





Atcom AT620P with Elastix Server

Setup Guide



1.0 Setup Diagram

Figure 1-1 is a setup diagram for a single IP Phone AT620P configuration. The phone is setup as a SIP telephony device.



Figure 1-1. Setup Diagram

2.0 Host PC Environment

Table 2-1.	Host Server	Environment	Details
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	Description
Hardware Type	Elastix Appliance ELX-Series
Hardware Version	ELX-3000
Software Type	Elastix
Software Version	2.3

3.0 Test Setup Equipment

Table 3-1	. Test Setup	Equipment
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Equipment	Model	Version
IP (SIP) Phone	N/A	N/A
Atcom	AT620P	1.7.370.151
Switch	N/A	N/A

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4.0 Setup Procedure

To set up the Elastix Server for the Atcom AT620P,

1. Go to the web address of the Elastix Server Login page. The web address is determined by the customer, for this guide we have used the IP address 192.168.1.65 2. On the Login page, type the username and password for an administrative user into the Username and Password fields, see Figure 4-1. The username and password are determined by the customer.



Press Enter or click on the Submit button to go to Elastix's Dashboard
 Once inside, click on the PBX tab on the menu at the top of the screen

Figure 4-2. Dashboard

Əelastix 🗧						61912	141
Dashboard Network	System Agenda Users Sh	Email Fax. Iutdown Hardware Detec	tor Updates	Backup	Reports		
Dashboard 🕨	🕚 Dashboard					ि मा 🖌	r ?
Dashboard Applet Admin	System Resources		3	Proces	ses Status		S
History					Telephony Service	RUNNING	-
Dashboard				9	Instant Messaging Service	NOT RUNNING	-
anguage	1.4%	13.1%	0.0%		Fax Service	RUNNING	-
Themes	CPU	RAM	SWAP		Email Service	RUNNING	-
PBX Configuration	CPII Info:	Intel(P) Atom(TM) (PI	LD525 @ 1.900Uz		Database Service	RUNNING	-
Hardware Detector	Uptime:	18 days, 19 hour(s), 2	3 minute(s)		Web Server	RUNNING	-
	CPU Speed: Memory usage:	1,800.21 MHz RAM: 2,009.84 Mb SW	AP: 4,094.68 Mb	3	Elastix Call Center Service	NOT INSTALLED	
	Hard Drives		S	Perform	nance Graphic		S
		O% Used 100% Avai Hard Disk Capacity: 447. Mount Point: / Manufacturer: ST9500423	lable 11GB AAS	4.) 3.) 2.) 1.)	Simultaneous calls, memory	and CPU	
	Logs: 93M	Local Backup	s: 102M	0.0		0.990] 150	
	Emails: 8.0K	Configuration	: 76M		8 8 8 8 8 6 8 8	8 1	
ps://172.25.2.0/index.php?menu=pbxconfi	Voicemails: 104K	Recordings: 8	.0K		 CPU usage (%) Men. usage (MB) 		

5. Click on the Submit button to add an extension, see Figure 4-3. This will take you to the Add SIP Extension page.

Figure 4-3. Add an Extension

Aelastix										1911L
PREEDOM TO COMUNICATE	System	Agenda	Email	Fax	PBX	IM	Reports	~		
PBX Configuration Operator Pane	I Voice	email	Monitoring	Endpoint Configurator	Conference	Batch of Ext	ensions	Tools	Flash Operator Panel	VoIP Provider
PBX Configuration										?
Basic										
Extensions	Add a	n Extensi	ion							Add Extension
Feature Codes										
General Settings	Please se	elect your Devi	ce below then cl	ick Submit						
Outbound Routes										
Trunks	Device									
Inbound Call Control										
Inbound Routes	Device	Generic SIP	Device 🔻							
Zap Channel DIDs										
Announcements	Submit									
Blacklist	×.									
CallerID Lookup Sources										
Day/Night Control										

- 6. On the Add SIP Extension page (Figure 4-4), fill in the following information:
 - User Extension (301 in this example)
 - **Display Name** ('AtcomAT620' in this example)
 - secret ('h7Dka3Rf9si0t' in this example)

Figure 4-4. Add SIP Extension

PBX Configuration		
Basic		
Extensions	Add SIP Exter	nsion
Feature Codes		
General Settings		
Outbound Routes	Add Extension	
Trunks		
Inbound Call Control	Liser Extension	301
Inbound Routes	USCI Extension	
Zap Channel DIDs	Display Name	AtcomAT620P
Announcements	CID Num Alias	
Blacklist	SIP Alias	
CallerID Lookup Sources		
Day/Night Control	Extension Options	
Follow Me	-	
IVR	Outbound CID	
Queue Priorities	Die e Tiere	Default +
Queues	Ring Time	
Ring Groups	Call Waiting	Disable 1
Time Conditions	Call Screening	Disable
Time Groups	Pinless Dialing	Disable -
Internal Options & Configuration	Emergency CID	
Conferences	Emergency CID	
Languages		
Misc Applications	Assigned DID/CID	
Misc Destinations		
Music on Hold	DID Description	
PIN Sets	Add Inbound DID	
Paging and Intercom	Add Inhound CID	
Parking Lot	Add Inbound CID	
System Recordings	Device Options	
VoiceMail Blasting		
Remote Access	This device uses sip t	technology.
Callback	conrot	570/=200-00
DISA	secret	IT / DKaSKI SIUT
Option	dtmfmode	rfc2833

7. Click on the 'Submit' button at the end of the page. The extension will be created and you will see the page on Figure 4-5 displaying the "Apply Configuration Changes Here" pink ribbon on top of the screen.

8. Click in the "Apply Configuration Changes Here" link

- 4 -



Figure 4-5. Apply Configuration Changes Here

elastix*	System Agenda Email Fax PBX IM Reports	6911412
PBX Configuration Operator Pan	el Voicemail Monitoring Endpoint Configurator Conference Batch of Extensions	Tools 🛛 Flash Operator Panel 🛛 VoIP Pro🗲 🗼
PBX Configuration		⊠⊪★?
	Apply Configuration Changes Here	
Basic Extensions Feature Codes	Add an Extension	Add Extension AtcomAT620P <301>
General Settings	Please select your Device below then click Submit	
Outbound Routes		
Trunks	Device	
Inbound Call Control		
Inbound Routes	Device Generic SIP Device	
Zap Channel DIDs		
Announcements	Submit	
Dis shill at		

9. With this you have just finished creating a SIP extension that will be used by the Atcom AT620P to register with the Elastix Server. Repeat Steps 5 through 8 to similarly create another extension (different values on Step 6) to be used by the IP (SIP) Phone to register as well (extension 302 in this example). Once finished you will see something similar to Figure 4-6

Figure 4-6. Atcom and IP Phone extensions successfully created

	System Agenda Email Fax PBX IM Reports 🗸	691#1
PBX Configuration Operator Panel	Voicemail Monitoring Endpoint Configurator Conference Batch of Extensions Tools Flash Op	perator Panel 🔋 VoIP Pro💽 🕨
PBX Configuration		⊠ ⊪ ★ ?
Basic		
Extensions	Add an Extension	Add Extension
Feature Codes		AtcomAT620P <301>
General Settings	Please select your Device below then click Submit	IPPhone <302>
Outbound Routes	Device	
Trunks	Dade	
Inbound Call Control		
Inbound Routes	Device Generic SIP Device	
Zap Channel DIDs		
Announcements	Submit	
Feature Codes General Settings Outbound Routes Trunks Inbound Call Control Inbound Routes Zap Channel DIDs Announcements	Please select your Device below then click Submit Device Device Generic SIP Device Submit	IPPhone <302>

10. You will need to enter the information from the extension created on the Elastix Server into the Atcom Phone.

For the initial configuration, refer to the Atcom AT620P User Manual which can be found at: <u>http://www.atcom.cn/AT620P.html</u>

Factory default setting	S
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IP Addressing	DHCP
Web Access User Name	admin
Web Access Password	admin

11. Log in to the Atcom AT620P WebUI by pointing your browser to the Atcom Phone's IP address.

12. When prompted, enter the Web Access Username and Web Access Password to access the Atcom WebUI (Figure 4-7).

Figure 4-7. Atcom AT620P WebUI

Username:	admin	
Pacquord		

To register the Atcom Phone we have two methods: **Manual Configuration** and **AutoProvisioning using Elastix's Endpoint Configurator.**

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MANUAL CONFIGURATION

1. Use the information from the Add SIP Extension page (Figure 4-4) to enter the following necessary information on "VOIP => SIP 1" section of the Atcom Phone WebUI:

- Server Address: Elastix Server's IP Address (192.168.1.65 in this example)
- Account Name: 301 in this example
- **Password:** 'h7Dka3Rf9si0t' in this example
- **Phone number:** 301 in this example
- Enable Register: Checked
- **Display Name:** "AtcomUser" in this example

	IP Phone							
АТСОМ	Current Status Network VOIP Ad	lvanced Dial-peer	r <u>Config Manage</u> <u>Update</u> §	System Manage				
• <u>SIP 1</u> • <u>SIP 2</u> • <u>IAX 2</u>					SIP1 Configuation			
		Basic Setting						
		Register status	Unapplied	Proxy Server Address				
		Server Name		Proxy Server Port				
		Server Address	192.168.1.65	Proxy Username				
		Server Port	5060	Proxy Password				
		Account Name	301	Domain Realm				
		Password		Enable Register				
		Phone Number	301	Display Name	AtcomUser			
			Al	PPLY				

Figure 4-8. Account Configuration

2. Once you have entered the required information, click on 'Apply' button located at the end of the page. To check if the phone is registered, refresh the current page and see the "Register Status" label. If the phone is not register make sure you have entered the right information (Figure 4.9).



Basic Setting				
Register status	Registered	Proxy Server Address		
Server Name		Proxy Server Port		
Server Address	192.168.1.65	Proxy Username		
Server Port	5060	Proxy Password		
Account Name	301	Domain Realm	[
Password	•••••	Enable Register		
Phone Number	301	Display Name	AtcomUser	

3. Configure the other IP (SIP) Phone with the correct parameters.

- 7 -



4. To test the Atcom AT620P, pick up the previously configured IP (SIP) Phone and call the AT620P's extension number (301 in this example). When the call is established, speak into the phone and verify that the other IP (SIP) Phone can hear your voice. Check this by calling from both ends. This step completes the manual procedure.

AUTOPROVISIONING USING ELASTIX'S ENDPOINT CONFIGURATOR

1. In the Elastix WebUI go to "PBX => Endpoint Configurator" (Figure 4-10).

Figure 4.10 Endpoint Configurator

ę	elas	tix	System	Agenda	Email	Fax	РВХ	IM	Reports			6 9	i * 1
РВ	X Configuration	Operator Pane	el Voicei	mail Mc	onitoring Endp	oint Configurator	Conference	Batch of Ex	tensions	Tools	Flash Ope	erator Panel	VoIP Provider
	[Endpoint	: Configurato	r										* ?
)	WARNING: It can take se	veral minutes,	, because you	r ip address ha:	s some devices,	65536							Dismiss
	192.168.1.0/2	¢ C	Discover Endp	oints in this Net	twork						И	Page 0	of 0 🕨 🕅
	Set	Unset	MAC Addr	ess	IP Address	Vendor	Model	Extension	to assign		Current	Extension	
ł						No records matc	h the filter criteri	a					
					Elastix is licen:	sed under GPL by Pa	aloSanto Solutio	ns. 2006 - 201	2.				

2. Next to the "Discover Endpoints in this Network" button, type the address where the phone is located and click the button. This will generate a list with all the phones available in that network (Figure 4-11).

Figure 4.11 Endpoint Config

(2) elast	Syste	m Agen	da Email	Fax	РВХ	IM	Reports V		1 * 1
PBX Configuration	Operator Panel	Voicemail	Monitoring	Endpoint Configurator	Conference	Batch of Ext	ensions Tools	Flash Operator Panel	VoIP Provider
Endpoint (Configurator								* ?
WARNING: It can take seve	eral minutes, becau	se your ip addr	ess has some devi	ces, 65536					Dismiss
192.168.1.0/24	Discove	r Endpoints in I	this Network					N N Page 1	of 1 🕨 🕅
Set Unset	MAC Address	IP Address	Vendor			odel	Extension to a	ssign Curr	ent Extension
	00:09:45:58:C2:10	<u>192.168.1.139</u>	Atcom / Palmmicro	Communications	-	Unselected	Select a mo	del 📃 Not i	Registered
	00:15:65:23:47:83	192.168.1.179	Yealink / Xiamen Yea	alink Network Technolog	IY Co. 🔤	Unselected	Select a mo	del 📕 Not i	Registered
	00:09:45:58:29:A6	<u>192.168.1.195</u>	Atcom / Palmmicro	Communications	-	Unselected	Select a mo	del 📕 Not I	Registered
	00:08:5D:13:35:47	192.168.1.217	Aastra / Aastra		-	Unselected	- Select a mo	del 📕 Not I	Registered

- 3. In the row where the phone you want to autoprovision is located (find it according to either its MAC or IP Address):
 - Mark the checkbox
 - From the drop-down list, select the correct "Phone Type" (phone model) of the phone
 - From the drop-down list, select the "User Extension" you want to assign to the phone

Figure 4.12 Endpoint Configurator

		Syste	m Ageno	a Email Fax	РБХ	IM Repo	ts V	
PE	X Configuration	Operator Panel	Voicemail	Monitoring Endpoint Configuration	or Conference	Batch of Extensions	Tools Flash Operator	Panel VoIP Prov
	Endpoint (Configurator						Z⊪★?
)	WARNING: It can take seve	eral minutes, becau	se your ip addro	ess has some devices, 65536				Dismi
	192.168.1.0/24	Discove	r Endpoints in t	his Network			[≼ ∢ P	age 1 of 1 🕨
	Set Unset	MAC Address	IP Address	Vendor	Mod	lel	Extension to assign	
		00:09:45:58:C2:10	<u>192.168.1.139</u>	Atcom / Palmmicro Communications		Unselected 📩	Select a model 📩	Not Registered
		00:15:65:23:47:83	192.168.1.179	Yealink / Xiamen Yealink Network Technol	ogy Co.	Unselected 📩	Select a model 📩	Not Registered
		00:09:45:58:29:A6	192.168.1.195	Atcom / Palmmicro Communications	AT	620	SIP: AtcomAT620P <301>	Not Registered

- 4. Click the "Set" button. This will reboot the phone. After the phone has finished rebooting, it will be automatically configured with the selected User Extension.
- 5. Configure the other IP (SIP) Phone with the correct parameters.
- 6. To test the Atcom AT620P, pick up the previously configured IP (SIP) Phone and call the AT620P's extension number (301 in this example). When the call is established, speak into the phone and verify that the other IP (SIP) Phone can hear your voice. Check this by calling from both ends.