. The default 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.
- 8. Press Done to save the changes.

When an IP address has been assigned to the phone, you have the option to either continue configuring the 480i through the *Options* button on the phone or to start using the **Aastra 480i Web Client**. See the section "**The Aastra 480i Web Client**" within this guide for details. From the Web Client:

- 1. Click on the Network sub-category under the ADMIN main category.
- 2. Enter the administrator's user name and password (the default user name is "admin" and password is "22222").
- **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.

TFTP Server Settings

The 480i phone uses the TFTP to download updates of the phone's firmware and configuration files. You must set the TFTP server address in the phone.

From the 480i Phone:

- **1.** Press the <u>Options</u> button to enter the Options List.
- 2. Select option 8. Network.
- **3.** Enter the administrator's password. The default password is 22222.
- Select option 6. TFTP Server to change the TFTP server.

From the Web Client:

- 1. Click on the Network sub-category under the ADMIN main category.
- Enter the administrator user name and password (the default user name is "admin" and password is "22222").
- **3.** In the TFTP field, enter the IP address of the TFTP server.
- Click on the Set Values button to save the changes that you just made.

SIP settings

The 480i uses the information in the SIP settings to register at the IP PBX. To configure the SIP settings:

From the 480i Phone:

- 1. Press the <u>Options</u> button to enter the Options List.
- 2. Select option 9. SIP Settings.
- **3.** Enter the administrator's password. The default password is 22222.
- **4.** Select options 1-4 to change the information about the registrar and the proxy server.
- 5. Select option 5. User Name to change the user name.
- 6. Select option 6. Screen Name to change the screen name.
- 7. Select option 7. Auth. Name to change the authorization name.
- 8. Select option 8. Password to change the user's password.

From the Web Client:

- 1. Click on the SIP Settings sub-category under the ADMIN main category.
- Enter the administrator user name and password (the default user name is "admin" and password is "22222").
- **3.** In the web page that just opened enter the appropriate information.
- Click on the Set Values button to save the changes that you just made.



Note: At this point modifications performed to the User name, Screen name, Authentication name and Password affect line 1 of the 480i only. Modifications to the other lines should be done through the <mac>.cfg file. The NAT IP Address and NAT Port are currently not supported and will have no effect when set.

Setting Parameters through Configuration Files

The following are the parameters that can be used to configure the 480i phone through the configuration files – aastra.cfg and <mac>.cfg. The "aastra.cfg" file configures the settings server wide, while the <mac> configures only the phones with the MAC address for which the file is named. The settings in the "aastra.cfg" file will be overriden by the settings which also appear in the <mac> cfg file.

The following section contains the parameters to configure the network settings.

Parameter – <i>dhcp</i>	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	Enabling DHCP will populate most of the network information. The DHCP server should serve the network information that the 480i requires. If the 480i is unable to get any required information then it should be entered manually. Parameters affected: ip. Use "0" to disable DHCP and "1" to enable DHCP
Format	Integer
Default Value	1
Range	0 or 1
Example	dhcp: 1
Parameter – <i>ip</i>	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	This parameter assigns a static IP address to the 480i device.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	ip: 192.168.0.25
Parameter – subnet mask	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	The subnet mask IP address.
Format	IP address
Default Value	255.255.255.0
Range	Not Applicable
Example	subnet mask: 255.255.255.224

Parameter –	Configurable through the 480i's Options List,
default gateway	the Aastra 480i web client or through the
	configuration files
Description	The IP address of the network's gateway or
	the router IP address
Format	IP address
Default Value	1.0.0.1
Range	Not Applicable
Example	default gateway: 192.168.0.1
Parameter – <i>dns1</i>	Configurable through the 480i's Options List,
	the Aastra 480i web client or through the
	configuration files
Description	Primary domain name servers' IP address.
	For any of the IP address settings on the 4801
	of an IP address. With the help of the domain
	name servers the domain names for such
	parameters can then be resolved to their
	corresponding IP addresses.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	dns1: 192.168.0.5
Parameter – <i>dns2</i>	Configurable through the 480i's Options List,
	the Aastra 480i web client or through the
	configuration files
Description	Secondary domain name servers' IP address.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	dns2: 192.168.0.6

Parameter – <i>tftp server</i>	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	The TFTP server's IP address. If DHCP is enabled and the DHCP server provides the information, this field is automatically populated. Use this parameter to change the IP address of the TFTP server. This will become effective after this configuration file has been downloaded into the phone.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	tftp server: 192.168.0.130
Parameter – <i>sip rtp port</i>	Configurable through the configuration files only
Parameter – <i>sip rtp port</i> Description	Configurable through the configuration files only Indicates the port through which the RTP packets will be sent to. The RTP port is used for sending DTMF tones and for the audio stream. Your network administrator may close some ports for security reasons. You may want to use this parameter to send RTP data using a different port.
Parameter – sip rtp port Description Format	Configurable through the configuration files only Indicates the port through which the RTP packets will be sent to. The RTP port is used for sending DTMF tones and for the audio stream. Your network administrator may close some ports for security reasons. You may want to use this parameter to send RTP data using a different port. Integer
Parameter – sip rtp port Description Format Default Value	Configurable through the configuration files only Indicates the port through which the RTP packets will be sent to. The RTP port is used for sending DTMF tones and for the audio stream. Your network administrator may close some ports for security reasons. You may want to use this parameter to send RTP data using a different port. Integer 3000
Parameter – sip rtp port Description Format Default Value Range	Configurable through the configuration files only Indicates the port through which the RTP packets will be sent to. The RTP port is used for sending DTMF tones and for the audio stream. Your network administrator may close some ports for security reasons. You may want to use this parameter to send RTP data using a different port. Integer 3000 Not Applicable

Setting Parameters – Time Server Settings

The following section contains the parameters to configure settings specific to the timeserver.

Parameter – time server disabled	Configurable through the 480i's Options List or the configuration files
Description	This parameter enables or disables the time server. This parameter affects the time server1, time server2 and time server3 parameters. Use "0" to enable time server and "1" to disable time server.
Format	Integer
Default Value	0
Range	0 or 1
Example	Time server disabled: 0

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Parameter – time server1	Configurable through the 480i's Options List or the configuration files.
Description	The primary time server's IP address. If the time server is enabled, the value for time server1 will be used to request the time from.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	time server1: 192.168.0.5

Parameter – time server2	Configurable through the configuration files only
Description	The secondary time server's IP address. If the time server is enabled, and the primary time server is not configured or cannot be accessed the value for time server2 will be used to request the time from.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	time server2: 192.168.0.5

Parameter – <i>time server</i> 3	Configurable through the configuration files only
Description	The tertiary time server's IP address. If the time server is enabled, and the primary and secondary time servers are not configured or cannot be accessed the value for time server3 will be used to request the time from.
Format	IP address
Default Value	0.0.0.0
Range	Not Applicable
Example	time server3: 192.168.0.5

Parameter – <i>time format</i>	Configurable through the 480i's Options List or the configuration files
Description	This parameter changes the time to 12 hour or 24 hour format. Use "0" for the 12 hour format and "1" for the 24 hour format.
Format	Integer
Default Value	0
Range	0 or 1
Example	time format: 0
Parameter – date format	Configurable through the 480i's Options List or the configuration files
Description	This parameter allows the user to change the date to various formats.
Format	Integer
Default Value	0
Range	 0-7 Following table shows the format for the corresponding <i>date format</i> values: 0: WWW MMM DD 1: DD-MMM-YY 2: YYYY-MM-DD 3: DD/MM/YYY 4: DD/MM/YY 5: DD-MM-YY 6: MM/DD/YY 7: MMM DD
Example	date format: 7

Setting Parameters – SIP Authentication

The following parameters are the settings specific to SIP authentication.

Parameter – <i>sip proxy ip</i>	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	A SIP proxy is a server that makes and forwards requests generated by the 480i to the targeted user. This parameter's IP address will be the address of the proxy server that the 480i will use to send all SIP requests to
Format	IP address or fully qualified host name
Default Value	0.0.0.0
Range	Not Applicable
Example	sip proxy ip: 192.168.0.101
Parameter – sip proxy port	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	The proxy server's port number
Format	Integer
Default Value	5060
Range	Not Applicable
Example	sip proxy port: 5060
Parameter – sip registrar ip	Configurable through the 480i's Options List, the Aastra 480i web client or through the configuration files
Description	A SIP registrar is a server that maintains the location information of the 480i phone. This parameter's IP address will be the address of the registrar that the 480i will use to send <i>REGISTER</i> requests to
Format	IP address or fully qualified host name
Default Value	0.0.0.0
Range	Not Applicable
Example	sip registrar ip: 192.168.0.101

Parameter –	Configurable through the 480i's Options
sip registrar port	List, the Aastra 480i web client or through
	the configuration files
Description	The registrar's port number
Format	Integer
Default Value	5060
Range	Not Applicable
Example	registrar port: 5060
Parameter –	Configurable through the configuration
sıp dıgit timeout	files only
Description	Represents the time in seconds to configure
	the timeout between consecutive key
E	Leterer
Format	Integer
Default Value	4
Range	Not Applicable
Example	sip digit timeout: 6
Parameter –	Configurable only through the
sip registration period	configuration files.
Description	The time in seconds that the 480i should use to send re-registration requests to the
	registrant.
	the expires header field value in the SIP
	REGISTER request.
Format	Integer
Default Value	3600
Range	Not Applicable
Example	sip registration period: 3600

Parameter – sip session timer	Configurable only through the configuration files
Description	This session timer parameter is the time in seconds that the 480i uses to send periodic re- <i>INVITE</i> requests to keep a session alive. The proxy uses these re- <i>INVITE</i> requests to maintain the status' of the connected sessions.
Format	Integer
Default Value	0
Range	Not Applicable
Example	sip session timer: 30
Parameter – sip lineN auth name	Configurable through the configuration files. Configurations done through the 480i's Options List or the Aastra 480i web client affect the first line only.
Description	The authorization name that will be used in the username field of the Authorization header field of the <i>SIP REGISTER</i> request.
Format	Text
Default Value	Not Applicable
Range	<i>N</i> in the <i>sip lineN</i> auth name ranges from 1 to 9
Example	sip line1 auth name: 1001
Parameter – sip lineN password	Configurable through the configuration files. Configurations done through the 480i's Options List or the Aastra 480i web client affect the first line only.
Description	The password that will be used to register at the registrar.
Format	Text
Default Value	Not Applicable
Range	<i>N</i> in the <i>sip lineN</i> password ranges from 1 to 9
Example	sip line1 password: 12345

Parameter – sip lineN user name	Configurable through the configuration files. Configurations done through the 480i's Options List or the Aastra 480i web client affect the first line only.
Description	The value for this parameter is used in the name field of the <i>SIP URI</i> for the 480i phone and for registering the 480i at the registrar.
Format	Text
Default Value	Not Applicable
Range	<i>N</i> in the <i>sip lineN</i> user name ranges from 1 to 9
Example	sip line1 user name: 1001
Parameter – sip lineN display name	Configurable only through the configuration files.
Description	This is used in the display name field of the <i>From</i> SIP header field. Some IP PBX systems use this as the caller's ID and some may overwrite this with the string that is set at the PBX system.
Format	Text
Default Value	Not Applicable
Range	N in the <i>sip lineN</i> display name ranges from 1 to 9
Example	sip line1 display name: Joe Smith
Parameter – sip lineN screen name	Configurable through the configuration files. Configurations done through the 480i's Options List or the Aastra 480i web client affect the first line only.
Description	This is used to display text on the screen of the phone. You may want to set this parameter to display the phone user's name.
Format	Text
Default Value	Not Applicable
Range	<i>N</i> in the <i>sip lineN</i> screen name ranges from 1 to 9
Example	sip line1 screen name: Joe Smith

Setting Parameters – Softkey Settings

This section contains the softkey parameters that can be configured on the 480i phone. There are eighteen softkeys that can be configured. These parameters can be configured either from the Aastra.cfg or the <mac>.cfg file. Softkeys can be configured as either speed dials or as additional call/line appearances.

Parameter –	Configurable through the configuration	
softkeyN type	files only	
Description	The type of soft key that will be	
	configured to.	
Format	Text	
Default Value	Not Applicable	
Range	<i>line</i> or <i>speeddial</i> . <i>N</i> in the <i>softkeyN</i> type ranges from 1 to 18	
Example	softkey1 type: line	
	softkey2 type: speeddial	
Parameter –	Configurable through the configuration	
softkeuN lahel	files only	
Description	The text label that should be displayed for	
	the soft key. If the soft key is of <i>line</i> type an	
	icon appears beside the soft key that	
	indicates the status of the line that this soft	
	indicates the status of the line that this soft	
	indicates the status of the line that this soft key is configured to.	
Format	indicates the status of the line that this soft key is configured to. Text	
Format Default Value	indicates the status of the line that this soft key is configured to. Text Not Applicable	
Format Default Value Range	indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less	
Format Default Value Range	indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a	
Format Default Value Range	indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey	
Format Default Value Range	indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey true is guargested. V in the softwall lead	
Format Default Value Range	 indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey type is suggested. N in the softkeyN label 	
Format Default Value Range	 indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey type is suggested. N in the <i>softkeyN</i> label ranges from 1 to 18 	
Format Default Value Range Example	 indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey type is suggested. N in the softkeyN label ranges from 1 to 18 softkey1 label: "Line 9" 	
Format Default Value Range Example	indicates the status of the line that this soft key is configured to. Text Not Applicable Sequence of ascii characters. A width less than 11 characters for line softkey type and a width less than 9 for the speeddial softkey type is suggested. <i>N</i> in the <i>softkeyN</i> label ranges from 1 to 18 softkey1 label: "Line 9" softkey2 label: "info"	

Parameter – softkeyN value	Configurable through the configuration files only
Description	If the soft key is of type, <i>line</i> then value should be the line number that this soft key represents. If the softkey is of type, <i>speeddial</i> then value should be the number to speed dial.
Format	Text
Default Value	Not Applicable
Range	<i>line or speeddial. N</i> in the <i>softkeyN</i> value ranges from 1 to 18
Example	softkey1 value: 9
	softkey2 value: 411

Firmware Upgrade

The 480i phone uses a TFTP server to download configuration files and firmware. The TFTP server should be ready and be able to accept connections anonymously (without a requirement for a user name and password). See **Appendix B** for information on setting up a TFTP server.

You can download the firmware stored on the TFTP server in one of two ways, by either resetting the phone through the options list of the 480i or by activating a firmware download through the web client. Resetting the phone will force the phone to check for both firmware and configuration files stored on the TFTP server.

Warning: Do not reset or turn off the phone until the download is complete.

From the 480i Phone:

- **1.** Press the <u>Options</u> button to enter the Options List.
- 2. Select option 10. Phone Status to enter the Phone Status option.
- 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 Firmware sub-category under the ADMIN main category.
- Enter the administrator user name and password (the default user name is "admin" and password is "22222").

- 3. In the Firmware field, enter the name of the firmware file that the phone should be upgraded with, as shown in Figure 1. This name must match the actual name of the firmware file residing on your TFTP server.
- 4. In the TFTP server IP field enter the IP address of the computer where the TFTP server is located.
- 5. After entering the information into the appropriate fields click on the "Download Firmware" button. This will start the upgrade process. If the upgrade was successful you will be presented the successful message as shown in Figure 2.







Troubleshooting

This section describes solutions to some most commonly occurring problems.

Why does my phone display "Application missing"?

If you have experienced networking issues while the phone was downloading the application from the TFTP server, it is possible that the phone can no longer retrieve the required firmware file. In the event that the phone is no longer able to communicate with the TFTP server in its attempt to re-download the firmware and the phone cannot locate the application locally, this message will be displayed.

The phone will display the following: "Recovery web-client at: *<IP Address>*". The IP Address displayed is the IP address of the phone. If the phone is unable to receive an IP from the DHCP server or has lost its record of its static IP, the phone will auto-assign itself the default IP 192.168.0.50.

To recover the firmware for your phone in this circumstance, please perform the following:

- 1. Launch your web browser on your computer. Please note that your computer will need to be on the same network as your IP phone.
- 2. In the URL, type: "http://<*IP Address>*" (where IP Address is the IP Address displayed on the phone). Your browser will launch the **Aastra 480i IP Phone Firmware Recovery** page.
- **3.** Enter the name of the firmware file that is on the TFTP server and ready for download. E.g. "firmware.st".
- **4.** Enter the IP of the TFTP server.

5. Press the Download Firmware button.

Please ensure that the TFTP server is running and accessible on the network. If the firmware file is correctly located on the running TFTP server, the phone will locate the file and reload the application onto the phone.

Why does my phone display the "No Service" message?

The phone will display the "No Service" message if the SIP settings have not been set up correctly. Check that the SIP settings are correct in the phone. If using the configuration files, this could be a formatting or syntax error. For example, when entering the parameter "sip line1 user name: 5551231234", you cannot use formatting symbols such as "-" as in "555–123–1234" to format the number or the phone will not recognize it.

How to reset the 480i phone?

From the 480i phone:

- 1. Press the <u>Options</u> button to enter the Options List.
- 2. Select option 10. Phone Status to enter the Phone Status option.
- 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. On the web page that just opened click on the Reset button to reset the phone.

How to set the 480i phone to factory default?

From the 480i phone:

- **1.** Press the <u>Options</u> button 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.
- Press the Default softkey to restore the 480i to the factory's default settings.
- 6. Press the Cancel softkey to cancel the operation.

How to reset a user's password?

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

From the web client:

- 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: Configuring the 480i at the Asterisk IP PBX

The following configuration illustrates how to create a user with an extension to make and receive calls using the Asterisk as the PBX. This configuration is defined in the "sip.conf" file present along with the other configuration files that are created when Asterisk is installed. Usually, the configuration files can be found at the "/etc/asterisk" directory.

;This is used in the "extension	is.conf" file to identify this
;physical phone when issuing	Dial commands.
[phone1]	
;The type to use for the 480i is	s "friend".
;"Peer" is used when the Aste	risk is contacting a proxy,
;"user" is used for phones tha	t can only make calls
;and "friend" acts as both a pe	eer and a user.
type=friend	
;If your host has an entry in y	our DNS then you just enter the
;machines name in the host=	Field.
host=dynamic	
defaultip=192.168.1.1	;default IP address that the phone is
5	;configured to
;The password that phone1 wi	ill use to register with this PBX
secret=1234	0
dtmfmode=rfc2833	;Choices are inband, rfc2833, or info
mailbox=1000	Mailbox for message waiting indicator
;If a phone is not in a valid co	ntext you will not be
;able to use it. In this example	' sip' is used. You can use
;whatever you like, but make s	sure they are the same, you will
;need to make an entry in you	r extensions.conf file (which we
;will get to later)	
context=sip	
callerid="Phone 1" <1234>	

After this is defined in the "sip.conf" file, some information has to be entered in the "extensions.conf" file present in the same directory as the "sip.conf" file. The following definition in the file under the [sip]section/context completes defining the extension for the 480i phone.

exten => 1234,1,Dial(SIP/phone1,20)

This definition completes configuring the 480i phone at the IP PBX system.

To verify whether the extension has been successfully registered at the IP PBX system, enter the Asterisk console and reload Asterisk. Use the command "sip show peers" at the console. This will display the extensions that are registered at the IP PBX system.

Name/username	Host	Mask	Port	Status
phone1/phone1	192.168.1.1	(D) 255.255.255.255	5060	Unmonitored

This completes the basic set-up for the 480i phone with 1234 extension at the Asterisk IP PBX system. Refer to Asterisk documentation for set-up on extended or advanced features such as voice mail and call forwarding, etc.

Appendix B: Sample Configuration Files

This section consists of the sample configuration files necessary to configure the 480i 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

<pre>#</pre>	#	Generic SIP Sample Configuration File
 # Date: December 16th, 04 # File: Sample "aastra.cfg" file # Notes: # The general format used here is similar to configuration files # used by several UNIX-based programs. Any text following a number # sign (#) is considered to be a comment, unless the number sign is # contained within double-quotes ("#") where it is considered to be # a pound. For Boolean fields, 0 = false, 1 = true. # Comments: # This file contains sample configurations for the "aastra.cfg" # file. The settings included here are examples only.You should # change/comment the values to suit your requirements. # The Aastra 480i IP phones will download 2 configuration files # from the TFTP server while restarting, the "aastra.cfg" file and # the "Imacl.cfg" file. These two configuration files can be used to # configure all of the settings of the Aastra 480i phone with the # exception of assigning a static IP address to a phone and line # settings, which can only be set in the "<mac>.cfg" file.</mac> # The "aastra.cfg" file configures only the phone with # the MAC address for which the file is named (for example, # "00085d0304f4.cfg"). The settings in the "aastra.cfg" file # will be overridden by settings which also appear in the # "	#	
 <i>The Commer 16th</i>, 04 <i>File: Sample "aastra.cfg" file</i> <i>Notes:</i> <i>The general format used here is similar to configuration files</i> <i>used by several UNIX-based programs. Any text following a number</i> <i>sign (#) is considered to be a comment, unless the number sign is</i> <i>contained within double-quotes ("#") where it is considered to be</i> <i>a pound. For Boolean fields, 0 = false, 1 = true.</i> <i>Comments:</i> <i>This file contains sample configurations for the "aastra.cfg"</i> <i>file. The settings included here are examples only.You should</i> <i>change/comment the values to suit your requirements.</i> <i>The Aastra 480i IP phones will download 2 configuration files</i> <i>from the TFTP server while restarting, the "aastra.cfg" file and</i> <i>the "[mac].cfg" file. These two configuration files can be used to</i> <i>configure all of the settings of the Aastra 480i phone with the</i> <i>exception of assigning a static IP address to a phone and line</i> <i>settings, which can only be set in the "(mac>.cfg" file.</i> <i>The "aastra.cfg" file configures the settings server wide,</i> <i>while the "[mac].cfg" file configures only the phone with</i> <i>the MAC address for which the file is named (for example,</i> <i>"00085d0304f4.cfg"). The settings in the "aastra.cfg" file</i> <i>will be overridden by settings which also appear in the</i> <i>"<mac>.cfg" file.</mac></i> 		
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 # The "aastra.cfg" file configures the settings server wide, # while the "[mac].cfg" file configures only the phone with # the MAC address for which the file is named (for example, # "00085d0304f4.cfg"). The settings in the "aastra.cfg" file # will be overridden by settings which also appear in the # "<mac>.cfg" file.</mac> 	#	settings, which can only be set in the " <mac>.cfg" file.</mac>
 <i>while the "[mac].cfg" file configures only the phone with</i> <i>the MAC address for which the file is named (for example,</i> <i>"00085d0304f4.cfg"). The settings in the "aastra.cfg" file</i> <i>will be overridden by settings which also appear in the</i> <i>"<mac>.cfg" file.</mac></i> 	#	The "aastra.cfs" file configures the settings server wide.
# the MAC address for which the file is named (for example, # "00085d0304f4.cfg"). The settings in the "aastra.cfg" file # will be overridden by settings which also appear in the # " <mac>.cfg" file. #</mac>	#	while the "[mac].cfg" file configures only the phone with
 # "00085d0304f4.cfg"). The settings in the "aastra.cfg" file # will be overridden by settings which also appear in the # "<mac>.cfg" file.</mac> 	#	the MAC address for which the file is named (for example,
<pre># will be overridden by settings which also appear in the # "<mac>.cfg" file. #</mac></pre>	#	"00085d0304f4.cfg"). The settings in the "aastra.cfg" file
# " <mac>.cfg" file.</mac>	#	will be overridden by settings which also appear in the
#	#	" <mac>.cfg" file.</mac>
	#_	
Continued	" C	ontinued

DHCP Setting

dhcp: 1 # DHCP enabled.

DHCP:

#

- # 0 = false, means DHCP is disabled.
 - 1 = true, means DHCP is enabled.

Notes: If DHCP is disabled, the following network settings will

have to be configured manually either through the configuration

files, the Options List in the phone, or the Web Client: IP

Address (of the phone), Subnet Mask, Gateway, DNS, and TFTP

Server.

Network Settings

Notes: If DHCP is enabled, you do not need to set these network

settings

#ip:

#

This value is unique to each phone on a server
and should be set in the "<mac>.cfg" file if
setting this manually.

#subnet mask: #default gateway: #dns1: #dns2: #tftp server:

Additional Network Settings:

#sip registration period: 300# Eg. every 300 seconds, a re-register
request is sent to the SIP server.#sip rtp port: 3000# Eg. RTP packets are sent to port 3000.

#-----

Continued...

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<pre># If of proxy server. ip proxy port: 5060 # 5060 is set by default. ip registrar ip: # IP of registrar. ip registrar port: 5060 # 5060 is set by default. o digit time out: 4 # dialing behaviour</pre>	in provu in	# IP of provu server
<pre>ip proxy port 5000 ** 5000 is set by default. ip registrar ip: # IP of registrar. ip registrar port: 5060 * 5060 is set by default. o digit time out: 4 ** dialing behaviour </pre>	ip proxy ip: in proxy port: 5060	# 11 0j proxy server. # 5060 is set hu default
<pre>ip registrar port: 5060 # 5060 is set by default. ip registrar port: 5060 # 5060 is set by default. idigit time out: 4 # dialing behaviour Time Server Settings Time Server Settings # Time server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings Time Settings Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac></pre>	ip proxy port: 5000	# JP of registrar
e digit time out: 4 # dialing behaviour Time Server Settings ======= ime server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. 1 = true, means the time server is disabled. Line Settings ===== Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>	ip registrar port: 5060	# 5060 is set by default.
Time Server Settings ime server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. 1 = true, means the time server is disabled. Line Settings = Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>	digit time out: 4	# dialing behaviour
Time Server Settings ime server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. 1 = true, means the time server is disabled. Line Settings =		
======= ime server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. 1 = true, means the time server is disabled. Line Settings ==== Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>	Time Server Settings	3
ime server disabled: 1 # Time server disabled. ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: # least one time server IP address. Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. 1 = true, means the time server is disabled. Line Settings ===== Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>		
ime server1: # Enable time server and enter at ime server2: # least one time server IP address. ime server3: # least one time server IP address. Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings ===== Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>	ime server disabled: 1	# Time server disabled.
<pre>ime server2: # least one time server IP address. ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings ====================================</pre>	ime server1:	# Enable time server and enter at
<pre>ime server3: Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings ====================================</pre>	ime server2:	# least one time server IP address.
Time Server Disabled: 0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings ====================================	ime server3:	
<pre>0 = false, means the time server is not disabled. 1 = true, means the time server is disabled. Line Settings ====================================</pre>	Time Server Disabled:	
<pre>1 = true, means the time server is disabled. Line Settings ====================================</pre>	0 = false, means th	e time server is not disabled.
Line Settings ====================================	1 = true, means the	e time server is disabled.
Line Settings ====================================		
======================================	Line Settings	
Lines should be set in the <mac>.cfg file since these settings are unique to each phone. See the sample "<mac>.cfg" file for for more information.</mac></mac>		
are unique to each phone. See the sample " <mac>.cfg" file for for more information.</mac>	Lines should be set in	the <mac>.cfg file since these settings</mac>
for more information.	are unique to each ph	one. See the sample " <mac>.cfg" file for</mac>
	for more information.	

Softkey Settings

#

- # Softkeys can be set either server wide or unique to each phone.
- # Setting softkeys as line/call appearances should be done in the
- *# "<mac>.cfg" file, since these are unique to each phone.*

Notes: There are a maximum of 18 softkeys that can be configured

on the 480i phone. These can be set up through either of the 2

configuration files, depending on whether this is to be server

wide ("aastra.cfg") or phone specific ("[mac].cfg").

Each softkey needs to be numbered from 1 - 18, for example

"softkey12 type: speeddial". Softkeys can be set up as speeddials

or as additional call/line appearances and have a type, label

and value associated with it as seen here in the default softkey

settings.

#

#

#

#

#

#

#

#

#

SOFTKEY TYPES: "line", "speeddial"

SOFTKEY LABEL: Alpha numeric name for the softkey. The maximum number of characters for this value is 10 for speeddials and 9 for lines.

SOFTKEY VALUE: If softkey type is a speeddial, any DTMFs (from

0 - 9, *, "#") or a comma (,) for 500ms pause and

'E' for On-hook can be set for the value. If

softkey type is line, enter value as a number from

5 up to 9 (1 - 4 are already hardcoded as the L1,

L2, L3 and L4 hard key line/call appearances)

Example Softkey Speed Dials

softkey1 type: speeddial softkey1 label: "Ext Pickup" softkey1 value: *8

softkey2 type: speeddial softkey2 label: "Call Return" softkey2 value: *69

Continued...

softkey3 type: speeddial softkey3 label: "CallFwdOn" softkey3 value: *72

softkey4 type: speeddial softkey4 label: "CallFwdOff" softkey4 value: *73

softkey5 type: speeddial softkey5 label: "DND On" softkey5 value: *78

softkey6 type: speeddial softkey6 label: "DND Off" softkey6 value: *79

softkey7 type: speeddial softkey7 label: "CLIDBlock" softkey7 value: *67

softkey8 type: speeddial softkey8 label: "Cancel CW" softkey8 value: *70

softkey9 type: speeddial softkey9 label: "Blacklist" softkey9 value: *60

#

Example Softkey Line/Call Appearances

For the examples of softkey line/call appearances, please

refer to the sample "<mac>.cfg" file.

#-----

For more information on parameters that can be set in the

- *#* configuration files, please refer to your administration guide
- # for the 480i IP phone.

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<mac>.cfg

Compris SID Sample Configuration File
=====================================
Date: December 16th, 04
File: Sample " <mac>.cfg" file</mac>
Comments:
<i>#</i> This file contains sample configurations for the " <mac>.cfg"</mac>
file. Please rename this file with the MAC address (with the
dashes removed) of the specific 480i device that you want to
configure for example "00085d03059f cfo"
Sottings that have already appeared in "agetra ofe" will be
Settings that have been this file
overridden by those in this file.
Parameters can be set in either the " <mac>.cfg" file or the</mac>
"aastra.cfg" file, with the exception of assigning a static
IP address to a phone which can only be set in the " <mac>.cfg"</mac>
<i># file. For more details on sample settings see the sample</i>
"aastra.cfg" file.
#
DHCP Setting
=======
Notes: To set a static IP address, you must first disable DHCP. If
DHCP is disabled you will also need to manually configure Subnet
 BITCH is disabled, you will use need to manually configure subnet Mask Catagony DNS and TETD Surger cattings
Wiusk, Gulewuy, DINS, und IFIF Server settings.
$0 = false$, means DHCP is disabled.
$1 = true$, means DHCP is enabled.
#dhcp: 0 # DHCP disabled.
#
Continued

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#	Network Settings	
---	------------------	--

#

#ip:	# This value is unique to each phone on a server
	# and should be set in the " <mac>.cfg" file if</mac>
	<i># setting this manually.</i>

Line Settings

============

Lines should be set in the <mac>.cfg file since these settings

- *# are unique to each phone.*
- # Notes: Setting parameters for lines 1 4 configures the 4
- # line/call appearance hard keys on the 480i. Setting parameters
- *# for lines 5 9 configures the phone for additional line/call*
- *# appearances that can be set up as softkeys.*
- # The maximum number of line/call appearances that can be
- # configured on the 480i is 8 or 9, depending on how the lines
- # have been configured.
- # If all line/call appearances have been set up for the same
- # number, a total of 9 lines can be configured. If all line/call
- # appearances have been set up between two different numbers, a
- *total of 8 lines can be configured. This means that when all*
- *# line/call appearances are in use, 1 is connected while the rest*
- # are held. No further outgoing or incoming calls can be made until
- *#* one of the line/call appearances becomes available.

Continued...

Explanation of Settings with Line 1 as Example

#sip line1 auth name: # SIP Registrar request authorization name. #sip line1 password: # SIP Registrar request passcode. #sip line1 user name: # This parameter value is used by the 480i # in the From header field of the outgoing # SIP packet. It may be replaced by your # registrar. #sip line1 display name: # Name used for SIP messages. #sip line1 screen name: # User's name seen on the idle screen of the

Example Settings for Lines 2-9

user's phone.

#sip line2 auth name: authname
#sip line2 password: password
#sip line2 user name: 5551231234
#sip line2 display name: Joe Smith
#sip line2 screen name: Joe Smith

#sip line3 auth name: authname
#sip line3 password: password
#sip line3 user name: 5551231234
#sip line3 display name: Joe Smith
#sip line3 screen name: Joe Smith

#sip line4 auth name: authname #sip line4 password: password #sip line4 user name: 5551231234 #sip line4 display name: Joe Smith #sip line4 screen name: Joe Smith

#sip line5 auth name: authname #sip line5 password: password #sip line5 user name: 5551231234 #sip line5 display name: Joe Smith #sip line5 screen name: Joe Smith

Continued...

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#sip line7 auth name: authname #sip line7 password: password #sip line7 user name: 5551231234 #sip line7 display name: Joe Smith #sip line7 screen name: Joe Smith

#sip line8 auth name: authname
#sip line8 password: password
#sip line8 user name: 5551231234
#sip line8 display name: Joe Smith
#sip line8 screen name: Joe Smith

#sip line9 auth name: authname #sip line9 password: password #sip line9 user name: 5551231234 #sip line9 display name: Joe Smith #sip line9 screen name: Joe Smith

- # Softkey Settings
- *#* Softkeys can be set either server wide or unique to each phone.
- # Setting softkeys as line/call appearances should be done in the
- *# "<mac>.cfg" file, since these are unique to each phone.*
- # Notes: There are a maximum of 18 softkeys that can be configured
- # on the 480i phone. These can be set up through either of the 2
- *#* configuration files, depending on whether this is to be server
- # wide ("aastra.cfg") or phone specific ("[mac].cfg").
- # Each softkey needs to be numbered from 1 18, for example
- # "softkey12 type: speeddial". Softkeys can be set up as speeddials
- # or as additional call/line appearances and have a type, label
- # and value associated with it as seen here in the default softkey
- # settings.

Continued...

Softkey Speed Dials

#

For the default softkey speed dials, please refer to the sample

"aastra.cfg" file.

Example Softkey Line/Call Appearances

#softkey1 type: line #softkey1 label: "Line 5" #softkey1 value: 5

#softkey2 type: line #softkey2 label: "Line 6" #softkey2 value: 6

#softkey3 type: line #softkey3 label: "Line 7" #softkey3 value: 7

#softkey4 type: line #softkey4 label: "Line 8" #softkey4 value: 8

#softkey5 type: line #softkey5 label: "Line 9" #softkey5 value: 9

#-----

- *#* For more information on parameters that can be set in the
- # configuration files, please refer to your administration guide

for the 480i IP phone.

Appendix C: TFTP Server Set-up

Appendix C: TFTP Server Set-up

There are a number of TFTP servers available. PumpKIN is one of such TFTP servers. Use the keywords "pumpkin TFTP server" on Google and you should get the web site where you can download the software from. Installing PumpKIN is straightforward. To configure the directory from where you would be serving the files, click on the Options button on PumpKIN's main window as shown in the following figure.

diens	
Server Network Sounds	
C:\FinnwareFiles\	
Allow access to pubdirectories	_
Read Request Behavior Give all files Dempt before giving lie Demy all requests	Confirmation Jineout
Write Request Behavior C Take all Bes C Prompt if the guids Always proget before accepting file C Darry of requests	
OK Cancel Apply	Help

It is important to select the "Give all files" radio button under the "Read Request Behavior" category. This makes the files to be served without any manual intervention when requested.

If you want to prevent users from writing files to the directory select the "Deny all requests" in the "Write Request Behavior" category. Click the OK button after you have entered all the required information. All the firmware files should be in the file system root directory. Currently we do not support downloads from files present in sub-directories. Consult PumpKIN's documentation if you need more information on how to set-up the TFTP server.

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.

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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.

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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.

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If you've read this owner's manual and consulted the Troubleshooting section and still have problems, please visit our website at www.aastra.com or call 1-800-574-1611 for technical assistance.

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