# **MODEL** 51i, 53i, 55i, 57i, and 57i CT



## SIP IP PHONE



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## SIP IP Phone Models 51i, 53i, 55i, 57i, and 57i CT Release Note 2.2

### **About this Document**

This document provides an overview of the 2.2 features on the 5i Series phones (51i, 53i, 55i, 57i, and 57i CT).

For more detailed information about the features associated with each phone, and for information on how to use the phones, see your model-specific *SIP IP Phone Installation Guide* and the *SIP IP Phone User Guide*. For detailed information about more advanced features, see the *SIP IP Phone Administrator Guide*.

Topics in this release note include:

- General Information (release content, hardware supported, bootloader requirements)
- Features in Release 2.2
- Issues Resolved on Series 5i Phones in Release 2.2
- Contacting Aastra Telecom Support

## **General Information**

#### **Release Content Information**

This document provides release content information on the Aastra 51i, 53i, 55i, 57i, and 57i CT SIP IP phone firmware.

Model	Release Name	Release Version	Release Filename	Release Date
51i	Generic SIP	2.2	FC-001126-00-06	March 2008
53i	Generic SIP	2.2	FC-001086-00-09	March 2008
55i	Generic SIP	2.2	FC-001087-00-09	March 2008
57i	Generic SIP	2.2	FC-001088-00-09	March 2008
57i CT	Generic SIP	2.2	FC-001089-00-09	March 2008

#### **Hardware Supported**

This release of firmware is compatible with the following Aastra IP portfolio products:

- 51i
- 53i
- 55i
- 57i
- 57i CT

#### **Bootloader Requirements**

This release of firmware is compatible with the following Aastra IP portfolio product bootloader versions:

- 51i Bootloader 2.0.1.1055 or higher
- 53i Bootloader 2.0.1.1055 or higher
- 55i Bootloader 2.0.1.1055 or higher
- 57i Bootloader 2.0.1.1055 or higher
- 57i CT Bootloader 2.0.1.1055 or higher

### Features in Release 2.2

#### Description

This section describes the new features included in Release 2.2 of the 5i Series IP Phones. The following table specifies the 2.2 Features and provides the page number for each feature.

Feature	Page Number		
Usability Features	·		
Dial Plan Support for Secondary Dial Tone	page 5		
Account-Based Do Not Disturb (DND) and Call Forward (CFWD)	page 6		
Multicast Group Paging	page 60		
Simplified Transfer Using BLF and Speeddial Keys	page 68		
Ability to Disable Switching Focus to a Ringing Line When on a Call	page 74		
Security Features			
802.1x Support	page 76		
Improved Configuration File Encryption	page 90		
Deployability Features			
SIP NOTIFY Triggers an XML Event	page 91		
RTP and Multicast RTP via XML	page 97		
Text Wrap for XML TextMenu Items	page 102		
Non-Blocking HTTP Connections	page 103		
Polling Action URI	page 104		
Deployability Features			
SIP Registration Status in Aastra Web UI	page 106		
Support for HTTP and HTTPS Configuration Servers on Non-Standard Ports	page 108		
Ability to Set TFTP and FTP Path for Configuration Servers	page 113		
Deployability Features			
Configurable SIP and TLS Source Ports	page 120		
RPORT Support	page 123		

Feature	Page Number
BroadSoft Interoperability Features	
CMS Support	page 126
Server-Side Do Not Disturb (DND), Call Forward (CFWD) , and Automatic Call Distribution (ACD) Support	page 130

#### **Usability Features**

#### **Dial Plan Support for Secondary Dial Tone**

The IP phones now support a feature that allows the user to dial a predefined dial string, obtain a dial tone, and continue dialing. A User or Administrator can configure this using the existing Dial Plan feature on the phone.

You can enter a new character string in the dial plan that allows you to configure the secondary dial tone. The character string is of the form ".;.", where the period indicates an arbitrary number of digits and the semicolon indicates that the phone is to present a dial tone after the previous dialed digit. For example, in the string:

"9;xxxxx"

the user dials "9" to get the outside line, listens for the dial tone, and continues to dial the applicable number. The ";" tells the phone to present a second dial tone after the previously dialed digit. "The "xxxxx" in the example tells the phone that a phone number is dialed after the secondary dial tone is audible.

You can enter the Secondary Dial Tone string in the Dial Plan using the configuration files or the Aastra Web UI.

You use the following parameter in the configuration files to configure a secondary dial tone:

• sip dial plan

Example: sip dial plan: "9;xxxxxx"

You use the following parameter in the Aastra Web UI to configure a secondary dial tone:



#### Account-Based Do Not Disturb (DND) and Call Forward (CFWD)

In previous releases of the IP Phone, you could configure a DND key to set "do not disturb" on all the lines on the phone. Also in previous releases, you could configure CFWD on all lines (global settings) or on specific lines (local settings) on the phone.

In Release 2.2, the IP phones have a new DND and CFWD feature that allows an Administrator and User to configure "do not disturb" and "call forwarding" by account. You can set specific modes for the way you want the phone to handle DND and CFWD. The three modes you can set on the phone for these features are:

- Account
- Phone
- Custom.

The following paragraphs describe account-based DND and CFWD:

- DND Account-Based Configuration
- CFWD Account-Based Configuration

#### **DND Account-Based Configuration**

Previous to release 2.2, DND was configurable on the phone-side only on a global basis by configuring a DND key. Now an Administrator or User can configure DND on the phone-side by setting a mode for the phone to use (**account**, **phone**, or **custom**). Once the mode is set, you can use the IP Phone UI to use the DND feature.

## →

**Note:** If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".

The following describes the softkey behavior for each DND mode.

- Account DND key toggles the account in focus on the IP Phone UI, to ON or OFF if DND enabled for that account.
- Phone DND key toggles all accounts on the phone to ON or OFF.
- **Custom** DND key displays custom screens on the IP Phone UI. User can select whether to enable/disable DND per account, enable DND on all accounts, or disable DND on all accounts.

The following table describes the softkey and Message Waiting Indicator (MWI) LEDs when you enable DND on the IP Phone.

Softkey LED Behavior	MWI LED Behavior
for All Modes	for All Modes
<b>DND key LED RED</b> if current account in focus has DND ON. <b>DND key LED OFF</b> when current account in focus has DND disabled.	MWI LED ON if current account in focus has DND ON. MWI LED OFF if current account in focus has DND OFF.

You can configure the DND softkey and the DND mode (**Account**, **Phone**, **Custom**) using the configuration files or the Aastra Web UI. Once you configure DND, you can access the DND screen on the IP Phone UI.

#### **Important Notes**

- In the Aastra Web UI, the "Account Configuration" page replaces the previous "Call Forward Settings" page.
- In the IP Phone UI, the new DND key feature now has new menu screens.
- If you make changes to the configuration for DND via the IP Phone UI, you must refresh the Aastra Web UI screen to see the changes.

#### Configuring DND Using the Configuration Files

You use the following parameters to configure DND on the IP Phone:

- dnd key mode
- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- softkeyN states (optional)

Parameter –	Aastra Web UI:	Basic Settings->Preferences->General					
dnd key mode	Configuration Files	aastra.cfg, <mac>.cfg</mac>					
Description	Sets the mode for how the phone uses "do not disturb" (DND):						
	_						
	account Se	ets DND for a specific account.					
	IP Phone LIL to ON or OFF						
	Priore OI, to ON of OFF.     Sets DND ON for all accounts on the phone						
	DI DI	ND key toggles all accounts on the phone to ON or					
	OFF.						
	custom Sets the phone to display custom screens after						
	pr	pressing the DND key, that list the account(s)					
	or	on the phone. The user can select a specific					
	account for DND, turn DND ON for all accounts,						
	Note: If there is only	Note: If there is only one account configured on the phone, then the					
	mode setting is igno	g is ignored and the phone behaves as if the mode was set					
	to "Phone"						
Format	Integer						
Default Value	1 (phone)						
Range	0 (account)						
	1 (phone)						
	2 (custom)						
Example	dnd key mode: 2						

You use the following parameters to configure a DND softkey:

- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- softkeyN states (optional)



**Note:** If there is no DND key configured or if it is removed, DND is disabled on the IP Phone.

#### <u>Example</u>

The following is an example of configuring the mode for DND in the configuration files:

```
dnd key mode: 2
softkey1 type: dnd
softkey1 states: idle connected incoming outgoing busy
```

In the above example, softkey 1 is configured for DND for line 1 only, with a "**custom**" configuration. Pressing softkey 1 displays DND screens for which you can customize on the phone. For specific screens that display in the IP Phone UI, see the section, "Using DND Modes via the IP Phone UI" on page 13.

#### Configuring DND Using the Aastra Web UI

Use the following procedure to configure DND mode using the Aastra Web UI:

$\mathbf{S}$	Aastra Web UI						
1	Click on Basic Setting	gs->Preferences->Genera	ıl				
	Status System Information	Preferences					
	Operation User Password Phone Lock Softkeys and XML Directory Reset Basic Settings Preferences Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 5 Line 6 Line 7 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1x Support	General Local Dial Plan Send Dial Plan Terminator Digit Timeout (seconds) Park Call: Pick Up Parked Call: Suppress DTMF Playback Display DTMF Digits Call Waiting Play Call Waiting Tone Stuttered Dial Tone XML Beep Support Status Scroll Delay (seconds) Incoming Call Interrupts Dialing Switch Ul Focus To Ringing Line Goodbye Key Cancels Incoming Call UPnP Mapping Lines Message Waiting Indicator Line DND Key Mode Call Forward Key Mode	x+#jox+*  Enabled    Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Enabled  Account Account	DND Key Mode – Parameter			
2	In the " <b>DND Key Mod</b> Valid values are: Acco	e" field, select a "do not dis unt, Phone, Custom. Defa	turb" (DND) mode to use ult is <b>Phone</b> .	on the phone.			
	account Sets DND for a specific account. DND key toggles the account in focus on the IP Phone UI, to ON or OFF.						
	• phone Sets	s DND ON for all accounts ne to ON or OFF.	on the phone. DND key to	oggles all accounts on the			
	custom Sets     acco     DNI	s the phone to display custo ount(s) on the phone. The o O ON for all accounts, or tu	om screens after pressing user can select a specific rn DND OFF for all accou	g the DND key, that list the account for DND, turn unts.			
	Notes: 1. If there is only or phone behaves as if th 2. Using the Aastra syncrhonize to the cur	ne account configured on the ne mode was set to "Phone Web UI, if you change the rent setting of Account 1.	ne phone, then the mode ". DND Key Mode to "phon	setting is ignored and the e", all accounts			

0	Aastra	a Web UI								
3	Click Save Settings to save your changes.									
	The change takes effect immediately without a reboot.									
4	Click on Basic Settings->Account Configuration									
	Status Sys Operatio Us	stem Information on er Password	Account Config	uration					L	
	Ph	one Lock ogrammable Kevs	Account	DND	Call Forward	State	Number	No. Rings		
	Dir	rectory	1. Screenname i		Busv					
	Basic Se	ettings			No Answer			1 🕶		
	Pre Act	eferences count Configuration	2 Paraganagene		All		[]			
	Advance	ed Settings	2. Screennamez		Busy					
	Glo	obal SIP			No Answer			1 🗸		
	Lin	ne 1 ne 2				_				
	Lin	10.3	3. Screenname3		All					
	Lin	1e 4 1e 5			No Answer			1 🗸		
	Lin	1e 6 1e 7								
	Lin	10.8	Save Settings							
	Lin	tion URI								
	Co	infiguration Server								
	TL	S Support								
	80:	2.1x Support								
	_									
5	For eacl	h account ena	ble DND by pla	cina a che	k mark in th	e hov	Disable DND by	unchecking	the	
5	box.	n account, ena				e box.		unchecking	uie	
	Notes:									
	1. If yo	u selected "Ac	count" or "Cus	<b>tom</b> " mode	e in step 2, yo	ou can	enable/disable e	each account	t or	
	all accou	unts as applica	ible.					e		
	If you se	elected "Phone	" mode, the firs	t account a	llows you to o	change	e the DND status	for all accou	ints.	
	2 Num	ber and name	of accounts the	at display to	this scroop	are de	nendant on the	number and		
	name of	f accounts cont	figured on the r	hone In th	e screen in s	are de step 4	Screenname1 is		on	
	Line 1. S	Screenname2 i	is configured or	n Line 2. an	d Screennar	ne3 is	configured on Li	ne 3. The na	ame	
	for the a	account is depe	endant on the n	ame specif	ied for the "S	creen	Name" paramet	er at the patl	h	
	Advanc	ed Settings->	LineN. If you d	o not speci	fy a value for	r the "S	Screen Name" pa	arameter, the	•	
	account	name is based	d on the "Phone	e Number"	parameter at	t the pa	ath Advanced S	ettings->Lin	neN.	
	If neithe	r the "Screen N	Name" nor the "	Phone Nur	nber" parame	eters a	re specified, the	account nan	ne	
	shows "	1", "2", "3", etc.	. only.							

lick Save Settin ne change takes e lick on <b>Operation</b> lick on <b>Operation</b>	effect in ->Soff	to save you mmediately v tkeys and XI grammable l	ir chang vithout a ML;	es. 1 reboot.										
he change takes of the cha	effect in ->Soff	mmediately v keys and XI	vithout a VIL;	a reboot.										
he change takes of lick on <b>Operation</b> lick on <b>Operation</b>	effect i I->Soff I->Prog	mmediately v :keys and XI grammable l	vithout a VIL;	a reboot.										
lick on <b>Operation</b> lick on <b>Operation</b>	i->Sofi i->Pro	keys and XI	ML;											
lick on <b>Operation</b>	->Pro	grammable l			Click on <b>Operation-&gt;Softkeys and XML</b> ;									
lick on <b>Operation</b>	I->Pro	grammable l	or Click on Operation > Programmable Kover											
lick on <b>Oneration</b>		Click on <b>Operation-&gt;Programmable Keys;</b>												
or Click on <b>Operation-&gt;Expansion Module</b> .														
Status														
System Information	Sof	tkeys Configur	ation											
Operation User Password Bottom Keys Top Keys														
Phone Lock Softkeys and XML	Key	Туре	Label	Value	Lin	ie	Idle	Connecte	d Incoming (	Dutgoing	Busy			
Directory Reset	1	Do Not Disturb	/		1	~	<b>V</b>	<ul><li>✓</li></ul>	<b>V</b>					
Basic Settings	2	Do Not Disturb	/		1	~	<b>V</b>	<b>V</b>	<b>V</b>	<b>~</b>				
Preferences Account Configuration	з 🖡	None			1	~	1	$\checkmark$	1	$\checkmark$	×			
Advanced Settings	4	None			1	~	×	V	¥	×	×			
Network Global SIP	5	None			1	~		¥	×		×			
Line 1	6	None			1	~	V	¥	¥	$\checkmark$	×			
Line 2	1	None			1	~		¥	×		×			
Line 3	ß	None			1	~								
Line 5	/ <sup>9</sup>	None			1	~								
Line 6 Line 7		None			1	~								
Line 8		None			1	×								
Line 9 Action LIRI	12	None			1	~								
Configuration Server	13	None			4	×	× .		× .					
Firmware Update	15	None			4		▼							
802.1x Support	16	None			1									
Troubleshooting	17	None	/		1	~								
	18	None	/		1	~								
1					1	~								
/	19	None												
	Status System Information Operation User Password Phone Lock Softkeys and XML Directory Reset Basic Settings Preferences Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 7 Line 8 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1x Support	Status     System Information     Soft       Operation     User Password     Fe       User Password     Fe     1       Directory     Directory     1       Basic Settings     2       Preferences     3       Account Configuration     4       Advanced Settings     4       Line 1     1       Line 2     7       Line 3     10       Line 4     9       Line 5     10       Line 6     10       Line 7     11       Line 8     12       Action URI     13       Configuration Server     14       Firmware Update     15       802.1x Support     16       Troubleshooting     17	Status       System Information       Operation     Softkeys Configur       User Password     Phone Lock       Softkeys and XML     Directory       Directory     Reset       Basic Settings     Preferences       Account Configuration     None       Advanced Settings     None       Line 1     1       Line 2     0       Line 3     8       Line 4     9       Line 5     10       Line 6     10       Line 8     12       Action URI     13       Configuration Server       Firmware Update       TLS Support       Bo2.1x Support       Toubleshooting	System Information       Softkeys Configuration         Operation       User Password         Phone Lock       Softkeys and XML         Directory       Reset         Basic Settings       Preferences         Account Configuration       Nene         Advanced Settings       None         Line 1       1         Line 2       0         Line 3       8         Line 4       9         Line 5       10         Line 8       12         Action URI       13         Configuration Server         Firmware Update         TLS Support         802.1x Support         10       None         11       None         12       None         13       None         14       None         15       None         16       None	System Information       Softkeys Configuration         Operation       User Password         Phone Lock       Softkeys and XML         Directory       Bottom Keys       Top Keys         Preferences       Account Configuration         Actvanced Settings       None       Image: Configuration         Network       Global SIP       None       Image: Configuration         Line 1       Image: Configuration       None       Image: Configuration         Line 2       None       Image: Configuration       Image: Configuration         Line 3       None       Image: Configuration       Image: Configuration         Line 4       None       Image: Configuration       Image: Configuration         Line 5       None       Image: Configuration       Image: Configuration         Line 6       Image: Configuration       Image: Configuration       Image: Configuration         Line 8       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Line 9       None       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Softkeys Configuration       Image: Configuration       Image: Configuration       Image: Configuration       Image: Config	Status       System Information         Operation       User Password         Phone Lock       Softkeys Configuration         Softkeys and XML       Directory         Directory       Reset       Top Keys         Basic Settings       Preferences         Account Configuration       Nene       Image: Configuration         Atvanced Settings       None       Image: Configuration         Ine 1       Image: Configuration       Image: Configuration         Line 1       Image: Configuration       Image: Configuration         Atvanced Settings       None       Image: Configuration         Ine 2       Image: Configuration       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URI       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Boold       Image: Configuration       Image: Configuration       I</th><th>Status       System Information         Operation       User Password         Phone Lock       Softkeys and XML         Directory       Reset         Basic Settings       2       Do Not Distub       1       Do Not Distub       1       Value       Line       Idle       Connected Incoming (Stress)         Preferences       Account Configuration       1       Do Not Distub       V       V       V       V         Network       None       V       V       V       V       V       V         Ine       None       V       V       V       V       V       V         Network       None       V       V       V       V       V       V         Une 3       None       V       V       V       V       V       V         Line 4       None       V       V       V       V       V       V         Line 5       None       V       V       V       V       V       V         Line 6       None       V       V       V       V       V       V       V         Line 7       None       V       V       V       V</th><th>Status       System information         Operation       User Password       Forthery       Top Keys         Bottom Keys       Top Keys         Directory       Reset       Image: Configuration         Basic Settings       Preferences       None       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration         Image: Configuration       None       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration       Image: Configuration         Image: Configuration       None       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Image: Configuration Server       Image: Configuration       Image: Configuration</th></thi<>	Status       System Information         Operation       User Password         Phone Lock       Softkeys Configuration         Softkeys and XML       Directory         Directory       Bottom Keys       Top Keys         Preferences       Account Configuration         Account Configuration       None       Image: Configuration         Attack       Softkeys Configuration         Network       Image: Configuration         Global SIP       Image: Configuration         Line 1       Image: Configuration         Line 2       Do Not Disturb       Image: Configuration         Line 3       None       Image: Configuration         Line 4       Image: Configuration       Image: Configuration 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Configuration       Image: Configuration         Line 1       None       Image: Configuration       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration       Image: Configuration         Ine 2       Do Not Disturb       Image: Configuration       Image: Configuration       Image: Configuration         Ine 2       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Ine 3       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Ine 8       Action URI       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Boold       Image: Configuration       Image: Configuration       I	Status       System Information         Operation       User Password         Phone Lock       Softkeys and XML         Directory       Reset         Basic Settings       2       Do Not Distub       1       Do Not Distub       1       Value       Line       Idle       Connected Incoming (Stress)         Preferences       Account Configuration       1       Do Not Distub       V       V       V       V         Network       None       V       V       V       V       V       V         Ine       None       V       V       V       V       V       V         Network       None       V       V       V       V       V       V         Une 3       None       V       V       V       V       V       V         Line 4       None       V       V       V       V       V       V         Line 5       None       V       V       V       V       V       V         Line 6       None       V       V       V       V       V       V       V         Line 7       None       V       V       V       V	Status       System information         Operation       User Password       Forthery       Top Keys         Bottom Keys       Top Keys         Directory       Reset       Image: Configuration         Basic Settings       Preferences       None       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration         Image: Configuration       None       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration       Image: Configuration         Image: Configuration       None       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Advanced Settings       None       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration       Image: Configuration         Image: Configuration Server       Image: Configuration       Image: Configuration			

#### Using DND Modes via the IP Phone UI

If you add a DND key using the configuration files or the Aastra Web UI, you can toggle the DND state using the IP Phone UI. Use the following procedure to enable/disable DND on the IP Phone.

The following procedure assumes you have already configured a DND key AND assumes there are three accounts configured on the phone.



#### Notes:

**1.** If there is no DND key configured or if it is removed, DND is disabled on the IP Phone.

**2.** If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".

**3.** Using the Aastra Web UI, if you change the DND key mode to "phone", all accounts synchronize to the current setting of Account 1.





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#### **CFWD** Account-Based Configuration

Call Forward (CFWD) on the IP phone allows incoming calls to be forwarded to another destination.

Previous to Release 2.2, you could configure CFWD on all lines (global settings) or on specific lines (local settings) on the phone, using the IP Phone UI and the Aastra Web UI. You could configure call forwarding on the IP Phone UI on a global basis only using the Options Menu.

An Administrator or User can now configure CFWD on the phone-side by setting a mode for the phone to use (**Account**, **Phone**, or **Custom**). Once the mode is set, you can use the IP Phone UI to use the CFWD feature at *Options->Call Forward* or by pressing a configured Call Forward softkey/programmable key/extension module key.

The following describes the behavior for each CFWD mode.

- Account mode The account mode allows you to configure CFWD on a per account basis. Pressing a configured CFWD key applies to the account in focus.
- **Phone mode** The Phone mode allows you to set the same CFWD configuration for all accounts (**All**, **Busy**, and/or **No Answer**). When you configure the initial account, the phone applies the configuration to all other accounts. (In the Aastra Web UI, only the account you configured is enabled. All other accounts are grayed out but set to the same configuration.) Using the Aastra Web UI, if you make changes to that initial account, the changes apply to all accounts on the phone.
- Custom mode The Custom mode allows you to configure CFWD for a specific account or all accounts. You can configure a specific mode (All, Busy, and/or No Answer) for each account independently or all accounts. On the 51 and 53i phones, you can set all accounts to ALL On or ALL Off. On the 55i, 57i, and 57i CT, you can set all accounts to All On, All Off, or copy the configuration for the account in focus to all other accounts using a CopytoAll softkey.

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**Note:** If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".

In previous releases, you could configure one phone number and then select the current mode (All, Off, Busy, No Answer, Busy No Answer). In Release 2.2, you can enable different call forwarding rules/modes independently (for example, you can set different phone numbers for Busy, All, and NoAns modes and then turn them on/off individually).

The following table describes the key and Message Waiting Indicator (MWI) LEDs when you enable CFWD on the IP Phone.

Key LED Behavior	MWI LED Behavior
for All Modes	for All Modes
<b>CFWD key LED RED</b> if CFWD All, CFWD Busy, or CFWD No Answer is enabled for the account in focus. <b>CFWD key LED OFF</b> if any CFWD mode is disabled.	<b>MWI LED ON</b> if current account in focus has CFWD ALL enabled. <b>MWI LED OFF</b> if CFWD All is disabled.

You can enable/disable CFWD and set a CFWD key using the configuration files or the Aastra Web UI. You can set CFWD mode (**Account**, **Phone**, **Custom**) using the configuration files, Aastra Web UI or IP Phone UI.

#### **Important Notes**

- In the configuration files, the new "call forward key mode" parameter listed in the section "Configuring CFWD Using the Configuration Files", is in addition to the previous call forward parameter (call forward disabled). You can still use the previous call forwarding parameter if desired in the configuration files.
- In the Aastra Web UI, the "Account Configuration" page replaces the previous "Call Forward Settings" page.
- In the IP Phone UI, the new CFWD feature has new menu screens at the path *Options->Call Forward* or by pressing a configured CFWD key.
- If you make changes to the configuration for CFWD via the IP Phone UI, you must refresh the Aastra Web UI screen to see the changes.

#### Configuring CFWD Using the Configuration Files

You use the following parameters to set CFWD on the IP Phone using the configuration files:

- call forward key mode
- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- softkeyN states (optional)

#### Notes:

**1.** If there is no CFWD key configured on the phone or it is removed, you can still set the CFWD modes via the IP Phone UI at the path *Options->Call Forward*.

**2.** If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".

**3.** When configuring a CFWD mode (**All**, **Busy**, **No Answer**) for an account, you must configure a CFWD number for that mode in order for the mode to be enabled.

Parameter –	Aastra Web UI:	Basic Settings->Preferences->General
call forward key mode	<b>Configuration Files</b>	aastra.cfg, <mac>.cfg</mac>
Description	<ul> <li>Sets the mode for how</li> <li>account The account mode basis. Pressing a focus.</li> <li>phone The Phone mode for all accounts (A configure the initia all other accounts configured is enable the same configure changes to that init the phone.</li> <li>custom The Custom mode account or all accounts. On the ALL On or ALL O accounts to All O account in focus to</li> <li>Notes:</li> <li>1. If there is no CFV you can still set the C Options-&gt;Call Forwar</li> <li>2. If there is only on mode setting is ignore to "Phone".</li> <li>3. When configuring account, you must con the mode to be enable</li> </ul>	w the phone uses "call forwarding" (CFWD) e allows you to configure CFWD on a per account configured CFWD key applies to the account in allows you to set the same CFWD configuration <b>JII, Busy</b> , and/or <b>No Answer</b> ). When you al account, the phone applies the configuration to . (In the Aastra Web UI, only the account you oled. All other accounts are grayed out but set to ration.) Using the Aastra Web UI, if you make itial account, the changes apply to all accounts on e allows you to configure CFWD for a specific ounts. You can configure a specific mode ( <b>AII</b> , <b>Answer</b> ) for each account independently or all 51 and 53i phones, you can set all accounts to <b>off</b> . On the 55i, 57i, and 57i CT, you can set all <b>n</b> , <b>AII Off</b> , or copy the configuration for the o all other accounts using a <b>CopytoAII</b> softkey. WD key configured on the phone or it is removed, FWD modes via the IP Phone UI at the path <i>d</i> . ue account configured on the phone, then the ed and the phone behaves as if the mode was set g a CFWD mode ( <b>AII</b> , <b>Busy</b> , <b>No Answer</b> ) for an nfigure a CFWD number for that mode in order for ed.
Format	Integer	
Default Value	0 (account)	
Range	0 (account) 1 (phone) 2 (custom)	
Example	call forward key mode	e: 2

You use the following parameters to configure a CFWD key and number of rings:

- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- softkeyN states (optional)

#### <u>Example</u>

The following is an example of configuring the mode for CFWD in the configuration files:

```
call forward key mode: 2
softkey1 type: call forward
softkey1 states: idle connected incoming outgoing busy
```

In the above example, softkey 1 is configured for CFWD on line 1 (account 1) with a "**custom**" configuration. Pressing softkey 1 displays CFWD screens for which you can customize on the phone. For specific screens that display in the IP Phone UI, see the section, "Using CFWD Modes via the IP Phone UI" on page 29.

#### Configuring CFWD Using the Aastra Web UI

Use the following procedure to configure CFWD mode using the Aastra Web UI:

Line	e	Idle	Connected	l Incoming	Outgoing	Busy
1	×	$\checkmark$	<b>V</b>	1	<b>V</b>	1
1	~	<b>~</b>	<b>~</b>	<b>V</b>	<b>V</b>	<b>V</b>
1	~	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	1
1	~	$\checkmark$	~	$\checkmark$	×	$\checkmark$
1	~	$\checkmark$	¥	×	×	$\checkmark$
1	~	$\checkmark$	<b>V</b>	×	$\checkmark$	<b>V</b>
1	~	$\checkmark$	~	×	×	<b>V</b>
1	~	$\checkmark$	×	×	×	<b>V</b>
1	~	<b>V</b>	<b>V</b>	<b>V</b>	×	<b>V</b>
1	~					
1	~					
1	~					
1	~					
1	~					
1	~					
1						
1	~					
4						
4						
4	~					×
1	V	1.0.00				
		1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N       1     N				



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8	Aastra Web UI
4	In the " <b>Call Forward Key Mode</b> " field, select a call forward mode to use on the phone. Valid values are: Account, Phone, Custom. Default is <b>Account</b> .
	<ul> <li>account         The account mode allows you to configure CFWD on a per account basis. Pressing a configured CFWD key applies to the account in focus.     </li> <li>phone         The Phone mode allows you to set the same CFWD configuration for all accounts (All, Busy, and/or No Answer). When you configure the initial account, the phone applies the configuration to all other accounts. (In the Aastra Web UI, only the account you configured is enabled. All other accounts are grayed out but set to the same configuration.) Using the Aastra Web UI, if you make changes to that initial account, the changes apply to all accounts on the phone.     </li> <li>custom         The Custom mode allows you to configure CFWD for a specific account or all accounts. You can configure a specific state (All, Busy, and/or No Answer) for each account independently or all accounts. On the 51 and 53i phones, you can set all accounts to ALL On or ALL Off. On the 55i, 57i, and 57i CT, you can set all accounts using a CopytoAll softkey.     </li> </ul>
	<ul> <li>Notes:</li> <li>1. If there is no CFWD key configured on the phone or it is removed, you can still set the CFWD modes via the IP Phone UI at the path <i>Options-&gt;Call Forward</i>.</li> <li>2. If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".</li> <li>3. When configuring a CFWD state (All, Busy, No Answer) for an account, you must configure a CFWD number for that state in order for the state to be enabled.</li> </ul>
5	Click Save Settings to save your changes.
	The change takes effect immediately without a reboot.

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0	Aastra Web UI							
6	Click on Basic Settin	ngs->Account C	onfigurat	ion.				
	Status System Information Operation	Account Config	uration					
	Phone Lock	Account	DND	Call Forward	State	Number	No. Rings	
	Programmable Keys	1. Screenname1		All				
	Reset			Busy				
	Basic Settings			No Answer			1 🕶	
	Account Configuration	2 Screenname2		All				
	Advanced Settings			Busy				
	Global SIP			No Answer			1 🗸	
	Line 1 Line 2	0.0						
	Line 3	3. Screenname3		All				
	Line 5			No Answer			1 🗸	
	Line 6 Line 7							
	Line 8	Save Settings						
	Line 9 Action URI	outo coungo						
	Configuration Server							
	TLS Support							
	802.1x Support							
	_							•
-	<b>F</b>					<u> </u>		
7	For each account, er	able CFWD stat	e by placir	ig a check ma	ark in c	one or more of th	e following	
	State neids:							
	• All							
	• Busv							
	No Answer							
	The "All" option forwa	ards all incoming	calls for th	is account to	the sp	ecified phone nu	mber regard	dless
	of the state of the ph	one. The phone	can be in t	he Busy or No	o Ansv	ver states, or car	n be in the i	dle
	state. The phone still	torwards all call	s to the sp	ecified numbe	er.	in the huge stat		oro
	forwarded to the spe	cified phone num	ning calls o ber	only if the acc	ountis	s in the busy stat	e. The calls	are
	The "No Answer" op	tion call forwards	incomina	calls only if the	ne acc	ount rinas but is	not answer	ed in
	the defined number of	of rings. The call	gets forwa	rded to the sp	pecified	d number.		
	Note: You can use th	e " <b>Busy</b> " and "N	o Answer	" states toget	her us	ing different forw	arding pho	ne
	numbers. If these sta	tes are enabled	tor an acc	ount (the "All"	state	is disabled), and	the phone	is in
	the busy state when	a call comes in, t	ne phone	can torward the	ne call	to the specified	pnone num	nper
	(IOF example, VOICEM	an). If there is no	answer o	n me phone a	nter th	e speciliea numi	ber of fings,	, me
	phone can lorward th		int specifie	a number, su		a cell phone nun		

$\mathbf{S}$	Aastra Web UI					
8	For each account, in the " <b>Number</b> " field, enter the phone number for which you want the incoming calls to forward to if the phone is in the specified state.					
	If using the " <b>Account</b> " mode or " <b>Custom</b> " mode, you can enter different phone numbers for each account.					
	<ul> <li>Notes:</li> <li>1. If you selected "Account" mode in step 4, you can enable/disable each account or all accounts as applicable. You can enter different phone number for each enabled state. If you selected "Custom" mode, you can enable/disable each account or all accounts as applicable. You can enter different phone numbers for each enabled state. If you selected "Phone" mode, all accounts are set to the same CFWD configuration (All, Busy, and/ or No Answer) as Account 1 on the phone. (In the Aastra Web UI, only Account 1 is enabled. All other accounts are grayed out but use the same configuration as Account 1.)</li> </ul>					
	Using the Aastra Web UI, if you make changes to Account 1, the changes apply to all accounts on the phone. Using the IP Phone UI, if you make changes to any other account other then Account 1, the changes also apply to all accounts on the phone. When enabling a CFWD state, you must specify a phone number for the phone to CFWD to. The number you specify applies to all accounts of the same mode.					
	2. Number and name of accounts that display to this screen are dependant on the number and name of accounts configured on the phone. In the screen in step 6, Screenname1 is configured on Line 1, Screenname2 is configured on Line 2, and Screenname3 is configured on Line 3. The name for the account is dependant on the name specified for the "Screen Name" parameter at the path Advanced Settings->LineN. If you do not specify a value for the "Screen Name" parameter, the account name is based on the "Phone Number" parameter at the path Advanced Settings->LineN. If neither the "Screen Name" nor the "Phone Number" parameters are specified, the account name shows "1", "2", "3", etc. only.					
9	For the <b>No Answer</b> state, in the " <b>No. Rings</b> " field, enter the number of times that the account rings before forwarding the call to the specified number. Valid values are 1 through 20. Default is 1. <b>Note:</b> When using the " <b>Account</b> " mode or " <b>Custom</b> " mode, you can enter a different number of rings for each account. If you use the Aastra Web UI to change the Call Forward Key Mode to " <b>Phone</b> ", all					
10	accounts synchronize to Account 1.       Click     Save Settings       to save your changes.					
	The change takes effect immediately without a reboot.					

#### Using CFWD Modes via the IP Phone UI

If you enable/disable CFWD using the configuration files or the Aastra Web UI, you can use the CFWD screens that display to the IP Phone UI. You can access the CFWD parameters by pressing a configured CFWD key (if previously configured) OR by pressing *Options->Call Forward* on the phone's front panel.

The following procedure assumes you have already configured a CFWD key AND assumes there are three accounts configured on the phone.



#### Notes:

1. If there is no CFWD key configured on the phone or it is removed, you can still enable CFWD via the IP Phone UI at the path *Options->Call Forward*.

**2.** If there is only one account configured on the phone, then the mode setting is ignored and the phone behaves as if the mode was set to "Phone".

**3.** Using the Aastra Web UI, if you change the CFWD key mode to "**Phone**", all accounts synchronize to the current setting of Account 1.



<u>A</u>	Aastra IP Phone UI				
Step	Action				
3	Select a state for the account(s) in focus using the <b>UP</b> and <b>DOWN</b> arrow keys.				
	You can enable/disable any or all of the following states for an account:				
	• All - Enables CFWD All for an account and forwards all incoming calls for that account, to the specified number.				
	• <b>Busy</b> - Enables <b>CFWD Busy</b> for an account and forwards incoming calls to a specified number if DND has been enabled for that account OR if the account is currently engaged in another call.				
	<ul> <li>No Answer - Enables CFWD NoAns for an account and forwards incoming calls to a specified number if the call has not been answered for the specified number of rings.</li> </ul>				
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns</b> .				
	You can also use the following keys if required:				
	All Off - Disables all CFWD states for the current account in focus.				
	All On - Enables all CFWD states for the current account in focus.				
4	Press the <b>CHANGE</b> key for the state you selected in step 3. Scroll to the CFWD State screen. This displays the current state of the mode you selected. In the following example, the CFWD All state is ON				
	1. Cfwd All Use ▼▲ to view				
	CFWD State Screen → Change ← Change ← Set				
5	Press the <b>CHANGE</b> key in the CFWD State screen. Press <b>NEXT</b> to toggle the state of the CFWD mode ON or OFF. In the example in Step 4, you press <b>NEXT</b> to change the option to <b>OFF</b> .				
6	Press the SET key to save the change.				

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Æ7	Aastra IP Phone UI
Step	Action
7	In the CFWD State screen, press the <b>DOWN</b> arrow key to scroll to the CFWD Number screen and press <b>CHANGE</b> .
	CFWD Number Screen
8	Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
9	Press <b>SET</b> to save the change.

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Æ7	Aastra IP Phone UI
Step	Action
10	For the <b>CFWD No Answer</b> state, In the CFWD Number screen, press the <b>DOWN</b> arrow key to scroll to the CFWD No. Rings screen and press <b>CHANGE</b> .
	1. Cfwd NoAns         Use ▼▲ to view         ▼         1. Cfwd State         On         Done         CFWD No.         ▼         2. Cfwd Number         Image         Image <tr< th=""></tr<>
11	Press the <b>NEXT</b> key to select the number of rings to apply to the phone for call forwarding incoming calls. Valid values are 1 to 20. Default is 1.
	When the phone receives an incoming call, and call forward is configured on the phone, the phone rings the number of times you specify in the No. Rings screen, and then forwards the call if there is no answer.
12	Press SET to save the change.
13	Press <b>DONE</b> to save CFWD All Number, CFWD All State, CFWD Busy Number, CFWD Busy State, CFWD No Answer Number, CFWD No Answer State, CFWD No Answer Rings. Each time you press <b>DONE</b> , the following "Apply Changes" screen displays.
	0 Cancel # Confirm

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L)	Aastra IP Phone UI
Step	Action
14	Press # to confirm the change(s) each time the "Apply Changes" screen displays.
	All changes are saved to the phone.





L.	Aastra IP Phone UI
Step	Action
3	Select a state using the UP and DOWN arrow keys.
	You can enable/disable a specific account on the phone with any or all of the following states. However, the configuration you set will apply to all accounts on the phone.
	• All - Enables CFWD All on the phone and forwards all incoming calls to the specified number.
	• <b>Busy</b> - Enables <b>CFWD Busy</b> on the phone and forwards incoming calls to a specified number if DND has been enabled OR if the phone is currently engaged in another call.
	<ul> <li>No Answer - Enables CFWD NoAns on the phone and forwards incoming calls to a specified number if the call has not been answered for the specified number of rings.</li> </ul>
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns</b> .
	You can also use the following keys if required:
	All Off - Disables all CFWD states for the phone.
	All On - Enables all CFWD states for the phone.
	Note: In "Phone" mode, the initial configuration you set for an account applies to all the accounts on the phone.
4	Press the <b>CHANGE</b> key for the mode you selected in step 2. Scroll to the CFWD State screen. This displays the current state of the mode you selected. In the following example, the CFWD All state is ON
	1. Cfwd All Use ▼▲ to view
	CFWD State Screen → Change Cfwd State On Done Change Next Set

Ø	Aastra IP Phone UI
Step	Action
5	Press the <b>CHANGE</b> key in the CFWD State screen. Press <b>NEXT</b> to toggle the state of the CFWD state ON or OFF. In the example in Step 4, you press <b>NEXT</b> to change the option to <b>OFF</b> .
6	Press the <b>SET</b> key to save the change.
7	In the CFWD State screen, press the <b>DOWN</b> arrow key to scroll to the CFWD Number screen and press <b>CHANGE</b> .
8	Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
9	Press <b>SET</b> to save the change.

Æ7	Aastra IP Phone UI
Step	Action
10	For the <b>CFWD No Answer</b> state, in the CFWD Number screen, press the <b>DOWN</b> arrow key to scroll to the CFWD No. Rings screen and press <b>CHANGE</b> .
	1. Cfwd NoAns         Use ▼▲ to view         1. Cfwd State         On         Done         CFWD No.         ▼         2. Cfwd Number         Qone         Change         3. No. Rings         Image         Image
11	Press the <b>NEXT</b> key to select the number of rings to apply to the phone for call forwarding incoming calls. Valid values are 1 to 20. Default is 1. When the phone receives an incoming call, and call forward is configured on the phone, the phone rings the number of times you specify in the No. Rings screen, and then forwards the call.
12	Press <b>SET</b> to save the change.
13	Press <b>DONE</b> to save CFWD All Number, CFWD All State, CFWD Busy Number, CFWD Busy State, CFWD No Answer Number, CFWD No Answer State, CFWD No Answer Rings. Each time you press <b>DONE</b> , the following "Apply Changes" screen displays.

L)	Aastra IP Phone UI
Step	Action
14	Press # to confirm the change(s) each time the "Apply Changes" screen displays.
	All the same changes are saved to all accounts on the phone.





Ø	Aastra IP Phone UI
Step	Action
3	Select a state for the account(s) in focus using the <b>UP</b> and <b>DOWN</b> arrow keys.
	You can enable/disable any or all of the following states for a specific account or for all accounts (with individual configurations):
	• All - Enables CFWD All for an account and forwards all incoming calls for that account, to the specified number. The phone number can be different between accounts.
	<ul> <li>Busy - Enables CFWD Busy for an account and forwards incoming calls to a specified number if DND has been enabled for that account OR if that account is currently engaged in another call. The phone number can be different between accounts.</li> </ul>
	<ul> <li>No Answer - Enables CFWD NoAns for an account and forwards incoming calls to a specified number if the call has not been answered for a specified number of rings. The phone number can be different between accounts.</li> </ul>
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns.</b>
	You can also use the following keys if required:
	All Off - Disables all CFWD states for the current account in focus or all accounts.
	All On - Enables all CFWD states for the current account in focus or all accounts.
4	Press the <b>CHANGE</b> key for the mode you selected in step 2. Scroll to the CFWD State screen. This displays the current state of the mode you selected. In the following example, the CFWD All state is ON
	1. Cfwd All Use ▼▲ to view
	CFWD State Screen → Change Cfwd State On Done → Change

Ø	Aastra IP Phone UI
Step	Action
5	Press the <b>CHANGE</b> key in the CFWD State screen. Press <b>NEXT</b> to toggle the state of the CFWD state ON or OFF. In the example in Step 4, you press <b>NEXT</b> to change the option to <b>OFF</b> .
6	Press the <b>SET</b> key to save the change.
7	In the CFWD State screen, press the <b>DOWN</b> arrow key to scroll to the CFWD Number screen and press <b>CHANGE</b> .
8	Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
9	Press <b>SET</b> to save the change.



	Aastra IP Phone UI
Step	Action
13	Press <b>DONE</b> to save CFWD All Number, CFWD All State, CFWD Busy Number, CFWD Busy State, CFWD No Answer Number, CFWD No Answer State, CFWD No Answer Rings. Each time you press <b>DONE</b> , the following "Apply Changes" screen displays.
14	Press # to confirm the change(s) each time the "Apply Changes" screen displays. All changes are saved to the phone for all accounts.

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<u>ک</u>	Aastra IP Phone UI
Step	Action
3	Select a state for the account(s) in focus using the <b>UP</b> and <b>DOWN</b> arrow keys.
	You can enable/disable any or all of the following states for an account:
	<ul> <li>All - Enables CFWD All for an account and forwards all incoming calls for that account, to the specified number.</li> </ul>
	• <b>Busy</b> - Enables <b>CFWD Busy</b> for an account and forwards incoming calls to a specified number if DND has been enabled for that account OR if the account is currently engaged in another call.
	<ul> <li>No Answer - Enables CFWD NoAns for an account and forwards incoming calls to a specified number if the call has not been answered for the specified number of rings.</li> </ul>
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns</b> .
	You can also use the following keys if required:
	All Off Key- Disables all CFWD states for the current account in focus.
	All On Key - Enables all CFWD states for the current account in focus.
	<b>CopytoAll Key</b> - Copies the call forward phone number and state of the Call Forward mode (All, Busy, No Answer) in focus to every Call Forward mode of that account. For example, if you have the cursor pointing at the "All" state and it is enabled and has a call forward phone number configured, pressing the <b>CopytoAll</b> Key enables the <b>Busy</b> state and the <b>NoAns</b> state and assigns the same phone number to both states.
	<b>Cancel Key</b> - Cancels any configuration you may have made without saving. To cancel a configuration, you must press this <b>CANCEL</b> key before pressing the <b>DONE</b> key.



Ø	Aastra IP Phone UI
Step	Action
5	Press the <b>CHANGE</b> key in the CFWD State screen. With the cursor in the " <b>State</b> " field, toggle the state ON and OFF by pressing the <b>CHANGE</b> key.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
6	Use the <b>DOWN</b> arrow key to scroll to the " <b>Number</b> " field. Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
	Use the <b>BACKSPACE</b> key if required to delete characters.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
7	Use the <b>DOWN</b> arrow key to scroll to the " <b>No. Rings</b> " field. Press the <b>CHANGE</b> key to select the number of rings to apply to the phone for call forwarding incoming calls. Valid values are 1 to 20. Default is 1.
	When the phone receives an incoming call, and call forward is configured on the phone, the phone rings the number of times you specify in the No. Rings screen, and then forwards the call.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
8	Press <b>DONE</b> in the CFWD State Screen to save all changes. Press <b>DONE</b> in the CFWD Mode Screen to save all changes.



Æ7	Aastra IP Phone UI
Step	Action
3	Select a state for the phone using the <b>UP</b> and <b>DOWN</b> arrow keys.
	You can enable/disable a specific account on the phone with any or all of the following states. However, the configuration you set will apply to all accounts on the phone.
	• All - Enables CFWD All on the phone and forwards all incoming calls to the specified number.
	• <b>Busy</b> - Enables <b>CFWD Busy</b> on the phone and forwards incoming calls to a specified number if DND has been enabled OR if the phone is currently engaged in another call.
	<ul> <li>No Answer - Enables CFWD NoAns on the phone and forwards incoming calls to a specified number if the call has not been answered for the specified number of rings.</li> </ul>
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns</b> .
	You can also use the following keys if required:
	All Off Key- Disables all CFWD modes.
	All On Key - Disables all CFWD modes.
	<b>CopytoAll Key</b> - Copies the call forward phone number and state of the Call Forward mode (All, Busy, No Answer) in focus to every Call Forward mode. For example, if you have the cursor pointing at the "All" state and it is enabled and has a call forward phone number configured, pressing the <b>CopytoAll</b> Key enables the <b>Busy</b> state and the <b>NoAns</b> state and assigns the same phone number to both states.
	<b>Cancel Key</b> - Cancels any configuration you may have made without saving. To cancel a configuration, you must press this <b>CANCEL</b> key before pressing the <b>DONE</b> key.



<b>A</b>	Aastra IP Phone UI
Step	Action
6	Use the <b>DOWN</b> arrow key to scroll to the " <b>Number</b> " field. Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
	Use the <b>BACKSPACE</b> key if required to delete characters.
7	Use the <b>DOWN</b> arrow key to scroll to the " <b>No. Rings</b> " field. Press the <b>CHANGE</b> key to select the number of rings to apply to the phone for call forwarding incoming calls. Valid values are 1 to 20. Default is 1.
	When the phone receives an incoming call, and call forward is configured on the phone, the phone rings the number of times you specify in the No. Rings screen, and then forwards the call.
8	Press <b>DONE</b> in the CFWD State Screen to save all changes. Press <b>DONE</b> in the CFWD Mode Screen to save all changes.
	Note: In "Phone" mode, the configuration applies to all the accounts on the phone.



Ø	Aastra IP Phone UI
Step	Action
3	Select an account using the UP and DOWN arrow keys.
	You can also use the following keys if required:
	All Off Key- Disables CFWD for all accounts on the phone.
	All On Key - Enables CFWD for all accounts on the phone.
	<ul> <li>CopytoAll Key - Copies all settings for the acccount you select, to all other accounts on the Call Forward Account screen. For example, if you have the cursor pointing at Screenname1, and you press the CopytoAll key, all of the CFWD settings for Screenname1 are copied to Screenname2 and Screenname3.</li> <li>Cancel Key - Cancels any configuration you may have made without saving. To cancel a configuration, you must press this CANCEL key before pressing the DONE key.</li> </ul>
4	After selecting an account, press <b>CHANGE</b> . The Call Forward Mode screen displays for the account you selected. Use the <b>UP</b> and <b>DOWN</b> arrow keys to scroll through each state type.
	Call Forward Mode Screen Services Dir Callers Call Forward Mode 1. All 2. Busy 3. No Answer Change CopytoAll - All Off Cancel - All On Done- Indicates CFWD Disabled
	In the above example, <b>CFWD All</b> is enabled as indicated by a checkmark ( $\checkmark$ ), <b>CFWD Busy</b> is enabled but no call forward phone number is configured as indicated by a $I$ , and <b>CFWD No Answer</b> is disabled, as indicated by an <b>X</b> .

Ø	Aastra IP Phone UI
Step	Action
5	Select a state for the selected account(s) using the <b>UP</b> and <b>DOWN</b> arrow keys.
	You can enable/disable any or all of the following states for a specific account or for all accounts (with individual configurations):
	• All - Enables CFWD All for an account and forwards all incoming calls for that account, to the specified number. The phone number can be different between accounts.
	<ul> <li>Busy - Enables CFWD Busy for an account and forwards incoming calls to a specified number if DND has been enabled for that account OR if that account is currently engaged in another call. The phone number can be different between accounts.</li> </ul>
	<ul> <li>No Answer - Enables CFWD NoAns for an account and forwards incoming calls to a specified number if the call has not been answered for a specified number of rings. The phone number can be different between accounts.</li> </ul>
	<b>Note:</b> If <b>CFWD All</b> AND <b>CFWD Busy</b> AND <b>CFWD NoAns</b> are all enabled (and/or if the account has DND enabled), the <b>CFWD All</b> settings take precedence over <b>CFWD Busy</b> and <b>CFWD NoAns</b> .
	You can also use the following keys if required:
	All Off Key- Disables all CFWD states for the selected account.
	All On Key - Enables all CFWD states for the selected account.
	<b>CopytoAll Key</b> - Copies the call forward phone number and state of the selected Call Forward mode (All, Busy, No Answer) to every Call Forward mode of that account. For example, if you have the cursor pointing at the " <b>All</b> " state and it is enabled and has a call forward phone number configured, pressing the <b>CopytoAll</b> Key enables the <b>Busy</b> state and the <b>NoAns</b> state and assigns the same phone number to both states.
	<b>Cancel Key</b> - Cancels any configuration you may have made without saving. To cancel a configuration, you must press this <b>CANCEL</b> key before pressing the <b>DONE</b> key.



Ø	Aastra IP Phone UI
Step	Action
7	Press the <b>CHANGE</b> key in the CFWD State screen. With the cursor in the " <b>State</b> " field, toggle the state ON and OFF by pressing the <b>CHANGE</b> key.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
8	Use the <b>DOWN</b> arrow key to scroll to the " <b>Number</b> " field. Enter a phone number to apply to the current state in focus. When the phone is in the state you specified, and a call comes into the phone, it forwards the call to the number you specify.
	Use the <b>BACKSPACE</b> key if required to delete characters.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
9	Use the <b>DOWN</b> arrow key to scroll to the " <b>No. Rings</b> " field. Press the <b>CHANGE</b> key to select the number of rings to apply to the phone for call forwarding incoming calls. Valid values are 1 to 20. Default is 1.
	When the phone receives an incoming call, and call forward is configured on the phone, the phone rings the number of times you specify in the No. Rings screen, and then forwards the call.
	<b>Note:</b> You can press the <b>AllAccts</b> key to copy the settings in the current Call Forward Settings screen for a specific call forward mode, to every account on the phone. Every account will have the same settings for that call forward mode.
10	Press <b>DONE</b> in the CFWD State screen to save all changes. Press <b>DONE</b> in the CFWD Mode screen to save all changes. Press <b>DONE</b> in the CFWD Account screen to save all changes.

## **Multicast Group Paging**

An Administrator or User can configure a specific softkey on the phone that allows you to send/receive a Real Time Transport Protocol (RTP) stream to/from pre-configured multicast address(es) without involving SIP signaling. This is called Group Paging on the IP phones. You can specify up to 5 listening multicast addresses.

An Administrator can use the following parameters in the configuration files to set Group Paging RTP Settings:

- paging group listening
- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- sofkeyN label, topsoftkeyN label, or expmodX keyN label
- softkeyN value, topsoftkeyN value, prgkeyN value, or expmodX keyN value

An Administrator or User can use the following parameters in the Aastra Web UI to set Group Paging RTP Settings:

- **Paging Listen Addresses** (*Basic Settings->Preferences->Group Paging RTP Settings*)
- <Paging> Softkey (Operation->Softkeys and XML, Operation->Programmable Keys, Operation->Expansion Keys)

## How it works

After pressing a configured "Paging" softkey on the phone, the Phone sends RTP to a preconfigured multicast address. Any phone in the local network then listens for RTP on the preconfigured multicast address. For both sending and receiving of the multicast RTP there is no sip signaling involved. The Phone displays the "Paging" message to the phone's LCD.

+

**Note:** Multicast RTP is one way only - from sender to the receiver (i.e. from sender to the multicast address (receiver)).

The phone uses the G711 uLaw CODEC for multicast RTP.

The recipient can drop the incoming page if required. The recipient can also set Do Not Disturb (DND) to ignore any incoming pages.



**Note:** For outgoing RTP multicasts, all other existing calls on the phone are put on hold.

For incoming RTP multicasts, the ringing display is dependant on the "Allow **Barge-In**" parameter. If this parameter is **disabled**, and there is no other call on the phone, then the paging is automatically played via the preferred audio device (see the model-specific *IP Phone User Guide* for setting Audio Mode on the phone).

If there is an existing call on the phone, the call initially displays in the ringing state. The user has the option to accept/ignore the call. If the "Allow Barge-In" parameter is **enabled**, the RTP multicast call barges in, and any existing calls are put on hold.

If an RTP multicast session already exists on the phone, and the phone receives another incoming RTP multicast session, the priority is given to the first multicast session and the second multicast session is ignored. The behavior for the incoming calls in this case is also based on the setting for the "**Allow Barge-in**" parameter. The incoming call is handled as if there were an existing call already on the phone.

# **Configuring Group Paging RTP Settings**

#### **Receiving End of Page Using the Configuration Files**

Use the following parameters to configure RTP streaming on the receiving end for Paging applications using the configuration files.

Parameter – paging group listening	Aastra Web UI:	Basic Settings->Preferences-> Group Paging RTP Settings
	Configuration Files	aastra.cfg, <mac>.cfg</mac>
Description	Specifies the multicas listens for incoming n <b>Note:</b> If this field is bl phone.	st address(es) and the port on which the phone nulticast RTP packets. ank, Paging listening capability is disabled on the
Format	Comma separated lis	t of IP Address in dotted decimal format:Port #
Default Value	N/A	
Range	N/A	
Example	paging group listening	g: 239.0.1.15:10000,239.0.1.20:15000

#### • paging group listening.

## **Receiving End of Page Using the Aastra Web UI**

Use the following procedure to configure RTP streaming on the receiving end for Paging applications using the Aastra Web UI.

1       Click on Basic Settings->Preferences->Group Paging RTP Settings.         1       Status System Information Operation Preferences       Preferences         Group Paging Rtp Settings       Paging Listen Addresses         Paging Listen Addresses       Otobal SIP Line 1         Line 2       Line 3         Line 4       Line 5         Line 9       Action VRI Conguration Server Firmware Update         2       In the "Paging Listen Addresses" text box, enter the multicast IP address(es) and port number on which the phone listens for incoming multicast RTP packets.         Note: Enter the IP address in dotted decimal format (for example, 239.0.1.15:10000,239.0.1.20:15000) If this field is blank, Paging listening capability is disabled on the phone.	$\mathbf{S}$	Aastra Web UI			
<ul> <li>In the "Paging Listen Addresses" text box, enter the multicast IP address(es) and port number on which the phone listens for incoming multicast RTP packets.</li> <li>Note: Enter the IP address in dotted decimal format (for example, 239.0.1.15:10000,239.0.1.20:15000) If this field is blank, Paging listening capability is disabled on the phone.</li> </ul>	1	Click on Basic Sett Status Syste Operation User Phon Softke Direct Rese Basic Setti Prefe Acco. Attvanced Line 2 Line 2 L	ings->Pref m Information Password e Lock et Lock tory t mgs rences int Configuration Settings ork at SIP 2 3 3 4 5 5 5 7 7 8 9 9 0 CRI guration Server vare Update Support x Support is Support	ferences->Group Paging RT Preferences Group Paging Rtp Settings Paging Listen Addresses	TP Settings.
3 Click Save Settings to save your changes.	2	In the "Paging List which the phone list Note: Enter the IP a 239.0.1.15:10000,2 the phone. Click	en Addres tens for inc address in o 39.0.1.20:1	ses" text box, enter the multic coming multicast RTP packets dotted decimal format (for exa 15000) If this field is blank, Pa save your changes.	cast IP address(es) and port number on  ample, aging listening capability is disabled on

### Sending End of Page Using the Configuration Files

Use the following parameters to configure RTP streaming on the sending end for Paging applications using the configuration files.

- softkeyN type, topsoftkeyN type, prgkeyN type, or expmodX keyN type
- sofkeyN label, topsoftkeyN label, or expmodX keyN label
- softkeyN value, topsoftkeyN value, prgkeyN value, or expmodX keyN value.

## Example

The following is an example of configuring RTP streaming for Paging applications using the configuration files:

```
softkey1 type: paging
softkey1 label: Group 1
softkey1 value: 239.0.1.15:10000
```



**Note:** The "softkeyN value" field allows for one multicast address entry only. The "paging group listening" parameter value allows for multiple multicast addresses.

## Sending End of Page Using the Aastra Web UI

Use the following procedure to configure RTP streaming for Paging applications using the Aastra Web UI.

Click on <b>Programm</b> or Click on <b>Expansion</b>	able ł	Keys.									
or Click on <b>Expansion</b>											
Click on Exnension											
Click on Expansion	Modu	ule Keys.									
Status System Information	Soft	kevs Config	ration								
Operation		liojo comige									
User Password Phone Lock	В	ottom Keys	Top Keys								
Softkeys and XML	Key	Туре	Label	Value	Lit	ne	Idle	Connected	I Incoming	Outgoing	Busy
Directory Reset	1	Paging	Group 1	224.0.0.2:10000	1		~	1	M	<b>V</b>	1
Basic Settings	2	None	~		1	*	4	<i></i>	4	~	V
Preferences	з	None	*		1	Y	4	4	4	1	V
Account Configuration Advanced Settings	4	None	~		1	Y	$\lor$	$\checkmark$	$ \varphi^{\prime} $	1	V
Network	5	None	*		1	*	$\checkmark$	$\checkmark$	$\checkmark$	1	4
Global SIP	6	None	~		1	$\sim$	$\checkmark$	$[\checkmark]$	V	$\checkmark$	V
Line 2	7	None	*		.1	1	$\checkmark$	$\checkmark$	$\checkmark$	<b>V</b>	4
Line 3	8	None	~		1	V	~	$[ \checkmark ]$	V	$\checkmark$	1
Line 4 Line 5	9	None	*		1	~	~	1	w	~	4
Line 6	10	None	*		1	4	$\checkmark$	<b>~</b>	4	$\checkmark$	V
Line 7	11	None	*		1	Y	$\checkmark$	4	$\checkmark$	1	V
Line 9	12	None	*		1	Y	$\checkmark$	1	1	>	4
Action URI	13	None	*		1	*	$\checkmark$	$\checkmark$	$\checkmark$	<b>V</b>	1
Configuration Server Firmware Update	14	None	*		1	$\sim$	4	$\checkmark$	$\checkmark$	$\checkmark$	<b>V</b>
TLS Support	15	None	~		1	1	$\checkmark$	<b>V</b>	$\mathbf{\nabla}$	<b></b>	1
802.1x Support Troubleshooting	16	None	*		1	~	4	$\checkmark$	4	$\checkmark$	1
riousieshooting	17	None	~		1	~	$\checkmark$	<b>V</b>	$\checkmark$	<ul> <li>Image: A start of the start of</li></ul>	1
	18	None	*		1	4	$\checkmark$	<i>¥</i>	4	$\checkmark$	Ŵ
	19	None	*		1	Y	$\checkmark$	4	$\checkmark$	×	$\checkmark$
		14972440	1000		1	1	10	1	1	4	4

$\mathbf{S}$	Aastra Web UI
4	In the " <b>Value</b> " field, enter a multicast IP address and a port number for the Paging key. When you press this key, the phone initiates an outgoing multicast RTP session to the specified address(es) using the specified port. (For example, <b>239.0.1.15:10000)</b> .
	<ul> <li>Notes:</li> <li>1. When you select Paging for the "Type" field, the "Line" field and state fields are disabled.</li> <li>2. The "Value" field allows for one multicast address entry only. The "Paging Listen Addresses" parameter in Step 2 allows for multiple multicast addresses.</li> </ul>
5	Click Save Settings to save your changes.

# Using the Configured Paging Key on the IP Phone

The following procedure describes the use of the Paging key. The procedures assumes you have already configured the Paging key using the configuration files or the Aastra Web UI.

**1.** Recipient of a Paging call can set a global "Do Not Disturb" (DND) to ignore any incoming pages.

**2.** For incoming Paging, the phones use the Intercom configuration settings. The incoming Page is dependent on the "Allow Barge-In" parameter setting and the "*Idling/On Call*" state.

Æ7	Aastra IP Phone UI
Step	Action
	On the IP Phone, press the softkey you configured for Paging (labeled as " <b>Group 1</b> " in the following illustration).
	Services Icom Dir Callers Tues Jan1 10:00am Group 1 LAB ACD
	The phone opens a multicast RTP session and an outgoing OR incoming phone screen displays as follows:
	Paging 00:01 Drop
	Press the <b>Drop</b> softkey to end the multicast RTP session and return to the idle screen. <b>Note:</b> If you enable global DND on the phone, the incoming multicast RTP session is dropped.

## Simplified Transfer Using BLF and Speeddial Keys

In Release 2.2, a transfer (Xfer) enhancement has been added to the original functionality of the BLF and Speeddial keys - **BLF/Xfer** and **Speeddial/Xfer**.

Prior to this release, the IP Phones supported BLF, Xfer, and Speeddial softkeys and programmable keys. The BLF key allows one or more extensions to be monitored, and once there is any state change with those extensions, the key shows the status of the monitored lines. The Xfer key allows a call to be transferred to other recipients blindly or consultatively. The Speeddial key allows a number to be dialed quickly by pressing one key configured for speeddialing. After answering a call, the recipient can transfer the call to an extension by:

- 1. Pressing Xfer key
- 2. Entering the number of the extension or pressing speeddial or BLF key.
- 3. Pressing Xfer key again

Release 2.2 introduces a simpler way of transferring calls using the keys called **BLF/Xfer** and **Speeddial/Xfer**. The **BLF/Xfer** key combines the BLF and Xfer key's functionality together allowing the user to transfer calls or use BLF with one key. Similarly, the **Speeddial/Xfer** key combines the Speeddial key and Xfer key's functionality together allowing the user to press one key to speeddial and transfer calls.

**Note:** It is recommended that you enable the "**switch focus to ringing**" parameter when using the BLF and Speeddial transfer key feature. For more information about this parameter, see "Ability to Disable Switching Focus to a Ringing Line When on a Call" on page 74.
# BLF/Xfer Key Requirements and Functionality

#### • BLF/Xfer and BLF

A BLF/Xfer key can be configured for subscribing to an extension and monitor the status of the extension, similar to the the BLF key functionality. Changes of the state of the monitored extension are indicated by a LED / Icon.

#### • BLF/Xfer and Blind Transfer Calls

When the focused line is in the "**Connected**" state, pressing the BLF/Xfer key transfers the call to the extension unconditionally, disregarding the status of the monitored extension.

If transferring a call to an extension fails, a message "*Transfer Failed*" displays on the phone, and you can reconnect the call (get the call back) by pressing the line key again.

#### • BLF/Xfer and Call forward

When the focused line is in the "**Ringing**" state, pressing the BLF/Xfer key forwards the call to the extension unconditionally, disregarding the status of the monitored extension.

#### • BLF/Xfer and Speeddial

When the focused line and the monitored extension are idle, pressing the BLF/Xfer key causes the phone to go offhook and dial the number of the extension.

#### Speeddial/Xfer Key Requirements and Functionality

The Speeddial/Xfer key has the following capabilities:

#### • Speeddial/Xfer and Speeddial

When the phone is in the "**Idle**" state, pressing the Speeddial/Xfer key causes the phone to go offhook and dial the predefined extension.

#### • Speeddial/Xfer and Blind Transfer

When the phone is connected to a call, pressing the Speeddial/Xfer key blind transfers the call to the predefined target.

If transferring a call fails, a message "*Transfer Failed*" displays, and you can reconnect the call (get the call back) by pressing the line key again.

#### • Speeddial/Xfer and Call Forward

When the phone is in the "**Ringing**" state, pressing the Speeddial/Xfer key forwards the call to the predefined extension.

# Configuring the BLF/Xfer Key and the Speeddial/Xfer Key Using the Configuration Files

You use the following parameters in the configuration files to configure the BLF/Xfer key and/or Speeddial/Xfer key on the IP Phone.

Softkey Parameters	Programmable Key Parameters	Expansion Module Parameters	
softkeyN type softkeyN label softkeyN value softkeyN line softkeyN states	prgkeyN type prgkeyN value prgkeyN line	expmodN keyN type expmodN keyN label expmodN keyN value expmodN keyN line	
Top Softkey Parameters			
topsoftkeyN type topsoftkeyN label topsoftkeyN value topsoftkeyN line			

#### **Examples:**

prgkey1 line: 1

softkey1 type: speeddialxfer
softkey1 label: BX7801
softkey1 value: 7801
softkey1 line: 1
softkey1 states: idle connected incoming outgoing busy
prgkey1 type: blfxfer
prgkey1 value: 35

# Configuring the BLF/Xfer Key and the Speeddial/Xfer Key Using the Aastra Web UI

You configure the BLF/Xfer key and/or the Speeddial/Xfer Key on the IP phone similar to configuring a BLF key or speeddial key using the Aastra Web UI. Use the following procedure to configure BLF/Xfer and/or Speeddial/Xfer..

	Aastra Web UI											
(	Click on Operation->	Softk	eys and	XMI								
c	or											
C	Click on Operation->	Prog	rammab	le Ke	evs.							
c	or .	•			•							
Ċ	Click on <b>Operation-&gt;</b>	Fxna	nsion K	evs.								
	onon operation -	-///		.,								
F	Bottom Kovs Tab (5	7i ov:	amnla)									
	Bottom Reys Tab (5	TICA	inpie).									
	Status											
	System Information	Sof	tkeys Con	ifigura	ation							
	User Password	L E	lottom Kevs	Τ	n Kevs							
	Phone Lock				p.uojo							
	Softkeys and XML Directory	Key	Туре		Label	Value	Line	Idle	e Connecte	d Incoming	Outgoing	Busy
	Reset	1	BLF/Xfer	*	BX35	35	global	<ul> <li>✓</li> </ul>	<b>V</b>	<b>V</b>	<b>~</b>	
	Basic Settings	2	BLF/Xfer	¥	BX7801	7801	global	<b>~</b>		<b>V</b>	<b>V</b>	
	Preferences	з	None	Y			1	V	$\checkmark$	1	$\checkmark$	
	Account Conliguration Advanced Settings	4	None	*			1	V	$\checkmark$	<b>V</b>	$\checkmark$	<b>V</b>
	Network	5	None	*			1	V V	$\checkmark$	1	$\checkmark$	V
	Global SIP	6	None	×			1	× V	$\checkmark$	1	$\checkmark$	<b>V</b>
	Line 1 Line 2	7	None	*			1	V V	$\checkmark$	<b>V</b>	$\checkmark$	<b>V</b>
	Line 3	8	None	*			1	V V	<b>V</b>	1	$\checkmark$	V
	Line 4	9	None	v			1	× ×	$\checkmark$	$\checkmark$	$\checkmark$	V
	Line 6	10	None	v			1	× ×	$\checkmark$	$\checkmark$	$\checkmark$	V
	Line 7	11	None	*			1	V V		V	$\checkmark$	
	Line 8 Line 9	12	None	*			1	V V	$\checkmark$	V	$\checkmark$	
	Action URI	13	None	~			1	V V				
	Configuration Server	14	None	*			1	V V				
	Firmware Update TLS Support	15	None	v			1	V V				
	802.1x Support	16	None	*			1					
	Troubleshooting	17	None	*			1					
		18	None				1					
		10	None	v			4					
		10	None	-						¥.	×.	
		20	Mana				4	A 44	1.11		- Lut	

0	Aastra Web UI						
	Top Keys Tab (57i e	example)					
	Status System Information Operation User Password Phone Lock	Softkeys Config	JURATION				
	Softkeys and XML	Key	Туре	Label	Value	Line	
	Directory Reset	1	Services 💙			global 🗸	
	Basic Settings	2	Directory 🗸 🗸			1	
	Preferences	з	Callers List 🛛 🗸			1	
	Account Conliguration Advanced Settings	4	BLF/Xfer 🗸 🗸	BX31	31	global 💌	
	Network	5	BLF/Xfer 🗸 🗸	BX7801	7801	global 💌	
	Global SIP Line 1						
	Line 2	-	None 💙			1	
	Line 3	7	None			1	
	Line 5	8	None			1	
	Line 6	9	None			1	
	Line 7 Line 8	10	None			1	
	Line 9						
	Action URI Configuration Server	Services					
	Firmware Update	XML Application URI:					
	TLS Support	XML Application Title:					
	802.1x Support Troubleshooting	BLF List URI:					
		Save Settings					
0							
2	Choose a key that you want to assign the BLF/Xter key or a Speeddial/Xter key to, and select <b>BLF</b> / <b>Xter</b> or <b>Speeddial/Xter</b> from the " <b>Type</b> " field						
3	In the "Label" field, enter a key label to assign to the BLF/Xfer key (for example, "BX35").						
4	In the "Value" field, enter the monitored extension (for example, "35").						
5	In the "Line" field, select the line for which you want to use the key functionality.						
6	On the Bottom Key t busy) for which you	ab, in the States want to use on th	field, select the s ne key.	state(s) (idle, o	connected, incomi	ng, outgoing,	
	Note: States are not	applicable to pro	ogrammable keys	S.			
7	Click Save Setting	s to save yo	our changes.				

#### Ability to Disable Switching Focus to a Ringing Line When on a Call

In Release 2.2, it is now possible to control the behavior of the phone when it receives an incoming call when it is already in a connected call. By default, and in the previous release behavior, the phone switches focus to the ringing line to enable the user to see who is calling them.

In Release 2.2, you can now turn off this functionality so that the phone now stays focused on the connected call. You can do this using the "**switch focus to ringing line**" parameter in the configuration files or the Aastra Web UI.



**Note:** If you configure the BLF/Xfer key(s) and/or Speeddial/Xfer key(s) on the phone, you can enable or disable the switching of the user interface focus to ringing line while the phone is in the connected state.

# Configuring "Switch Focus to Ringing Line" Using the Configuration Files

You use the following parameter in the configuration files to enable or disable "Switch Focus to Ringing Line":

Parameter – switch focus to ringing line	Aastra Web UI:Basic Settings->Preferences->GeneralConfiguration Filesaastra.cfg, <mac>.cfg</mac>
Description	Specifies whether or not the UI focus is switched to a ringing line while the phone is in the connected state.
Format	Boolean
Default Value	1 (enable)
Range	0 (disable) 1 (enable)
Example	switch focus to ringing line: 1

#### • switch focus to ringing line

# Configuring "Switch Focus to Ringing Line" Using the Aastra Web UI

Use the following procedure to enable or disable the "Switch Focus to Ringing Line" using the Aastra Web UI.



2	The " <b>Switch Focus to Ringing Line</b> " field is enabled by default. To disable this field, uncheck the box.				
3	Click Save Settings to save your changes.				

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# **Security Features**

#### 802.1x Support

The IP phones now support the IEEE 802.1x protocol. The 802.1x protocol is a standard for passing Extensible Authentication Protocol (EAP) over a wired or wireless Local Area Network (LAN).

The 802.1x protocol on the IP phone facilitates media-level access control, and offers the capability to permit or deny network connectivity, control LAN access, and apply traffic policy, based on user or endpoint identity. This feature supports both the EAP-MD5 and EAP-TLS protocols.

If 802.1x on the phone is enabled, the following screen displays during startup of the phone.



If the 802.1x failed to authenticate with the server, the phone continues it's normal startup process using DHCP. However, the network port on the phone may or may not be disabled, depending on the switch configuration.

# Certificates and Private Key Information

- If the certificates and private key are NOT stored in the phone:
  - the phone connects to an open unauthenticated VLAN and the certificates are downloaded.
     or
  - the phone connects using EAP-MD5 to a restricted VLAN and the certificates are downloaded.
- If the certificates and private key ARE stored in the phone, the phone uses them during the authentication process.
- If the phone uses EAP-TLS for successful authentication, after the phone reboots, it downloads the latest certificates and private key files to the phone.
- The private key uses AES-128 to encrypt the private key file.
- Switch Supplicant Mode The switch supports the following 2 modes:
  - **Single supplicant** This mode enables the port once any machine connected to this port is authenticated. For security reasons, the IP phone has the option to disable the pass-through port.
  - Multiple supplicants Using this mode, the switch can support multiple clients connected to same port. The switch distinguishes between the clients based on their MAC address.
- Factory default and recovery mode deletes all certificates and private keys, and sets the EAP type to **disabled**.

You can configure the 802.1x feature on the IP phone using the configuration files, the IP Phone UI, or the Aastra Web UI.

Note: If configuring 802.1x using the IP Phone UI, the certificates and private keys must already be configured and stored on the phone. Use the configuration files or the Aastra Web UI to load certificates and private keys.

#### Configuring the 802.1x Protocol Using the Configuration Files

Use the following parameters to configure the 802.1x Protocol on your phone using the configuration files.

For EAP-MD5 use:

- eap type
- identity
- md5 password
- pc port passthrough enabled

For EAP-TLS use:

- eap type
- identity
- **802.1x root and intermediate certificates** (use 1 root and 0 or 1 intermediate certificates)
- **802.1x local certificate** (use 1 local certificate)
- **802.1x private key** (1 private key that corresponds to local certificate)
- **802.1x trusted certificates** (0 or more trusted certificates (a maximum of 2))
- pc port passthrough enabled

Parameter – pc port passthru enabled	IP phone UI	Options->Administrator Menu-> Network Settings->Ethernet Link
	Aastra Web UI	Advanced Settings->Network-> Basic Network Settings
	<b>Configuration Files</b>	aastra.cfg, <mac>.cfg</mac>
Description	Enables or disables the	e LAN PC port on the phone.
Format	Integer	
Default Value	1 (enable)	
Range	0 (disable) 1 (enable)	
Example	pc port passthru enable	ed: 1

Parameter – eap type	IP Phone UI: Aastra Web UI: Configuration Files	Options->Administrator Menu-> Network Settings->Ethernet Link-> 802.1x Settings Advanced Settings->802.1x Support->General aastra.cfg, <mac>.cfg</mac>
Description	Specifies the type of a	authentication to use on the IP Phone.
Format	Integer	
Default Value	0 (disable)	
Range	0 (disable) 1 (MD5) 2 (TLS)	
Example	eap type: 1	

Parameter – identity	IP Phone UI: Aastra Web UI: Configuration Files	Options->Administrator Menu-> Network Settings->Ethernet Link-> 802.1x Settings->EAP-MD5 Settings Advanced Settings->802.1x Support->General aastra.cfg, <mac>.cfg</mac>	
Description	Specifies the identity or username used for authenticating the phone.		
	<b>Note:</b> The value you e Web UI at the path Ac 802.1x Support->Gen	enter for this parameter also displays in the Aastra Ivanced Settings-> eral->Identity.	
Format	String		
Default Value	N/A		
Range	N/A		
Example	identity: phone1		

Parameter – md5 password	IP Phone UI:	Options->Administrator Menu-> Network Settings->Ethernet Link-> 802.1x Settings->EAP-MD5 Settings	
	Aastra Web UI:	Advanced Settings->802.1x Support->	
	<b>Configuration Files</b>	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies the password used for the MD5 authentication of the phone.		
	<b>Note:</b> The value you enter for this parameter also displays in the Aastra Web UI at the path Advanced Settings-> 802.1x Support->EAP-MD5 Settings->MD5 Password. The password displays as "******".		
Format	String		
Default Value	N/A		
Range	N/A		
Example	md5 password: pass	word1	

Parameter – 802.1x root and intermediate certificates	Aastra Web UI: Configuration Files	Advanced Settings->802.1x Support-> EAP-TLS Settings aastra.cfg, <mac>.cfg</mac>
Description	Specifies the file nam certificates related to	e that contains the root and intermediate the local certificate.
Format	String	
Default Value	N/A	
Range	N/A	
Example	802.1x root and inter	mediate certificates: filename.pem

Parameter – 802.1x local certificate	Aastra Web UI: Configuration Files	Advanced Settings->802.1x Support-> EAP-TLS Settings aastra.cfg, <mac>.cfg</mac>
Description	Specifies the file nam	e that contains the local certificate.
Format	String	
Default Value	N/A	
Range	N/A	
Example	802.1x local certificat	e: filename.pem

Parameter – 802.1x private key	Aastra Web UI:	Advanced Settings->802.1x Support-> EAP-TLS Settings
	Configuration Files	aastra.cfg, <mac>.cfg</mac>
Description	Specifies the file nam	e that contains the private key.
Format	String	
Default Value	N/A	
Range	N/A	
Example	802.1x private key: fil	ename.pem

Parameter – 802.1x trusted certificates	Aastra Web UI:	Advanced Settings->802.1x Support-> EAP-TLS Settings
	Configuration Files	aastra.cfg, <mac>.cfg</mac>
Description	Specifies the file name	e that contains the trusted certificates.
Format	String	
Default Value	N/A	
Range	N/A	
Example	802.1x trusted certific	cates: filename.pem

#### Configuring the 802.1x Protocol Using the IP Phone UI

Use the following procedure to configure the 802.1x Protocol on your phone using the IP Phone UI.



**Note:** If configuring 802.1x using the IP Phone UI, the certificates and private keys must already be configured and stored on the phone. Use the configuration files or the Aastra Web UI to load certificates and private keys.

ą	Aastra IP Phone UI
Step	Action
1	Press 🖼 to enter the Options List.
2	Select Administrator Menu and enter your Administrator password.
3	Select Network Settings->Ethernet->Enable PassThru Port. Ethernet Link 1.LAN Port Link 2.PC Port Link 3.Enable PassThru Port 4.802.1x Settings - Select Done -

Ø	Aastra IP Phone UI
Step	Action
4	The PC PassThru Port is enabled by default. Enable PassThru Port Enable PassThru Port Yes
	- Change Cancel - Done - Note: The PC PassThru Port must be enabled to use the 802.1x Protocol.
5	Press Done.
6	Select 802.1x Settings.
7	Select 802.1x Mode. 802.1x Settings 1.802.1x Mode 2.EAP-MD5 Settings - Select Done -

ą	Aastra IP Phone UI
Step	Action
8	Select <b>EAP-MD5</b> to configure the phone to use MD5 authentication;
	or Select <b>EAP-TLS</b> to configure the phone to use TLS authentication.
	802.1x Mode         • Disabled         • EAP-MD5         • EAP-TLS         • Cancel - Done -         Note: The 802.1x Protocol is disabled by default. If you select EAP-TLS authentication, you must use the configuration files or the Aastra Web UI to configure the certificates and private key for the phone.
9	Press Done.
10	To configure MD5, select EAP-MD5 Settings.
11	Select Identity.
	EAP-MD5 Setting 1.Identity 2.MD5 Password - Select Done -

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Ø	Aastra IP Phone UI
Step	Action
12	Enter the identity or <b>username</b> used for authenticating the phone.
	Username Username:   - Backspace Nextspace - Cancel - - ABC Done -
13	Use the softkeys as applicable while entering the username; then press <b>Done</b> .
14	Enter the password used for authenticating the phone.
	Password Password:   - Backspace Nextspace - Cancel - - ABC Done -
15	Use the softkeys as applicable while entering the password; then press <b>Done</b> .
16	Press the 🖼 key to save your settings and exit from the IP Phone UI.

# Configuring the 802.1x Protocol Using the Aastra Web UI

Use the following procedure to configure the 802.1x Protocol on your phone using the Aastra Web UI.

3	Aastra Web UI	
8	Aastra Web UI Click on Advanced Settings->802.1x Support.          Status       System Information         Operation       B02.1x Support         User Password       Phone Lock         Softkeys and XML       B2AP Type         Directory       EAP Type         Reset       EAP-M05 Settings         Basic Settings       MD5 Password         Preferences       Account Configuration         Advanced Settings       Root and Intermediate Certificates         Line 1       Line 2         Line 3       Save Settings         Line 4       Save Settings	
	Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1X Support Troubleshooting	
То со	figure EAP-MD5:	
17	In the <b>"EAP Type</b> " field, select <b>EAP-MD5</b> . Valid values are: <b>Disabled</b> (Default), <b>EAP-MD5</b> , and <b>EAP-TLS</b> .	
18	In the " <b>Identify</b> " field, enter an Identity for the IP phone for which you are configuring 802.1x. For example, <b>phone1</b> .	
19	In the " <b>MD5 Password</b> " field, enter a password used for the MD5 authentication of the phone. For example, <b>password1</b> .	
20	Click Save Settings to save your changes.	

$\odot$	Aastra Web UI			
21	Click on Advanced Settings->Network->Basic Network Settings.			
	Status System Information Operation User Password Phone Lock Softkeys and XML	Network Settings Basic Network Settings DHCP	Enabled	
	Directory Reset Basic Settings Preferences Account Configuration Atvanced Settings Network Olobal SIP Line 1 Line 2 Line 3	IP Address Subnet Mask Gateway Primary DNS Secondary DNS LAN Port PC Port PassThru Enable/Disable PC Port	10.50.10.23 255.255.255.0 10.50.10.1 10.50.10.23 0.0.0 Auto Negotiation ▼ Enabled Auto Negotiation ▼	─ PC Port PassThru
	Line 4 Line 5 Line 6 Line 7 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1x Support Troubleshooting			Enable/Disable
22	The " <b>PC Port Pass1</b> the box.	<b>Thru Enable/Disable</b> " field	is enabled by default. To disat	ble this field, uncheck
	Note: The PC Port F	PassThru Enable Disable fie	eld must be enabled to use the	e 802.1x Protocol.
23	Click Save Setting	to save your change	S.	
То со	nfigure EAP-TLS:			
1	In the <b>"EAP Type</b> " fi Valid values are: <b>Dis</b>	eld, select EAP-TLS. abled (Default), EAP-MD5	, and <b>EAP-TLS</b> .	
2	In the " <b>Identify</b> " field For example, <b>phone</b>	l, enter an Identity for the IF 1.	phone for which you are con	figuring 802.1x.
3	In the " <b>Root and Int</b> intermediate certification of the second sec	ermediate Certificates" fie ates related to the local cert	ld, enter the filename that con ificate. For example: <b>root_Int</b>	tains the root and ermed_certifi.pem.
4	In the "Local Certifi localcertificate.pen	<b>cate</b> " field, enter the filenar n.	ne that contains the local certi	ficate. For example:

$\mathbf{S}$	Aastra Web UI			
5	In the "Private Key" privatekey.pem.	field, enter the filename th	nat contains the private key. For	example:
6	In the "Trusted Cert example: trusted_c	tificates" field, enter the fil ertificates.pem.	ename that contains the trusted	l certificates. For
7	Click Save Setting	to save your chang	es.	
8	Click on Advanced	Settings->Network->Bas Network Settings DHCP IP Address Subnet Mask Gateway Primary DNS Secondary DNS LAN Port PC Port PassThru Enable/Disable PC Port	ic Network Settings.	– PC Port PassThru Enable/Disable
9	The " <b>PC Port Pass</b> " the box. <b>Note:</b> The PC Port F	<b>Thru Enable/Disable</b> " field PassThru Enable Disable f	l is enabled by default. To disab ield must be enabled to use the	e this field, uncheck 802.1x Protocol.
10	Click Save Setting	to save your chang	es.	

#### Improved Configuration File Encryption

The IP phones have an encryption feature that allows Service Providers the capability of storing encrypted files on their server to protect against unauthorized access and tampering of sensitive information (i.e., user accounts, login passwords, registration information). Service Providers also have the capability of locking a phone to use a specific server-provided configuration only.

Only an System Administrator can encrypt the configurations files for an IP Phone. System Administrators use a password distribution scheme to manually pre-configure or automatically configure the phones to use the encrypted configuration with a unique key. From a Microsoft Windows command line, the System Administrator uses an Aastra-supplied encryption tool called "*anacrypt.exe*" to encrypt the <MAC>.tuz file.

The security feature described above prevents unauthorized parties from reading or writing the contents of the <MAC>.tuz file.

In Release 2.2, the IP phones include an improved encryption mechanism that:

- Prevents users from using the *AAC*. *tuz* file that does not match the user's phone MAC address.
- Renders the *<MAC>.tuz* file invalid if the user renames the file.
- Works with IP phone releases prior to Release 2.2.
- Provides compatibility between the previous encryption routine and the new decryption routine.

# **XML** Features

#### SIP NOTIFY Triggers an XML Event

In order for an XML push to bypass the NAT/firewall, in Release 2.2 the phone now supports a proprietary SIP NOTIFY event (aastra-xml) with or without XML content.

If XML content is provided in the SIP NOTIFY, it is processed directly by the phone as it is done for an XML PUSH.

If the content is empty in the SIP NOTIFY, the phone automatically triggers a new pre-configured action uri (action uri xml sip notify).

Example of a SIP NOTIFY with XML Content

```
NOTIFY sip:200@10.30.100.103:5060 SIP/2.0
Via: SIP/2.0/UDP 10.30.100.103:5060;branch=z9hG4bK7bbc1fac;rport
From: <sip:201@10.30.100.103:5060>;tag=81be2861f3
To: Jacky200 <sip:200@10.30.100.103:5060>
Contact: <sip:201@10.30.100.103>
Call-ID: 59638f5d95c9d301
CSeq: 4 NOTIFY
Max-Forwards: 70
Event: aastra-xml
Content-Type: application/xml
Content-Length: 115
<AastraIPPhoneExecute><ExecuteItem URI="http://10.30.100.39/XMLtests/
SampleTextScreen.xml"/></AastraIPPhoneExecute>
```

When the phone receives the SIP NOTIFY, the XML content is processed as any XML object. In the above example, the phone calls http://10.30.100.39/XMLtests/SampleTextScreen.xml after reception of the SIP NOTIFY.



**Note:** The phone supports all the current XML objects with all the existing limitations. For example if an AastraIPPhoneExecute is used, the embedded uri(s) can not be HTTPS based.

### Example of a SIP NOTIFY without XML Content

```
NOTIFY sip:200@10.30.100.103:5060 SIP/2.0
Via: SIP/2.0/UDP 10.30.100.103:5060;branch=z9hG4bK7bbclfac;rport
From: <sip:201@10.30.100.103:5060>;tag=81be2861f3
To: Jacky200 <sip:200@10.30.100.103:5060>
Contact: <sip:201@10.30.100.103>
Call-ID: 59638f5d95c9d301
CSeq: 4 NOTIFY
Max-Forwards: 70
Event: aastra-xml
Content-Type: application/xml
Content-Length: 0
```

When the phone receives the SIP NOTIFY, it will trigger the **action uri xml sip notify** parameter, if it has been previously configured using the configuration files or the Aastra Web UI. If the **action uri xml sip notify** parameter is not configured, the phone does not do anything.

On the phone side, a System Administrator can enable or disable this SIP NOTIFY feature using the configuration files or the phone Web UI.

Also to ensure that the SIP NOTIFY is coming from a trusted source, it is recommended that you enable the Whitelist feature (Whitelist Proxy parameter) on the IP phone. If enabled, and the phone receives a SIP NOTIFY from a server that is NOT on the whitelist, the phone rejects the message.

## Configuring XML SIP NOTIFY Feature Using the Configuration Files

You can enable or disable the XML SIP NOTIFY feature using the following parameter in the configuration file:

Parameter –	Aastra Web UI: Advanced Settings->Global SIP-> Advanced SIP Settings
	Configuration Files aastra.cfg, <mac>.cfg</mac>
Description	Enables or disables the phone to accept or reject an aastra-xml SIP NOTIFY message. <b>Note:</b> To ensure the SIP NOTIFY is coming from a trusted source, it is recommended that you enable the Whitelist feature ( <b>Whitelist Proxy</b> parameter) on the IP phone. If enabled, and the phone receives a SIP NOTIFY from a server that is NOT on the whitelist (i.e. untrusted server), the phone rejects the message.
Format	Boolean
Default Value	0
Range	0 - disabled 1 - enabled
Example	sip xml notify event: 1

• sip xml notify event

### Configuring XML SIP NOTIFY Feature Using the Aastra Web UI

Use the following procedure to enable/disable the XML SIP NOTIFY feature in the Aastra Web UI.



<b>S</b>	Aastra Web UI
2	The "XML SIP Notify" field is disabled by default. To enable this field, check the box.
	This field enables or disables the phone to accept or reject an aastra-xml SIP NOTIFY message.
	<b>Note:</b> To ensure the SIP NOTIFY is coming from a trusted source, it is recommended that you enable the Whitelist feature ( <b>Whitelist Proxy</b> parameter) on the IP phone. If enabled, and the phone receives a SIP NOTIFY from a server that is NOT on the whitelist (i.e. untrusted server), the phone rejects the message
3	Click Save Settings to save your changes.

# Configuring the Action URI for an empty XML SIP NOTIFY using the Configuration Files

If the content is missing in the SIP NOTIFY message received by the phone, the phone automatically uses the value you specify for the following parameter:

Parameter – action uri xml sip notify	Aastra Web UI:Advanced Settings->Action URIConfiguration Filesaastra.cfg, <mac>.cfg</mac>
Description	Specifies the URI to be called when an empty XML SIP NOTIFY is received by the phone. Note: The sip xml notify event parameter must be enabled.
Format	HTTP(s) server path or Fully Qualified Domain Name
Default Value	N/A
Range	N/A
Example	action uri xml sip notify: http://myserver.com/myappli.xml

#### • action uri xml sip notify

# Configuring the Action URI for an empty XML SIP NOTIFY using the Aastra Web UI

Use the following procedure to configure the Action URI for an empty XML SIP NOTIFY using the Aastra Web UI.



### **RTP and Multicast RTP via XML**

The IP Phones have new XML commands an Administrator can use with the "AastraIPPhoneExecute" object. These commands allow the phone to send/ recieve an RTP stream to/from given multicast/unicast addresses (without involving SIP signaling). The new XML commands to use with the AastraIPPhoneExecute object in an XML application are:

- **RTPRx** (Receive (Rx) a Unicast RTP stream or stop receiving a Unicast/ Multicast RTP streams)
- **RTPTx** (Transmit (Tx) a Unicast RTP stream or stop transmitting a Unicast/ Multicast RTP streams)
- **RTPMRx** (Receive (Rx) a Multicast RTP stream)
- **RTPMTx** (Transmit (Tx) a Multicast RTP stream)

The phones support the following RTP stream format:

- G.711 mu-law CODEC
- 20 ms packet size



**Note:** If one of the previous commands is sent to the phone which is already in a call, the phone places the current call on hold and the RTP streaming commands are performed using a new audio path.

#### RTPRx

The RTPRx URI instructs the phone to **receive** a Unicast RTP stream or **stop receiving** Unicast or Multicast RTP streams. The RTPRx formats to use with the AastraIPPhoneExecute object in the URI are:

- RTPRx:i:p:v
- RTPRx:Stop

Where	
i	Specifies the IP Address from which the stream is coming.
р	Specifies the UDP port on which to receive the RTP stream. Ensure that this is a number greater than 3100.
v (optional)	Indicates the optional volume setting that controls the volume of the stream playout. The supplied value is an offset to the current volume setting. After the initial volume level gets set and the stream starts, you can manually change the volume level as required using this "v" option. If you do not specify the optional volume parameter, the phone uses the current volume setting on the phone as the default.
Stop	Specifies to stop any active RTP stream from being received on channel one.
<pre>21000 with <aastral 21000="" <aastral="" <example:="" exam="" example:="" pre="" s<="" the="" this="" voice="" with=""></aastral></pre>	IPPhoneExecute> ecuteItem URI = "RTPRx:10.30.100.20:21000:3"> IPPhoneExecute> eple receives a unicast RTP stream from 10.30.100.20 at UDP port 21000 with settings as used in the previous RTP stream.
<aastral <ex <aastral <b>Example:</b> This exam</aastral </ex </aastral 	IPPhoneExecute> ecuteItem URI = "RTPRx:10.30.100.20:21000"> IPPhoneExecute> nple stops an incoming active multicast/unicast RTP stream.
<aastral <ex <aastral< th=""><td>iPPhoneExecute&gt; ecuteItem URI="RTPRx:Stop"&gt; IPPhoneExecute&gt;</td></aastral<></ex </aastral 	iPPhoneExecute> ecuteItem URI="RTPRx:Stop"> IPPhoneExecute>



**Note:** Once the RTPRx command in the URI is sent to the phone, it stops the phone from listening to any previous RTPRx or RTPMRx commands. The phone starts listening based on the most recent RTPRx command received. This behavior also applies to the RTPRx:Stop and RTPMRx:Stop commands as well but does not enable any further listening.

### RTPTx

The RTPTx URI instructs the phone to **transmit** a Unicast RTP stream or to **stop transmitting** Unicast or Multicast RTP streams. The RTPTx formats to use with the AastraIPPhoneExecute object in the URI are:

- RTPTx:i:p
- RTPTx:Stop

Where		
i	Specifies the IP Address to which an RTP stream is transmit ed.	
р	Specifies the UDP port on which to transmit the RTP stream. Ensure that this is a number greater than 3100.	
Stop	Specifies to stop any active RTP stream from being transmitted on channel one.	
<b>Example</b> : This example sends a unicast RTP stream to 10.30.100.20 on UDP port 21000.		
<pre><aastraipphoneexecute>      <executeitem uri="RTPTx:10.30.100.20:21000">      <aastraipphoneexecute></aastraipphoneexecute></executeitem></aastraipphoneexecute></pre>		
<b>Example:</b> This example stops an outgoing active multicast/unicast RTP stream.		
<aastra <ex <aastra< th=""><th>IPPhoneExecute&gt; ecuteItem URI="RTPTx:Stop"&gt; IPPhoneExecute&gt;</th></aastra<></ex </aastra 	IPPhoneExecute> ecuteItem URI="RTPTx:Stop"> IPPhoneExecute>	

#### RTPMRx

The RTPMRx URI instructs the phone to **receive** a Multicast RTP stream. The RTPMRx format to use with the AastraIPPhoneExecute object in the URI is:

#### • RTPMRx:i:p:v

Where		
i	Specifies the multicast IP Address from which to receive an RTP stream.	
р	Specifies the UDP port on which to receive the RTP stream. Ensure that this is a number greater than 3100.	
v (optional)	Indicates the optional volume setting that controls the volume of the stream playout. The supplied value is an offset to the current volume setting. After the initial volume level gets set and the stream starts, you can manually change the volume level as required using this "v" option. If you do not specify the optional volume parameter, the phone uses the current volume setting on the phone as the default.	
<b>Example</b> : This example receives a multicast RTP stream from 239.0.1.20 on UDP port 21000 with the voice settings at -3 levels less than the current offset.		
<pre><aastraipphoneexecute>     <executeitem uri="RTPMRx:239.0.1.20:21000:-3"> <aastraipphoneexecute></aastraipphoneexecute></executeitem></aastraipphoneexecute></pre>		
<b>Example:</b> This example receives a multicast RTP stream from 239.0.1.20 at UDP port 21000 with the voice settings as used in the previous RTP stream.		
<pre><aastraipphoneexecute>      <executeitem uri="RTPMRx:239.0.1.20:21000">      </executeitem></aastraipphoneexecute></pre>		

# →

**Note:** Once the RTPMRx command in the URI is sent to the phone, it stops the phone from listening to any previous RTPRx or RTPMRx commands. The phone starts listening based on the most recent RTPMRx command received. This behavior also applies to the RTPRx:Stop and RTPMRx:Stop commands as well, but the "Stop" command does not enable any further listening.

### RTPMTx

The RTPMTx URI instructs the phone to transmit a Multicast RTP stream. The RTPMTx format to use with the AastraIPPhoneExecute object in the URI is:

#### • RTPMTx:i:p

Where		
i	Specifies the Multicast IP Address to which an RTP stream is transmitted.	
р	Specifies the UDP port on which to transmit the RTP stream. Ensure that this is a number greater than 3100.	
<b>Example</b> : This example sends a multicast RTP stream to 239.0.1.20 from UDP port 21000.		
<pre><aastraipphoneexecute>       <executeitem uri="RTPMTx:239.0.1.20:21000">       <aastraipphoneexecute></aastraipphoneexecute></executeitem></aastraipphoneexecute></pre>		

#### Text Wrap for XML TextMenu Items

The AastraIPPhoneTextMenu object now supports text wrapping on two lines for its items. This is done using a new attribute called "**wrapList**". This attribute allows you to specify the text wrapping to an additional line rather than truncating and dropping the text.



**Note:** If the menu item begins with more than one large word (with no spaces or hyphens), the first full word displays on the first line truncated and the next full word displays on the next line.

The example below illustrates the IP Phone text wrapping prior to 2.2, and the new text wrapping in Release 2.2.



You can use the RIGHT arrow key to scroll the screen to the right to view additional text.

# Configuring the Text Wrapping Parameter

You use the following parameter with the XML AastraIPPhoneTextMenu object:

wrapList

#### **Example**

```
<AastraIPPhoneTextMenu destroyOnExit'"yes" wrapList="yes"....
.....
<AastraIPPhoneTextMenu>
```

### **Non-Blocking HTTP Connections**

In Release 2.2, the IP Phones support a non-blocking HTTP connection feature. This feature allows the user to continue using the phone when there is a delay during an HTTP connection while the phone is waiting for the HTTP server to respond. This feature also allows a user to abort the connection and perform other operations on the phone (which will abort the HTTP connection automatically). A user can also abort the HTTP loading by pressing the GOODBYE key while the phone is displaying "Loading Page......".



#### **Polling Action URI**

Another way to reach a phone behind a NAT/firewall is to have the phone make an XML call at periodic intervals. A new Action URI was added in Release 2.2 called **action uri poll** which commands the phone to perform an XML call at configurable intervals.

An Administrator can specify the URI to be called and specify the interval between polls using the configuration files or the Aastra Web UI. Configuration of this feature is dynamic (no reboot required).

#### Configuring Polling Action URI via the Configuration Files

Use the following parameters to configure the polling Action URI on the IP Phones.

- action uri poll
- action uri poll interval

Parameter – action uri poll	Aastra Web UI         Advanced Settings->Action URI           Configuration Files         aastra.cfg, <mac>.cfg</mac>
Description	Specifies the URI to be called every "action uri pool interval" seconds.
Format	HTTP(s) server path or Fully Qualified Domain Name
Default Value	N/A
Range	N/A
Example	action uri poll: http://myserver.com/myappli.xml

Parameter – action uri poll interval	Aastra Web UIAdvanced Settings->Action URIConfiguration Filesaastra.cfg, <mac>.cfg</mac>
Description	Specifies the interval, in seconds, between calls from the phone to the "action uri poll".
Format	Integer
Default Value	0 (disabled)
Range	N/A
Example	action uri poll interval: 60
# Configuring Polling Action URI via the Aastra Web UI

Use the following procedure to configure polling Action URI using the Aastra Web UI.

1       Click on Advanced Settings->Action URI.         1       Status System Information Operation User Password Perfore Lock Software and Mut. Preferences Account Configuration Network Global SiP Line 3 Line 3 Line 4 Line 2 Line 3 Line 6 Line 6 Line 8 Line 9 Line 8 Line 8 Line 8 Line 9 Line 9 Line 8 Line 9 Line 8 Line 9 Line 9 Li	3	Aastra Web Ul	
Action URI         Configuration Server         Firmware Update         TLS Support         802.1x Support         Troubleshooting         2         In the " <b>Poli</b> " field, enter a URI to be called every "action uri pool interval" seconds. Enter the value         a URI format. For example, http://myserver.com/myappli.xml.	1	Aastra web u Click on Advanced Status System Information Operation User Password Phone Lock Softkeys and XML Programmable Keys Directory Reset Basic Settings Preferences Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 6 Line 6 Line 7 Line 8 Line 9	Settings->Action URI.   Action URI Configuration   Event   StartUp   StartUp   Successful Registration   Incoming Call   Outgoing Call   Offlook   Onhook   Onhook   XML SIP Notify   Event   Poll   Interval   Save Settings
<ul> <li>In the "Interval" field, enter the interval, in seconds, between calls from the phone to the "action poll". The value of "0" is disabled.</li> <li>Click Save Settings to save your changes.</li> </ul>	2 3 4	Action URI Configuration Server Firmware Update TLS Support 802.1x Support Troubleshooting	nter a URI to be called every "action uri pool interval" seconds. Enter the value in xample, http://myserver.com/myappli.xml. d, enter the interval, in seconds, between calls from the phone to the "action uri 0" is disabled.

# **Deployability Features**

#### SIP Registration Status in Aastra Web UI

The IP Phones now show the SIP registration status on the IP Phone's Network Status screen in the Aastra Web UI.

If there are accounts configured on the IP Phone, their SIP status displays in the Network Status window. The 51i displays only one status line. All other model phones display the status of up to 9 lines. The following is an illustration of the Network Status screen in the Aastra Web UI with SIP status displayed.

Status				
System Information	Network Status			
Operation				
User Password	Attribute	LAN Port	PC Port	
Phone Lock	Link State	Up	Down	
Soffkeys and XML	Negotiation	Auto	Auto	
Directory	Speed	100Mbps	10Mbps	
Paeic Sottinge	Duplex	Full	Half	
Preferences				-
Account Configuration	MAC Address:	00-08-5D-16-10-49		
Advanced Settings				
Network	Hardware Information			
Global SIP	Attribute	Value		
Line 1	Platform	57i Revision 0		
Line 2				
Line 3	Firmware Information			
Line 4	Attribute	Value		
Line 5	Firmware Version	2.2.0.157		
Line 6	Firmware Release Code	SIP		
Line 7	Boot Version	1.1.0.1182		
Line 8 Line 9	Date/Time	Feb 13 2008 05:19:55		
Action LIDI				
Configuration Server	SIP Status			
Firmware Undate	Line	SIP Account	Status	Backup Registrar Used?
TLS Support				
802.1x Support	1	9057604603@anasippr	oxy.aastra.com:5060 Registered	d Yes
Troubleshooting	2	9057604603@anasippr	oxy.aastra.com:5060 Registered	Yes
	3	9057604603@anasippr	oxy.aastra.com:5060 Registered	l Yes
, ,	4	9057604601@anasippr	oxy.aastra.com:5060 401	No

#### SIP Status on the Network Status Screen

The following table describes the status conditions that can display for an account(s).

Status Condition	Desription		
Registered	Displays this status on accounts that HAVE been registered with the SIP proxy server.		
	Example:	Status	Backup Registrar Used2
		Deniatana	Used:
	9057604603@anasipproxy.aastra.com:506	UREGISTERE	a ies
	where Account Number is "1" SIP Account is "9057604603@anasipproxy.aastra.c Status is "Registered" Backup registrar is used ("Yes")	om" on port "	5060"
SIP Error Number	Displays on accounts when registration fails with the SIP proxy server.		erver.
	Example		
		0 to to a	Backup Registrar
		Status	usea?
	4 905/604601@anasipproxy.aastra.com:506	0401	No
	where Account Number is "4" SIP Account is "9057604601@anasipproxy.aastra.c Status is "401" - Unregistered if SIP registration fails Backup registrar is used ("No")	om" on port "	5060"

# Support for HTTP and HTTPS Configuration Servers on Non-Standard Ports

Prior to Release 2.2, the IP Phones used the default port numbers for loading configuration over HTTP (Port 80), HTTPS (Port 443) and DHCP option 66. Now the IP Phones allow an Administrator to configure the HTTP/HTTPS port number when required for configuration servers (

Two new parameters for configuring the HTTP and HTTPS port numbers are as follows:

- http port
- https port

An Administrator can configure these parameters using the configuration files, the IP Phone UI, or the Aastra Web UI.

## Configuring HTTP and HTTPS Port Using the Configuration Files

An Administrator can use the following parameters in the configuration files to configure the HTTP or HTTPS ports.

Parameter – http port	IP Phone UI:	Options->Administrator Menu-> Configuration Server->HTTP Settings	
	Aastra Web UI:	Advanced Settings->Configuration Server-> Settings	
	<b>Configuration Files</b>	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies the HTTP port that the server uses to load the configuration to the phone over HTTP.		
Format	Integer		
Default Value	80		
Range	1 through 65535		
Example	http port: 1025		

Parameter –	IP Phone UI:	Options->Administrator Menu->	
https port	Configuration Server->HTTPS Settin		
		HTTPS Client->Download Port	
	Aastra Web UI:	Advanced Settings->Configuration Server->	
		Settings	
	Configuration Files	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies the HTTPS port that the server uses to load the configuration		
	to the phone over HTTPS.		
Format	Integer		
Default Value	443		
Range	1 through 65535		
Example	https port: 1026		

# Configuring HTTP and HTTPS Port Using the IP Phone UI

Use the following procedure to configure the HTTP or HTTPS port using the IP Phone UI.

ą	Aastra IP Phone UI		
Step	Action		
Configuring HTTP Port			
1	Press Options->Administrator Menu.		
2	Enter your Administrator password and press Enter.		
3	Select Configuration Server->HTTP Settings->HTTP Port.		

Ø	Aastra IP Phone UI			
Step	Action			
4	Enter the HTTP port that the server uses to load the configuration to the phone over HTTP.			
	Press Done.			
5	Press <b>Options</b> to save your changes and exit from the Options Menu.			
Config	nfiguring HTTPS Port			
1	Press Options->Administrator Menu.			
2	Enter your Administrator password and press Enter.			
3	Select Configuration Server->HTTPS Settings->HTTPS Client->Download Port.			
4	Enter the HTTPS port that the server uses to load the configuration to the phone over HTTPS.			
5	Press <b>Options</b> to save your changes and exit from the Options Menu.			

# Configuring HTTP and HTTPS Port Using the Aastra Web UI

Use the following procedure to configure the HTTP or HTTPS port using the Aastra Web UI.

$\mathbf{S}$	Aastra Web UI					
Config	onfiguring HTTP Port					
1	Click on Advanced Settings->Configuration Server->Settings.					
	StatusSystem InformationOperationUser PasswordPhone LockSoftleys and XMLDirectoryResetBasic SettingsPreferencesAccount ConfigurationAdvanced SettingsNetworkGlobal SIPLine 1Line 2Line 3Line 4Line 5Line 6Line 7Line 8Line 9Action URIConfiguration ServerFirmware UpdateTLS SupportTroubleshooting	Configuration Server Settings Settings Download Protocol TFTP Server TFTP Path Alternate TFTP Alternate TFTP Path Use Alternate TFTP Alternate TFTP Path TFP Path FTP Password HTTP Server HTTP Server HTTP Server HTTP Server HTTPS Server HTTPS Path HTTPS Path	HTTP   10.50.10.68   0.0.0   Enabled  B0  443			
2	In the "Download Procotol" fi	eld, select HTTP.				
3	In the " <b>HTTP Server</b> " field, enter the HTTP server that downloads the configuration to the phone. Enter the value in the format 0.0.0.0. For example, <b>10.40.50.90</b> .					
4	In the " <b>HTTP Path</b> " field, enter the HTTP path of the HTTP server.					
	IT the IP phone's configuration and tirmware files are located in a sub-directory beneath the server's HTTP root directory, the relative path to that sub-directory should be entered in this field.					
5	In the " <b>HTTP Port</b> " field, enter the HTTP port that the server uses to download the configuration to the phone. Default value is 80. Valid values are 1 through 65535.					
6	Click Save Settings to save your changes.					

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0	Aastra Web UI						
Config	Configuring HTTPS Port						
1	Click on Advanced Settings->Configuration Server->Settings.						
	Status         System Information         Operation         User Password         Phone Lock         Softkeys and XML         Directory         Reset         Basic Settings         Preferences         Account Configuration         Advanced Settings         Network         Global SIP         Line 1         Line 2         Line 3         Line 4         Line 5         Line 6         Line 7         Line 8         Line 9         Action URI         Configuration Server         Firmware Update         TLS Support         802.1x Support         Troubleshooting	Configuration Server Settings Settings Download Protocol TFTP Server TFTP Path Alternate TFTP Alternate TFTP Path Use Alternate TFTP FTP Server FTP Path FTP Vasename FTP Password HTTP Server HTTP Server HTTP Server HTTP Server HTTPS Server HTTPS Path HTTPS Port	HTTPS				
2	In the "Download Procotol" f	ield, select HTTPS.					
3	In the " <b>HTTPS Server</b> " field, enter the HTTPS server that downloads the configuration to the phone. Enter the value in the format 0.0.0.0. For example, <b>10.40.50.90</b> .						
4	In the "HTTPS Path" field, enter the HTTPS path of the HTTPS server.						
	If the IP phone's configuration and firmware files are located in a sub-directory beneath the server's HTTPS root directory, the relative path to that sub-directory should be entered in this field.						
5	In the "HTTPS Port" field, enter the HTTPS port that the server uses to download the configuration to the phone. Default value is 443. Valid values are 1 through 65535.						
6	Click Save Settings to save your changes.						

## Ability to Set TFTP and FTP Path for Configuration Servers

The IP Phones now allow the acquisition of configuration files from subdirectories when connecting to either a TFTP or FTP server. An Administrator can specify a TFTP path, an alternate TFTP path, or an FTP path for where the configuration files reside on the TFTP or FTP server. An Administrator can configure this path using the configuration files, the IP Phone UI, or the Aastra Web UI.

## Configuring a TFTP or FTP Path Using the Configuration Files

Use the following parameters to configure a TFTP path or FTP path on the IP Phones.

- tftp path
- alternate tftp path
- ftp path

Parameter –	Aastra Web UI	Advanced Settings->	
tftp path		Configuration Server->Settings	
	IP Phone UI	Options->Administrator Menu->	
		Configuration Server->TFTP Settings	
	Configuration Files	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies the path name for which the configuration files reside on the TFTP server for downloading to the IP Phone.		
	<b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>ipphone\57i\configfiles</i> .		
Format	String		
Default Value	N/A		
Range	Up to 64 alphanumeric characters		
Example	tftp path: configs\tftp		

Parameter – alternate tftp path	Aastra Web UI	Advanced Settings-> Configuration Server->Settings	
	IP Phone UI	Options->Administrator Menu->	
	Configuration Files	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies a path name for which the configuration files reside on an alternate TFTP server for downloading to the IP Phone.  Note: Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>inphone\57i\configfiles</i> .		
Format	String		
Default Value	N/A		
Range	Up to 64 alphanumeric characters		
Example	alternate tftp path: configs\alternate		

	-		
Parameter –	Aastra Web UI	Advanced Settings->	
ftp path		Configuration Server->Settings	
	IP Phone UI	Options->Administrator Menu->	
		Configuration Server->FTP Settings	
	Configuration Files	aastra.cfg, <mac>.cfg</mac>	
Description	Specifies a path name for which the configuration files reside on an FTP server for downloading to the IP Phone.		
	<b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>ipphone\57i\configfiles</i> .		
Format	String		
Default Value	N/A		
Range	Up to 64 alphanumeric characters		
Example	ftp path: configs\ftp		

# Configuring a TFTP or FTP Path Using the Aastra Web UI

Use the following procedure to configure a TFTP path or FTP path on the IP Phones.

$\mathbf{S}$	Aastra Woh III				
Config	Configuring TFTP and Alternate TFTP Path				
1	Click on Advanced Set	tings->Configura	ation Server->Settings.		
		Status System Information	Configuration Server Settings		
	TFTP Path	Operation User Password Phone Lock	Settings Download Protocol	TFTP	
		Softkeys and XML Programmable Keys Directory Decet	TFTP Server	10.50.10.68	
	Alternate TFTP	Basic Settings Preferences	Alternate TFTP     Alternate TFTP Path	0.0.0	
	Path	Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 7 Line 6 Line 7 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1x Support Troubleshooting	Use Alternate TFTP FTP Server FTP Path FTP Username FTP Password HTTP Server HTTP Path HTTP Path HTTP Pot HTTPS Path HTTPS Path HTTPS Pott Auto-Resync Mode Time (24-hour) XML Push Server List(Approved IP Addresses)	■ Enabled	
2	In the " <b>TFTP Path</b> " field enter the path name for which the configuration files reside on the TFTP server for downloading to the IP Phone. <b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>ipphone\57i\configfiles</i> . You can enter up to 64 alphanumeric characters.				
3	If an alternate TFTP server is used in the network, in the " <b>Alternate TFTP Path</b> " field enter the path name for which the configuration files reside on the alternate TFTP server for downloading to the IP Phone. <b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX</i> . For example				
4	ipphone\57i\configfile	s. You can enter u	up to 64 alphanumeric characters.		
4	Save Settings	to save your c	manges.		

8	Aastra Web UI				
Confi	Configuring FTP Path				
1	Click on Advanced Set	tings->Configur	ation Server->Settings.		
	FTP Path	Status System Information Operation User Password Phone Lock Softkeys and XML Programmable Keys Directory Reset Basic Settings Preferences Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 7 Line 8 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1X Support 102.1X Support 102.1X Support 102.1X Support	Configuration Server Settings Setting Download Protocol TFTP Server TFTP Path Alternate TFTP Atternate TFTP PTP Server FTP Path FTP Vsername FTP Path FTP Vsername FTP Password HTTP Server HTTP Path HTTP Pot HTTPS Server HTTPS Path HTTPS Pot AttoResync Mode Time (24-hour) XML Push Server List(Approved IP Addresses)	FTP       Image: Constraint of the second seco	
<ul> <li>In the FIP Path field, enter the path name for which the configuration files reside on the FIP server for downloading to the IP Phone.</li> <li>Note: Enter the path name in the form <i>folderX\folderX\folderX\folderX</i>. For example, <i>ipphone\57i\configfiles</i>. You can enter up to 64 alphanumeric characters.</li> </ul>					
3	Click Save Settings	to save your o	changes.		

## Configuring a TFTP or FTP Path Using the IP Phone UI

Use the following procedure to configure a TFTP or FTP path using the IP Phone UI.

Q	Aastra IP Phone UI	
Step	Action	
Config	guring TFTP Path	
1	Press Options->Administrator Menu.	
2	Enter your Administrator password and press Enter.	
3	Select Configuration Server->TFTP Settings->Primary TFTP Path.	
4	Enter the enter the path name for which the configuration files reside on the primary TFTP server for downloading to the IP Phone. To enter the "\" character, press the "#" key several times to cycle through the characters until you see the "\" character.	
	<b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>ipphone\57i\configfiles</i> . You can enter up to 64 alphanumeric characters.	
	Primary TFTP Path         Primary TFTP Path         iphone\577\configfiles         - Backspace Nextspace -         Cancel -         - ABC         Done -	
	55i/57i/57i CT51i/53iFor 55i, 57i, and 57i CT:Press BACKSPACE to delete characters.Press BACKSPACE to delete characters.Press ABC to toggle between upper and lower case letters.Press NEXTSPACE to add a blank space.Press CANCEL to cancel the entry for the TFTP path.For 51i, and 53i:Press NEXT to move to the next option in the TFTP Settings Menu.Press CANCEL to cancel the entry.Press SET to save the entry for the TFTP Path.	

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<u>ک</u>	Aastra IP Phone UI	
Step	Action	
5	Press <b>DONE</b> to save the entry for the TFTP Path to the phone's configuration.	
Config	guring Alternate TFTP Path	
1	Press Options->Administrator Menu.	
2	Enter your Administrator password and press Enter.	
3	Select Configuration Server->TFTP Settings->Alternate TFTP Path.	
4	Enter the enter the path name for which the configuration files reside on the alternate TFTP server for downloading to the IP Phone. To enter the "\" character, press the "#" key several times to cycle through the characters until you see the "\" character  Note: Enter the path name in the form <i>folderX\folderX\folderX</i> . For example,	
	Alternate TFTP Path         Alternate TFTP Path         iphone\S71\configfiles         - Backspace Nextspace -         Cancel -         - ABC         Done -         55i/57i/57i CT         55i/57i/57i CT         55i/57i/57i CT	
	<ul> <li>For 55i, 57i, and 57i CT:</li> <li>Press BACKSPACE to delete characters.</li> <li>Press ABC to toggle between upper and lower case letters.</li> <li>Press NEXTSPACE to add a blank space.</li> <li>Press CANCEL to cancel the entry for the TFTP path.</li> <li>For 51i, and 53i:</li> <li>Press ENTER to display the Alternate TFTP Path screen.</li> <li>Press NEXT to move to the next option in the TFTP Settings Menu.</li> <li>Press CANCEL to cancel the entry.</li> <li>Press SET to save the entry for the Alternate TFTP Path.</li> </ul>	

Æ7	Aastra IP Phone UI
Step	Action
5	Press <b>DONE</b> to save the entry for the Alternate TFTP Path to the phone's configuration.
Config	guring FTP Path
1	Press Options->Administrator Menu.
2	Enter your Administrator password and press Enter.
3	Select Configuration Server->FTP Settings->FTP Path.
4	Enter the enter the path name for which the configuration files reside on the FTP server for downloading to the IP Phone. For example, <b>configlftp.</b> To enter the "\" character, press the "#" key several times to cycle through the characters until you see the "\" character <b>Note:</b> Enter the path name in the form <i>folderX\folderX\folderX\folderX</i> . For example, <i>ipphone\57i\configfiles</i> . You can enter up to 64 alphanumeric characters. <b>FTP</b> Path <b>FTP</b> Path <b>F</b>
5	Press <b>DONE</b> to save the entry for the FTP Path to the phone's configuration.

# **NAT Traversal Features**

#### **Configurable SIP and TLS Source Ports**

A System Administrator can now configure the SIP and TLS source ports on the IP Phone. Previously, the IP phone used default values (**5060** for UDP/TCP and **5061** for TLS). The two new parameters for configuring the SIP and TLS source ports are:

- sip local port
- sip local tls port

You can configure the SIP and TLS source ports using the configuration files or the Aastra Web UI. After configuring these parameters, you must reboot the phone.

If NAT is disabled, the port number also shows in the VIA and Contact SIP headers.

If you enable NAT, the phone uses the NAT port number (and NAT IP address) in the Via and Contact SIP headers of SIP messages, but still use the configured source port.

**Note:** By default, the IP phones use symmetric UDP signaling for outgoing UDP SIP messages. When symmetric UDP is enabled, the IP phone generates and listens for UDP messages using port 5060.If symmetric UDP signaling is disabled, the phone sends from random ports but it listens on the configured SIP local port.

Configuration Files astra of a charge		
comgutation rites adstrately, smack tog		
Description         Specifies the local source port (UDP/TCP) from which the t sends SIP messages	the phone	
Format Numeric		
Default Value 5060		
RangeGreater than 1024 and less than 65535Notes:1. It is recommended that you avoid the conflict RTP port ra of a UDP transport.2. By default, the IP phones use symmetric UDP signaling UDP SIP messages. When symmetric UDP is enabled, the generates and listens for UDP messages using port 5060.I UDP signaling is disabled, the phone sends from random p	<ul> <li>Greater than 1024 and less than 65535</li> <li>Notes:</li> <li>1. It is recommended that you avoid the conflict RTP port range in case of a UDP transport.</li> <li>2. By default, the IP phones use symmetric UDP signaling for outgoing UDP SIP messages. When symmetric UDP is enabled, the IP phone generates and listens for UDP messages using port 5060.If symmetric UDP signaling is disabled, the phone sends from random parts but it</li> </ul>	
Example sin local port: 5060		

# Configuring SIP and TLS Source Ports Using the Configuration Files

Parameter – sip local tls port	Aastra Web UI: Configuration Files	Advanced Settings->Global SIP-> Advanced SIP Settings aastra.cfg, <mac>.cfg</mac>
Description	Specifies the local sou SIP messages.	rce port (SIPS/TLS) from which the phone sends
Format	Numeric	
Default Value	5061	
Range	Greater than 1024 and less than 65535 <b>Note:</b> It is recommended that you avoid the conflict with any TCP ports being used. For example: WebUI HTTP server on 80/tcp and HTTPS on 443/tcp.	
Example	sip local tls port: 5061	

## Configuring SIP and TLS Source Ports Using the Aastra Web UI

Use the following procedure to configure SIP and TLS source ports using the Aastra Web UI.



$\odot$	Aastra Web UI
3	The "Local SIP TLS Port" field has a default value of <b>5061</b> . Change this value if required to a value greater than 1024 and less than 65535. Note: It is recommended that you avoid the conflict with any TCP ports being used. For example:
	vvebul HTTP server on 80/tcp and HTTPS on 443/tcp.
4	Click Save Settings to save your changes.

## **RPORT Support**

The Session Initiation Protocol (SIP) operates over UDP and TCP. When used with UDP, responses to requests are returned to the source address from which the request came, and returned to the port written into the topmost "Via" header of the request. However, this behavior is not desirable when the client is behind a Network Address Translation (NAT) or firewall.

A new parameter created for the "Via" header called "**Rport**" in RFC 3581, allows a client to request that the server send the response back to the source IP address **and** the port from which the request came.

When you enable "Rport, the phone always uses symmetric signaling (listens on the port used for sending requests).

An Administrator can configure "**Rport**" using the configuration files or the Aastra Web UI.

## Configuring Rport Using the Configuration Files

Use the following parameter to configure Rport on your phone.

- Aastra Web UI: Advanced Settings->Network-> Parameter -Advanced Network Settings sip rport Configuration Files aastra.cfg, <mac>.cfg Description Allows you to enable (1) or disable (0) the use of Rport on the IP phone. "Rport" in RFC 3581, allows a client to request that the server send the response back to the source IP address and the port from which the request came. Format Boolean **Default Value** 0 0 (disable) Range 1 (enable) Example sip rport: 1
- sip rport

# Configuring Rport Using the Aastra Web UI

Use the following procedure to configure Rport on your phone using the Aastra Web UI.

$\mathbf{S}$	Aastra Web UI			
1	Click on Advanced S	ettings->Network->Advanced	Network Settings.	
	Status         System Information         Operation         User Password         Phone Lock         Softkeys and XML         Directory         Reset         Basic Settings         Preferences         Account Configuration         Advanced Settings         Network         Global SIP         Line 1         Line 2         Line 3         Line 4         Line 5         Line 6         Line 7         Line 8         Line 9         Action URI         Configuration Server         Firmware Update         TLS Support         802.1x Support         Troubleshooting	Network Settings Advanced Network Settings UPnP NAT IP NAT SIP Port NAT RTP Port Nortel NAT Traversal Enabled Nortel NAT Traversal Enabled Nortel NAT Timer (seconds) STUN Server STUN Server STUN Port TURN Server TURN Server TURN Vser ID TURN Vser ID TURN Port TURN Port TURN Port TURN Port TURN Port TURN Server 1 Time Server 2 Time Server 3 HTTPS Client Method HTTPS Server - Redirect HTTP to HTTPS	Enabled 0 0 0 0 Enabled 30 0.0.0 3478 0.0.0 3478 0.0.0 3479 Enabled Enabled 10.10.10.6 5000 0.0.0 SSL 30 Enabled	Rport Parameter
		HTTPS Server - Block XML HTTP POSTS	Enabled	rarameter
2	<ul> <li>In the "Advanced Network Settings" section, enable the "Rport (RFC3581" field by checking the check box. (Disable Rport by unchecking the box).</li> <li>"Rport" in RFC 3581, allows a client to request that the server send the response back to the source IP address and the port from which the request came.</li> </ul>			
3	Click Save Settings	to save your changes.		

# **BroadSoft Interoperability Features**

## **CMS Support**

The IP phones now support HTTP/HTTPS digest authentication as defined in RFC 2617. (The HTTP client supports digest authentication; the HTTP server does not; the HTTP server supports basic authentication). This feature allows the phones to interoperate with Broadsoft's CMS phone configuration tool.

Using the configuration files, you can enable/disable the following parameter to display a LOG IN softkey which allows the HTTP/HTTPS server to perform digest authentication:

http digest force login - specifies whether or not to display the LOG IN softkey on the IP Phone UI screen. Valid values are 0 (disabled) or 1 (enabled). Default is 0 (disabled).

If the "**http digest force login**" parameter is set to **1** (enabled), after the phone boots, the LOG IN softkey displays on the phone's LCD. If the user presses this softkey, a username/password screen displays, allowing the user to enter the configured username and password that is sent to the HTTP/HTTPS server for digest authentication by the server. By default, username is "**aastra**" and password is "**aastra**". You can enter the username and password in two ways:

- Using the configuration files, you can change the default values for the following parameters:
  - http digest username specifies the username to use for HTTP/HTTPS digest authentication.
  - http digest password specifies the password to use for HTTP/HTTPS digest authentication.
- By enabling the "**http digest force login**" parameter (setting to 1) the phone displays the LOG IN key so the user can enter the default username/password via the IP Phone UI.

# Configuring HTTP/HTTPS Digest Authentication Using the Configuration Files

Use the following parameters to configure HTTP/HTTPS Digest Authentication on the phone.

<b>Parameter</b> – http digest username	Configuration Files aastra.cfg, <mac>.cfg</mac>
Description	<ul> <li>Specifies the username to use for HTTP/HTTPS digest authentication The server uses this username for authentication purposes when loading configuration to the phone over HTTP/HTTPS. This parameter initiates a "Username/Password" screen after pressing the Log In softkey.</li> <li>Notes: <ol> <li>The Username field accepts special characters, such as, @, #, %, =, _, etc. You can also specify domain names (i.e., user@domain).</li> <li>You must reboot the phone after setting the HTTP/HTTPS digest authentication parameters.</li> </ol> </li> </ul>
Format	String
Default Value	N/A
Range	Up to 40 alphanumeric characters
Example	http digest username: mysuername

Parameter – http digest password	Configuration Files aastra.cfg, <mac>.cfg</mac>
Description	<ul> <li>Specifies the password to use for HTTP/HTTPS digest authentication The server uses this password for authentication purposes when loading configuration to the phone over HTTP/HTTPS. This parameter initiates a "Username/Password" screen after pressing the Log In softkey.</li> <li>Notes: <ol> <li>The Password field accepts special characters, such as, @, #, %, =, _, etc.</li> <li>You must reboot the phone after setting the HTTP/HTTPS digest authentication parameters.</li> </ol> </li> </ul>
Format	String
Default Value	N/A
Range	Up to 20 alphanumeric characters
Example	http digest password: mypassword

Parameter – http digest force login	Configuration Files aastra.cfg, <mac>.cfg</mac>
Description	Enables and disables the display of a LOGIN key on the phone's idle screen. <b>Note:</b> After the server has authenticated the phone, this parameter must be set to " <b>0</b> " in order for the server to send the default profile to the phone.
Format	Boolean
Default Value	0 (disable)
Range	0 (disable) 1 (enable)
Example	http digest force login: 1

#### How it Works with the BroadSoft CMS Tool

If you enable the HTTP/HTTPS digest authentication feature, the phone behaves as follows with the BroadSoft CMS tool:

- 1. Factory default the phone.
- **2.** Configure the HTTP or HTTPS server (specify the HTTP or HTTPS server, path, and port).
- 3. Restart the phone.

The first time the phone reboots, the phone is challenged by the server. The phone sends the default username of "**aastra**" and the default password of "**aastra**" to the server.

The server sends the default profile to the phone. This profile includes the information "**http digest force login: 1**".When the phone receives the profile, it displays the "**Log In**" key on the IP Phone UI's idle screen.

4. Press the "Log In" key to displays the username/password screen.

**Note:** On the 55i, 57i, and 57i CT, you use the **Log In** softkey to log in. On the 51i, and 53i, you press the **right arrow** key to log in.

#### 51i and 53i Login Screens



#### 55i, 57i, and 57i CT Login Screens



5. Enter a username in the "Username" field (up to 40 characters) and a password in the "Password" field (up to 20 characters).



**Note:** The "Username" and "**Password**" fields accept special characters, such as, @, #, %, =, \_, etc. You can also specify domain names in the Username field (i.e., user@domain).

6. After entering the username and password, press **Submit**. The phone attempts to authenticate with the server. If successful, the phone reboots and loads the user configuration. If unsuccessful, the phone displays "*Authentication Failed*".

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# Server-Side Do Not Disturb (DND), Call Forward (CFWD) , and Automatic Call Distribution (ACD) Support

The IP phones now support server-side DND, CFWD, and ACD feature events. This feature is called "as-feature-event" and works with the DND, CFWD, and ACD keys.



This feature is configurable using the configuration files or the Aastra Web UI.

#### How it Works on the Phone UI

When you enable the "as-feature-event" on the phone, AND you activate a DND, CFWD, and/or ACD key, pressing the key performs as follows:

- If the key is configured for an account on the phone, the server applies DND, CFWD or ACD to that account. (for information about CFWD and DND account configuration, see the section, "Account-Based Do Not Disturb (DND) and Call Forward (CFWD)" on page 6).
- If the key is "custom" configured, a screen displays on the phone allowing the user to choose the account to apply DND or CFWD. (for information about CFWD and DND custom configuration, see the section, "Account-Based Do Not Disturb (DND) and Call Forward (CFWD)" on page 6).
- A solid "Message Waiting Indicator" (MWI) indicates if one line/account has DND or CFWD enabled, and the LED next to the DND/CFWD key is ON. A status displays on the LCD that indicates the status of the line in focus (for example, the status of CFWD could be "Call Forward Busy" (CFWDB) or "Call Forward No Answer" (CFWDNA).

→

**Note:** If the ACD key is configured on the phone, and the "as-feature-event" is not enabled, the phones uses the ACD icons and LED behavior from a Sylantro server instead.

When you press the DND, CFWD, or ACD key, only one attempt is made to enable/disable the "as-feature-event" feature on the server. The message "*Trying*" displays on the phone's LCD after pressing the key. If the attempt is successful, the idle screen displays. If the attempt is unsuccessful, the message "*Failed*" displays. The user can press the softkey again to re-attempt the feature if required.

The following screen displays on the IP Phone UI for server-side call forwarding:



For server-side ACD, when you press the ACD softkey, the screen that displays is dependent on the state of the ACD subscription. Possible state for ACD are::

- Logged Out User has the option of logging in.
- Logged In User has the option of logging out or making the phone unavailable.
- Unavailable User has the option of logging out or making the phone available.

#### ACD Screen for 53i



#### ACD Screen for 55i, 57i, and 57i CT



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#### **Note: IMPORTANT!**

If DND and CFWD are configured to use "**Account**" mode on the IP Phone, pressing the DND and CFWD keys apply to the account in focus as described in the section, "Account-Based Do Not Disturb (DND) and Call Forward (CFWD)".

If ACD is configured on the phone, the ACD softkey applies to the line for which the key is configured. The ACD softkey must be configured for the first line of an account. For example, if account 2 has line 3 and line 4 you must configure the ACD softkey for line 3.

# Configuring Server-Side DND, CFWD, and ACD Using the Configuration Files

If the phone-side features of the DND, CFWD, and ACD keys are enabled, the phone uses the existing parameter values for these keys. If the server-side features are enabled, the phone saves the state of the features from the server on the phone.

Use the following parameters to enable/disable the server-side "as-feature-event" on the IP Phone:

• sip lineN as-feature-event subscription

<b>Parameter</b> – sip lineN as-feature-event subscription	Aastra Web UI: Configuration Files	Advanced Settings->LineN-> Advanced SIP Settings aastra.cfg, <mac>.cfg</mac>
Description	Enables or disables the specified line with the BroadSoft's server-side DND, CFWD, or ACD features.	
Format	Boolean	
Default Value	0 (disable)	
Range	0 (disable) 1 (enable)	
Example	sip line1 as-feature-event subscription: 1	

#### • sip as-feature-event subscription period

Parameter – sip as-feature-event subscription period	Aastra Web UI: Configuration Files	Basic Settings->Global SIP-> Advanced SIP Settings aastra.cfg, <mac>.cfg</mac>
Description	Specifies the amount of time, in seconds, between resubscribing. If the phone does not resubscribe in the time specified for this parameter, it loses subscription.	
Format	Integer	
Default Value	3600	
Range	5 to 2147483648	
Example	sip as-feature-event subscription period: 600	

# Configuring Server-Side DND, CFWD, and ACD Using the Aastra Web UI

Use the following procedure to enable/disable the server-side "as-feature-event" on the IP Phone using the Aastra Web UI.



4	Aastra Web U Click on Advanced Status System Information Operation User Password Phone Lock Softkeys and XML Directory Reset Basic Settings Preferences Account Configuration Advanced Settings Network Global SIP Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 6 Line 7 Line 8 Line 8 Line 8 Line 8 Line 9 Action URI Configuration Server Firmware Update TLS Support 802.1x Support	Settings->Global SIP->Advance Global SIP Settings Explicit MVI Subscription Explicit MVI Subscription Period Missed Call Summary Subscription Missed Call Summary Subscription Period AS-Feature-Event Subscription Period Send MAC Address in REGISTER Message Sestion Timer T1 Timer T2 Timer Transaction Timer Transaction Timer Transport Protocol Local SIP UDP/TCP Port Local SIP TLS Port Registration Failed Retry Timer Registration Failed Retry Timer Registration Renewal Timer BLF Subscription Period Blacklist Duration Whitelist Proxy XML SIP Notify	ed SIP Settings.	As-Feature-Event Subscription Period
5	In the "Advanced S the amount of time, NOTIFY response Default is 3600. Va	IP Settings" section, in the " <b>As-Fe</b> in seconds, that the phone waits from the server side. lid values are	ature-Event Subscri after sending a SUBS	<b>ption Period</b> " field, enter CRIBE, to recieve a
6	Click Save Settir	to save your changes.		

# Issues Resolved on Series 5i Phones in Release 2.2

This section describes the issues resolved on the Series 5i IP phones in Release 2.2. The following table provides the issue number and a brief description of each fix.

**Note:** Unless specifically indicated, these resolved issues apply to all phone models.

Issue Number	Description of Fix	
User Interface		
DEF07409	Phones no longer display "Unknown Name" when making outbound calls.	
DEF07815	You can no longer edit a locked speed dial key from the IP Phone UI.	
DEF07876	Speeddial page in the Aastra Web UI now returns a confirmation page after clicking the "SAVE SETTINGS" button.	
DEF07901	When adding a directory entry from the IP Phone UI, the phone now prompts the user to enter a phone number if they try to exit this field before entering a number	
DEF08025	51i/53i: Phone no longer truncates the time and date on the display when the time format is set to 1 and date format is set to 3.	
DEF08224	You can now set the date via the IP Phone UI when using a non-Aastra supported language pack.	
DEF08595	51i: The lock icon now displays during SRTP calls. <b>Note:</b> The SRTP implementation in the previous release is not fully compatible with the new SRTP in release 2.2. There is a change in the upgraded libsrtp library on the phone which causes interoperability problems for certain codecs between old releases and the new 2.2. release. It is highly recommended that if you are using SRTP, all phones are upgraded to release 2.2.	
DEF08621	A re-INVITE now updates the Caller ID.	
DEF08645	When the DND key is configured on an expansion module, the DND status is now preserved via a reboot of the phone.	
DEF08829	57iCT: The MWI icon on the cordless handset now functions correctly.	

Issue Number	Description of Fix
DEF08852	Auto-answer calls are no longer rejected when you are already in a call; they are now treated as normal calls. The previous behavior affected Fonality HUD users.
SIP	
DEF07873	Display name portion of the FROM and TO SIP headers are now correctly quoted, allowing support for characters such as (, ), [, ]
DEF08132	Phones now support updating the RTP destination when the call is taken off hold – this was causing lost voice path on some servers after transfer.
DEF08245	Phones now send an ACK and the call is cleared down correctly when the far-end answers the call at the same time that a CANCEL is sent.
DEF08494	Phones initiating the transfer now clear down the transferred call, rather than relying on the transferee. This fixes issues with other clients that didn't clear down the call when they were the transferee.
DEF08558	RFC2833 - DTMF support is no longer advertised when the phone is configured to only use in-band RTP.
DEF08612	Phones now support updating the Codec when the call is taken off hold– this was causing lost voice path after a call was put on hold.
DEF08619	Phones now re-subscribe for SCA and MWI events after receiving a 481 error, which can happen after a server reboot.
DEF08632	Phones now clear down a held call on receipt of a 481 in response to an unhold attempt or a transfer attempt.
DEF08641	Phones no longer send SDP in the ACK message for calls involving early media.
DEF08649	Phones now support OPTIONS packets within a dialog.
DEF08664	Phones now support Persistent TLS connections using DNS SRV records.
DEF08672	Phones now work correctly behind an ADTRAN TA924E.
DEF08678	Phones now respond to authentication challenges when running behind an Edgemarc.
DEF08835	Phones now handle sequence rollovers in SRTP calls correctly.
DEF08836	Phones now include SRTP encryption information in re-INVITE requests.
DEF08846	Phones no longer send a re-INVITE if the user does not enter any more digits after receiving a "484 Address Incomplete" response.
XML	
DEF07986	Phones now correctly parse XML objects that have a 'space' at the end of a URI.
ENH08004	List objects now support up to 30 items.
DEF09150	FastReboot now works correctly when no language packs installed.

Issue Number	Description of Fix	
Robustness		
DEF07948	Phones now work properly when they fail to renew a registration, either because of network issues or because of SIP message floods.	
DEF08186	Phones now corrently clear down the call when making a call to a paging group and when the phones monitor all the group members via BLF.	
DEF08330	Phones no longer have a resource leak when they are flooded by SIP retransmissions. This issue lead to the phone not being able to make or receive calls. It also prevented the transfer of existing calls.	
DEF08555	Phones no longer have a memory leak when processing Syantro BLA messages	
DEF08574	Phones no longer have a memory leak when parsing XML Image Screen and Image Menu Screen objects.	
DEF08596	Sipera VIPER 2007-0037 security advisory has been resolved.	
DEF08597	Sipera VIPER 2007-0038 security advisory has been resolved.	
DEF08655	Phones no longer have a small memory leak when using XML Input Screen objects.	
DEF08746	Phones now work properly when connecting to a 3CX server and a transfer is attempted.	
DEF08851	Phones now work properly after processing a 484 Address Incomplete message.	
Other		
DEF08634	Auto-sync time setting format is now independent of the phones language setting.	

# **Contacting Aastra Telecom Support**

If you've read this release note, and consulted the Troubleshooting section of your phone model's manual and still have problems, please send inquiries via email to support@aastra.com.

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## Generic SIP IP Phone Model 5i Series

2.2 Release Notes

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