

R23X Door Phone User Manual

About This Manual

Thank you for choosing Akuvox's products. In user manual, we provides all functions and configurations you want to know about R23X. Please verify the packaging content and network status before setting. This manual applies to firmware 26.0.0.96 or lower version.

Note: The old firmware may be a little different from 26.0.0.96 about some configuration. Please consult your administrator for more information.

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1.Overview

1.1. Product Description



R23C

R23P

Akuvox's Audio Doorphone R23X is an open, non-proprietary and IP-based door station for two-way communication and remote entry control. It is a perfect complement to any SIP system and offers new possibilities of effectively control entry to your premises. It's applicable in villas, office and so on.

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Specific Absorption Rate (SAR) information

SAR tests are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new product is a available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC, tests for each phone are performed in positions and locations as required by the FCC. For headset, this part has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

For baseband, this equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

1.2. Feature

> Highlight

- Vandal resistant body, with a flush button
- POE(IEEE802.3af, Power-over-Ethernet)
- Two-way audio communication over IP network with Echo cancel feature
- Complied with SIP Standard for easy integration in each SIP PBXes

Physical&Power

- Body material: all-aluminum
- Button: 1 call button
- Output Relay: 2 output relays for door opener
- 802.3af Power-Over-Ethernet
- 12 DC connector(if not using POE)
- RF Card Reader:13.56MHz Supported (R23C only)
- Power consumption: less than 12w
- Water proof&Dust proof: IP65
- Installation: Wall-mounted
- Dimension: 190x110x35mm

> SIP Endpoint

- SIP v1(RFC2543), SIP v2(RFC3261)
- Audio codecs: G.711a, G.711µ, G.722, G.729
- Speech Quality: 7kHz Audio
- Echo Cancellation
- Voice Activation Detection
- Comfort Noise Generator
- Door opened via DTMF post-dial

> Network Features

- 1x10/100Mbps Ethernet Port
- Protocols support: IPv4, HTTP, HTTPS, FTP, SNMP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP, ARP

> Application Scenarios

- Office door phone with on-site or hosted IP-PBX
- Remote site entry over Internet
- Villa intercom with door access control

1.3. Panel Description



R23C

R23P

2. Configuration

2.1. Web login

2.1.1 Obtain the IP address

The Akuvox R23X uses Static IP by default, the default IP address is 192.168.1.100. If the IP address is unknown, press and hold the call button for a short period of time(about 5s) after LED light turns blue, the phone will announce its IP.

2.1.2 Login the web

Open a Web Browser, enter the corresponding IP address. Then, type the default user name and password as below to log in:

User name: admin

Password: admin

1	Login		Help Login Page
I	User Name Password	Remember Username/Password	
l			
ı			

2.2. Status

2.2.1 Basic

Status can be viewed from "Status -> Basic", including the information of product, network and account.

status	Status		Help
Basic	P	roduct Information	Note :
Intercom	Model MAC Address	R23C 4E:EF:D2:F3:01:8E	Max length of characters for input box:
Account	Firmware Version Hardware Version	26.0.0.96 26.0.0.0.0.0.0	255: Broadsoft Phonebook server address 127: Remote Phonebook URL &
Phone	Ne	etwork Information	AUTOP Manual Update Server URL 63: The rest of input boxes
Upgrade	LAN Port Type LAN Link Status	Static IP Connected	Warning :
Security	LAN IP Address LAN Subnet Mask	192.168.1.100 255.255.255.0	Field Description :
	LAN Gateway LAN DNS1 LAN DNS2	192.168.1.1 8.8.8.8	
	A	ccount Information	
	Account1	None@None Disabled	
	Account2	None@None Disabled	

Sections	Description
Product Information	To display the device's information such as Model name,
	MAC address (IP device's physical address), Firmware version
	and Hardware version.
Network Information	To display the device's Networking status(LAN Port), such as
	Port Type(which could be DHCP/Static/PPPoE), Link Status, IP
	Address, Subnet Mask, Gateway, Primary DNS server,
	Secondary DNS server, Primary NTP server and Secondary
	NTP server(NTP server is used to synchronize time from
	INTERNET automatically).
Account Information	To display device's Account information and Registration
	status (account's username, registered server's address,
	Register result).

2.3. Intercom

2.3.1 Basic

Go to the path: Intercom-Basic

	Intercom-Basic	Help
com	Basic	Noto :
ic	Select Account Auto 🔻	Max length of characters for input
Setting	No Answer Call Disabled V	box: 255: Broadsoft Phonebook server
v&Input		address 127: Remote Phonebook URL &
Catting	Push Button	AUTOP Manual Update Server URL
Security	Key Number	63: The rest of input boxes
icast	Push Button	Warning :
l Setting	No Answer Call1	Field Description :
unt	No Answer Call2	Submit Shortcut
vork	Web Call	Submit Cancel
e	Web Call(Ready)	al Out Hang Up
ade	Max Call Time	
rity	Max Call Time 5 (2~30Minutes)	
	Max Dial Time	
	Dial In Time 60 (30~120Sec)	
	Dial Out Time 60 (30~120Sec)	
	Push To Hang Up	
	Push To Hang Up Enabled 🔻	

Sections	Description
Basic	 Select Account: R23X supports 2 accounts. You can choose one account or Auto mode for the following Intercom basic settings
	 No Answer Call : R23X will call to the No answer call number in order when the ringtone is time out without answer of the push button number. Disable by default
Push Button	 Push Button: To configure the destination number or IP you want to contact with. No Answer Call 1&2: To setup two no answer call numbers or one no answer call number.
Web Call	To dial out or answer the phone from website.

Max Call Time	To configure the max call time	
Max Dial Time	• Dial in Time: When other phone calls to R23X, if ring	
	tone is over the Dial in Time without answer. The call will	
	be hang up.	
	• Dial out Time: When R23X calls to the other party, if the	
	ringtone is over the Dial out Time without answer. R23X	
	will continue calls to no answer call number in order.	
Push to Hang up	To enable or disable the Push to Hang up function	

2.3.2 LED Setting

To setup the LED lighting mode.

itus	ED Setting				Help
ercom	State	Color Off	Color On	Blink Mode	Note :
asic	NORMAL •	OFF •	Blue 🔻	Always On 🔻	Max length of characters for input
ED Setting	OFFLINE •	OFF •	Red 🔻	2500/2500 •	255: Broadsoft Phonebook server
elav&Toput	CALLING •	OFF •	Blue 🔻	2500/2500 •	address
a yampat	TALKING •	OFF T	Green 🔻	Always On 🔻	AUTOP Manual Update Server URL
C Setting	RECEIVING •	OFF •	Green 🔻	2500/2500 •	63: The rest of input boxes
ulticast		le au th			Warning :
ard Setting		omic	Ca	icer	Field Description :
ount					
					Submit Shortcut
work					
one					
jrade					
unty					

Sections	Description
State	Including five states:Normal,Offline,Calling,Talking and Receiving.
Color Off	The default status is OFF.
Color On	It can support three color: Red, Green, Blue.
Blink Mode	To setup the different blink frequency.

2.3.3 Relay&Input

us	Relay&Input	Help
rcom	Belay	
ic		Note : Max length of characters for input
n	Relay ID RelayA 🔻 RelayB	 box:
) Setting	Relay Type Default state Default state	255: Broadsoft Phonebook server
ay&Input	Relay Delay(sec) 3 V 3	▼ 127: Remote Phonebook URL &
C Setting	DTME Option 1 Digit DTME V	AUTOP Manual Update Server UR
boset		•
UCdSL	4 Digite DTME	Warning :
d Setting	4 Digits DTMP	Field Description :
ount	Relay Status RelayA: Low Relay8: Lo	N Submit Shortcut
work	WebRelay	Submit Cancel
ne	Type Default 🔻	
rade	IP Address	
	UserName	
inty	Password	
	Input	
	Input Service Disabled 🔹	
	Call Number	
	Display Name	
	Call Timer 60 (0~65535	Sec)
	Light Status InputA: Normal	
	Submit	Cancel

Sections	Description
Relay	To configure some settings about unlock
	 Relay Select: R23X supports 2 relays.
	• Relay Type: Different locks use different relay types,
	positive or negative. If you connect the Lock in NO
	connector, select positive type. Otherwise using negative
	type.
	• Relay Delay(sec): Allows the door to remain "open" for
	certain period . The range is from 1 to 5 seconds.
	• DTMF Option: R23X support 1digit or 4 digits DTMF
	unlock code. Please select one type and enter the
	corresponding code.
	• DTMF: Setup 1 digit DTMF code for remote unlock
	• 4 Digits DTMF : Setup 4 digits DTMF code for remote
	unlock.
	• Status: Different relay types will show different status.

Web relay	R23X can support extra web relay. This function is more
	safety to use DTMF code to remote unlock.
	• Type: Connect web relay and choose the type.
	• IP Address: Enter web relay IP address.
	• User name: it is an authentication for connecting web
	relay
	• password: it is an authentication for connecting web
	relay
	Note: Users can modify username and password in web relay
	website.
Input	There is a sensor that used for anti-vandal in R23X. When
	R23X is broken by violent means, the sensor will be triggered,
	then the management center will receive the alarm.
	• Service: Enable by default
	• Call Number: To setup management center number for
	alarm.
	• Display Name: Which is sent to the other call party for
	displaying.
	• Call Timer: The interval of calling. For instant , the Call
	timer is 5sec, if you hang up the calling in the third
	second, the calling will auto call out after 2sec.
	• Light Status: The status will change according to the
	sensor. Once the sensor is triggered , the status will
	show Warning. Normal by default.

2.3.4 AEC Setting

tatus			
	AEC Setting		Help
ercom	AEC Level 700		Note '
asic			Max length of characters for input
ED Setting	Submit	Cancel	box: 255: Broadsoft Phonebook server
			address
elay&Input			127: Remote Phonebook URL & AUTOP Manual Undate Server URI
EC Setting			63: The rest of input boxes
lulticast			Warning :
ard Setting			
			Field Description :
ount			Submit Shortcut
work			Submit Cancel
ne			
rade			
urity			

Sections	Description
AEC Level	AEC(Configurable Acoustic and Line Echo Cancelers) is used
	to adjust the echo effect during the communication. The
	default value is 700. Increase the level, the echo control is
	better.

2.3.5 Multicast

itus	Multicast	Help
ercom	Multicast Audio Receiving	Note ·
asic	Multicast Receiver Enabled	Max length of characters for input
ED Setting	Receive Address	255: Broadsoft Phonebook server
elay&Input	Receive Port	address 127: Remote Phonebook URL &
EC Setting	Multicast Audio Sending	AUTOP Manual Update Server URL 63: The rest of input boxes
ulticast	Multicast Sending Enabled	Warning :
ard Setting	Send to Address	Field Description :
count	Send to Port	Submit Shortcut
twork		Submit Cancel
one	Submit	
grade		

Sections	Description			
Multicast Audio Receiving	To display and configure the Multicast setting.			
	• Multicast Receiver Enable: Enable receiver multicast			
	function.			
	 Receiver address : Setup the multicast address. 			
	 Receiver port : setup the multicast address port. 			
Multicast Audio Sending	To setup the multicast parameters.			
	• Multicast Sending Enable: Enable sender multicast			
	function			
	 Send to Address: setup the multicast address. 			
	• Send to port: setup the multicast address port.			

2.3.6 Card Setting(R23C only)

	Card Setting				Help
n	Import/Export Card Data(.xml)			Note :	
ting	选择文件 未选择任何文件 Import Export			Max length of characters for input box: 255: Broadsoft Phonebook server address	
1					AUTOP Manual Update Server UR
	Card Status	Normai	Арріу		63: The rest of input boxes
		C	ard Setting		Warning :
ing	IC Key DoorNum	1 •			Field Description :
	IC Key Name				Cubmit Chartout
				Submit Cancel	
		L			
		Door Card Management			
		Name	Code	Door	
	Index				
	1				
	1 2				
L	1 2 3				
	1 2 3 4				
l	1 2 3 4 5				
l	1 2 3 4 5 6				
	1 2 3 4 5 6 7 2				
	1 1 2 3 4 5 6 7 8 9				
	1 1 2 3 4 5 6 7 8 9 10				

Sections	Description					
Import/Export Card Data	To import or export the card data file. Only support .xml					
	format.					
Card Status	 Normal: choose Normal mode when reading card. 					
	• Card Issuing: Choose Card Issuing mode when writ					
	card					
Card Setting	• IC Key DoorNum: R23X can support to connect 2 doors.					
	Choose one and add the valid card for unlock.					
	• IC Key Name: To setup corresponding name for the card.					
	• IC Key Code: Place the card in the Card-reading area,					
	click "obtain" to read the card code, click "Add" and the					
	card information will show in the Door Card					
	Management list.					
Door Card Management	Valid card information will show in the list. Users can tick the					
	current card information then delete one or all in the list.					

2.4. Account

2.4.1 Basic

	Account-Basic			Help
		SIP Account		Nets
	Status	Disabled		Max length of characters for input
	Account	Account 1	•	box:
	Account Active	Disabled	•	255: Broadsoft Phonebook server
	Display Label			127: Remote Phonebook URL &
	Display Name			AUTOP Manual Update Server UR
	Register Name			63: The rest of input boxes
	User Name			Warning ·
	Password			Warning .
				Field Description :
		SIP Server 1		Submit Shortcut
				Submit Cancel
	Server IP		Port 5060	
	Registration Period	1800	(30~65535s)	
ſ		SIP Server 2		
	Server IP		Port 5060	
	Registration Period	1800	(30×65535s)	
	Registration renou	[1000	(30 033333)	
	Outb	ound Proxy Server		
	Enable Outbound	Disabled	•	
	Server IP		Port 5060	
	Backup Server IP		Port 5060	
		fransport Type		
100 C	Transport Type	UDP		
		NAT		
	NAT	Disabled	•	

Sections	Description
SIP Account	To display and configure the specific Account settings.
	• Status: To display register result.
	• Display Name: Which is sent to the other call party for
	display.
	• Register Name: Allocated by SIP server provider, used for
	authentication.
	• User Name: Allocated by your SIP server provide, used
	for authentication.
	 Password: Used for authorization.

SIP Server 1	To display and configure Primary SIP server settings.				
	• Server IP: SIP server address, it could be an URL or IP				
	address.				
	• Registration Period: The registration will expire after				
	Registration period, the IP phone will re-register				
	automatically within registration period.				
SIP Server 2	To display and configure Secondary SIP server settings.				
	Used for redundancy, if registering to Primary SIP server fails,				
	the IP phone will go to Secondary SIP server for registering.				
	Note: Secondary SIP server is used for redundancy, it can be				
	left blank if there is not redundancy SIP server in user's				
	environment.				
Outbound Proxy Server	To display and configure Outbound Proxy server settings.				
	An outbound proxy server is used to receive all initiating				
	request messages and route them to the designated SIP				
	server.				
	Note: All SIP request messages from the IP phone will be sent				
	to the outbound proxy server forcefully when configured.				
Transport Type	To display and configure Transport type for SIP message				
	• UDP: UDP is an unreliable but very efficient transport				
	layer protocol.				
	• TCP: Reliable but less-efficient transport layer protocol.				
	• TLS: Secured and Reliable transport layer protocol.				
	• DNS-SRV: A DNS RR for specifying the location of				
	services.				
NAT	To display and configure NAT(Net Address Translator)				
	settings.				
	• STUN: Simple Traversal of UDP over NATS is a solution to				
	solve NAT issues.				
	Note: By default, NAT is disabled.				

2.4.2 Account-Advanced

Account-Advar	iced				Help		
	SI	P Account			Note -		
Account		Account 1	•		Max length of characters for inp		
					255: Broadsoft Phonebook serv		
Codecs			127: Remote Phonebook URL &				
Disabled Co	PCMU PCMU PCM4	*			AUTOP Manual Update Server L 63: The rest of input boxes		
	G722 G729				Warning :		
	6725				Field Description :		
	>>	1					
	<<				Submit Shortcut Submit Cancel		
	-	-					
	9	ubscribe					
MWI Subscr	ihe	Disabled	•				
MWI Subscr	ibe Period	1800	(1	120~65535s)			
Voice Mail N	umber	1000	(1	20. (5525-)			
ACD Expire		1800	()	120~65535s) 120~65535s)			
		DTME					
Time		DIME	-				
How To Not	fy DTMF	Disabled	•				
DTMF Paylo	ad	101	(9	96~127)			
		Call					
Max Local S	IP Port	5062	t)	1024~65535)			
Min Local SI	P Port	5062	(1	1024~65535)			
Auto Answe	r	Enabled	•				
Provisional F	Response ACK	Disabled	•				
Invite with u	n user=phone ser=phone	Disabled	•				
Anonymous	Call	Disabled	•				
Missed Call	Log	Enabled	•				
Prevent SIP	Hacking	Disabled	•				
	Ses	sion Timer					
Active		Disabled	•				
Session Exp Session Ref	ire resher	1800 UAC	•	(90~7200s)			
		BLFList					
BLFList URI BLFList Pickt	Jp Code		_				
BLFList Barg	eIn Code						
	E	ncryption					
Voice Encry	otion(SRTP)	Disabled	•				
		NAT					
UDP Keep A	ive Messages	Disabled	•				
UDP Alive M	sg Interval	30	(5	5~60s)			
RPort		Disabled	•				
	U	ser Agent					
User Agent							
	Submit	Canc	el				

Sections	Description
SIP Account	Select an account to display the settings.
Codecs	To display and configure available/unavailable codecs list.
	Codec means coder-decoder which is used to transfer analog
	signal to digital signal or vice versa.
	Familiar codecs are PCMU(G711U), PCMA(G711A), G722
	(wide-bandth codecs), G729 and so on.
Subscribe	To display and configure MWI, BLF, ACD subscription settings.
	• MWI: Message Waiting Indicator which is used to
	indicate whether there is unread new voice message.
	• BLF: BLF is short for Busy Lamp Field which is used to
	monitor the designated extension status.
	• ACD: Automatic Call Distribution is often used in offices
	for customer service, such as call center. The setting
	here is to negotiate with the server about expire time of
	ACD subscription.
DTMF	To display and configure DTMF settings.
	• Type:Support Inband,Info,RFC2833 or their combination.
	• How To Notify DTMF: Only available when Type is Info.
	• DTMF Payload: To configure payload type for DTMF.
	Note: Type RFC2833 is set by default as a standard. Type
	Inband uses inband frequency to indicate DTMF tone which is
	most used to be compatible to traditional telephone server.
	Type Info use SIP Info message to indicate DTMF message.
Call	To display and configure call-related features.
	• Max Local SIP Port: To configure maximum local sip port
	for designated account.
	• Min Local SIP Port: To configure minimum local sip port
	for designated account.
	• Caller ID Header: To configure which Caller ID format to
	fetch for displaying on Phone UI.
	• Auto Answer: IP phone will answered the incoming call
	for designated account automatically when enabled.
	• Ringtones: Choose the ringtone for each account.
	• Provisioning Response ACK: 100% reliability for all
	provisional messages, this means it will send ACK every
	time when the IP phone receives a provisional SIP
	message from SIP server.
	• User=phone: If enabled, IP phone will send user=phone
	within SIP message.
	• PTime: Interval time between two consecutive RTP
	packets.
	• Anonymous Call: If enabled, all outgoing call to the
	designated account will be anonymous number.

	• Anonymous Call Rejection: If enabled, all incoming
	anonymous-out call of the designated account will be
	rejected.
	 Missed Call Log: To display the miss call log.
	• Prevent SIP Hacking: Enable to prevent SIP from hacking.
Session Timer	To display or configure session timer settings.
	• Active: To enable or disable this feature. If enable, the
	on going call will be disconnected automatically once
	the session expired unless it's been refreshed by UAC or
	UAS.
	 Session Expire: Configure session expire time.
	• Session Refresher: To configure who should be response
	for refreshing a session.
	Note: UAC means User Agent Client, here stands for IP
	phone. UAS means User Agent Server, here stands for SIP
	server.
BLF List	To display or configure BLF List URI address.
	BLF List URI: BLF List is short for Busy Lamp Field List.
	BLF List Pick Up Code: To set the BLF pick up code.
	BLF List Barge In Code : To set the BLF barge in code.
Encryption	To enable or disabled SRTP feature.
	• Voice Encryption(SRTP): If enabled, all audio signal
	(technically speaking it's RTP streams) will be encrypted
	for more security.
NAT	To display NAT-related settings.
	• UDP Keep Alive message: If enabled, IP phone will send
	UDP keep-alive message periodically to router to keep
	NAI port alive.
	UDP Alive Msg Interval: Keep alive message interval.
	• Rport: Remote Port, if enabled, it will add Remote Port
	into outgoing SIP message to designated account.
User Agent	One can customize User Agent field in the SIP message; If
	user agent is set to specific value, user could see the
	information from PCAP. If user agent is not set by default,
	user could see the company name, model number and
	tirmware version from PCAP

2.5. Network

2.5.1 Basic

	Network-Basic		Help
m		LAN Port	Note :
t k æd y	 DHCP Static IP IP Address Subnet Mask Default Gateway LAN DNS1 LAN DNS2 Submit 	192.168.1.100 255.255.255.0 192.168.1.1 8.8.8.8 Cancel	Max length of characters for input box: 255: Broadsoft Phonebook server address 127: Remote Phonebook URL & AUTOP Manual Update Server URL 63: The rest of input boxes Warning : Field Description : Submit Shortcut Submit Cancel
l			

Sections	Description
LAN Port	To display and configure LAN Port settings.
	• DHCP: If selected, IP phone will get IP address, Subnet
	Mask, Default Gateway and DNS server address from
	DHCP server automatically.
	• Static IP: If selected, you have to set IP address, Subnet
	Mask, Default Gateway and DNS server manually.

2.5.2 Advance

Network-Adva	nced			Help
	Lo	cal RTP		Note :
	Starting RTP Port	11800	(1024~65535)	Max length of characters for input
	Max RTP Port	12000	(1024~65535)	255: Broadsoft Phonebook server
		CNIMD		address 127: Remote Phonebook URL &
		SNMP		AUTOP Manual Update Server UR
	Active	Disabled	•	63: The rest of input boxes
	Port		(1024~65535)	Warning :
	Trusted IP			
				Field Description :
		VLAN		Submit Shortcut
LAN Port	Active	Disabled	•	Submit Cancel
	VID	1	(1~4094)	
	Priority	0	•	
		R069		
	Active	Disabled	-	
	Version	1.0	•	
ACS	URL			
	User Name			
	Password			
Periodic Inform	n Active	Disabled	•	
	Periodic Interval	1800	(3~24×3600s)	
CPE	URL			
	User Name			
	Password			
	Submit	C	ancel	

Sections	Description
Local RTP	To display and configure Local RTP settings.
	• Max RTP Port: Determine the maximum port that RTP
	stream can use.
	• Starting RTP Port: Determine the minimum port that RTP
	stream can use.
SNMP	To display and configure SNMP settings.
	• Active: To enable or disable SNMP feature.
	• Port: To configure SNMP server's port.
	• Trusted IP: To configure allowed SNMP server address, it
	could be an IP address or any valid URL domain name.
	Note: SNMP (Simple Network Management Protocols) is an
	Internet-standard protocol for managing devices on IP
	networks.

VLAN	To display and configure VLAN settings.
	• Active: To enable or disable VLAN feature for designated
	port.
	• VID: To configure VLAN ID for designated port.
	• Priority: To select VLAN priority for designated port.
	Note: Please consult your administrator for specific VLAN
	settings in your networking environment.
TR069	To display and configure TR069 settings.
	• Active: To enable or disable TR069 feature.
	• Version: To select supported TR069 version (version 1.0
	or 1.1).
	• ACS/CPE: ACS is short for Auto configuration servers as
	server side, CPE is short for Customer-premise
	equipment as client side devices.
	• URL: To configure URL address for ACS or CPE.
	• User name: To configure username for ACS or CPE.
	• Password: To configure Password for ACS or CPE.
	• Periodic Inform: To enable periodically inform.
	• Periodic Interval: To configure interval for periodic
	inform.
	Note: TR-069(Technical Report 069) is a technical
	specification entitled CPE WAN Management Protocol
	(CWMP).It defines an application layer protocol for remote
	management of end-user devices.

2.6. Phone

2.6.1 Time/Lang

	9,9		
			LogOut
► Status	e/Lang		Help
► Intercom		NTP	Note
 Account Network Phone 	Time Zone Primary Server Secondary Server Update Interval	0 GMT • 0.pool.ntp.org 1.pool.ntp.org 3600 (>= 3600s)	Max length of characters for input box: 255: Broadsoft Phonebook server address 127: Remote Phonebook URL & AUTOP Manual Indate Server URL
Time/Lang Cal Feature Voice Multicast Cal Log • Upgrade • Security	Sub	mt Cancel	63: The rest of input boxes Warning : Field Description : Submit Shortcut Submit Cancel
Sections		Descri	ption
NIP	N Sy Se	 Configure NTP server related Time Zone: To select local Primary Server: To con address. Secondary Server: To con address, it takes effect unreachable. Update interval: To con consecutive NTP requests. ote: NTP, Network Time Pro with response GMT time 	Time Zone for NTP server. Time Zone for NTP server. Tigure primary NTP server figure secondary NTP server if primary NTP server is figure interval between two tocol is used to automatically NTERNET time, since NTP per you need to specify the
	Ті	me Zone for IP phone to deci	de the local time.

2.6.2 Call Feature

	Phone-Call Feature		Help
ntercom	Mc	ode Phone	Note :
count	Mode	Phone Custom	Max length of characters for input
etwork		DND	255: Broadsoft Phonebook server address
ione			127: Remote Phonebook URL &
	Account	Disabled	AUTOP Manual Update Server URL
ime/Lang	Return Code When DND	486(Busy Here)	us. The resc of input boxes
Call Feature	DND On Code		Warning :
/oice	DND Off Code		Field Description :
lulticast	Intercom		Submit Shortcut
Call Log	Active	Enabled T	Submit Cancel
Door Log	Intercom Mute	Disabled v	
pgrade		Others	
ecurity	Return Code When Refuse	486(Busy Here)	
	Auto Answer Delay	0 (0~5s)	
	Auto Answer Mode:	Audio 🔻	
	Multicast Codec	PCMU V	
	Direct IP	Enabled V	
	Submit	Cancel	

Sections	Description		
Mode	 Mode: Select the desired mode. 		
DND	DND (Do Not Disturb) allows IP phones to ignore any		
	incoming calls.		
	• Return Code when DND: Determine what response code		
	should be sent back to server when there is an incoming		
	call if DND on.		
	• DND On Code: The Code used to turn on DND on		
	server's side, if configured, IP phone will send a SIP		
	message to server to turn on DND on server side if you		
	press DND when DND is off.		
	• DND Off Code: The Code used to turn off DND on		
	server's side, if configured, IP phone will send a SIP		
	message to server to turn off DND on server side if you		
	press DND when DND is on.		
Intercom	Intercom allows user to establish a call directly with the		
	callee.		
	 Active: To enable or disable Intercom feature. 		
	• Intercom Mute: If enabled, once the call established, the		

	callee will be muted.
Others	• Return Code When Refuse: Allows user to assign specific
	code as return code to SIP server when an incoming call
	is rejected.
	• Auto Answer Delay: To configure delay time before an
	incoming call is automatically answered.
	• Auto Answer Mode: To set video or audio mode for auto
	answer by default.
	• Direct IP: Direct IP call without SIP proxy.

2.6.3 Voice

tue				
lius	Voice			Help
ercom		Mic Volume		Note :
ount	Mic Volume	8	(1~15)	Max length of characters for input hox:
twork				255: Broadsoft Phonebook server
one		Speaker Volume		127: Remote Phonebook URL &
me/Lang	Speaker Volume	8	(1~15)	AUTOP Manual Update Server URL 63: The rest of input boxes
all Feature	Cubmit		Cancel	Warning :
oice	Subline		Calicer	Field Description :
ulticast				Submit Shortcut
allea				Submit Cancel
an LOg				
grade				
curity				

Sections	Description
Mic Volume	To configure Microphone volume , from 1-15,8 by default.
Speaker Volume	To configure Speaker Volume, from 1-15,8 by default.

2.6.4 Phone-Multicast

cittoin						incip
		Multicast	Setting			Note :
count	Paging Barge Paging Priority Active		Disabled Enabled			Max length of characters for input box: 255: Broadsoft Phonebook server
twork						
one		Priority	List			127: Remote Phonebook URL & AUTOP Manual Undate Server URL
ne/Lang						63: The rest of input boxes
Feature	IP Address	Listening Addres	s	Label	Priority	Warning :
	1 IP Address				1	
ice	2 IP Address				2	Field Description :
ulticast	3 IP Address				3	Submit Shortcut
Log	4 IP Address				4	Submit Cancel
irade	5 IP Address				5	
ruue	6 IP Address				6	
urity	7 IP Address				7	
	8 IP Address				8	
	9 IP Address				9	
	10 IP Address				10	

Sections	Description		
Multicast Setting	To display and configure the Multicast setting.		
	• Paging Barge: Choose the multicast number ,range		
	from 1 to 10.		
	• Paging priority Active: Enable o disable the multicast.		
Priority List	To setup the multicast parameters.		
	• Listening Address: Enter the IP address you need to		
	listen		
	• Label: Input the label for each listening address		

2.6.5 Phone-Call Log

Call	Log						Help
Cal	History		All	•			Note :
Index	Туре	Date	Time	Local Identity	Name	Number	Max length of characters for inp
1							255: Broadsoft Phonebook serve
2							address
3							127: Remote Phonebook URL &
4							AUTOP Manual update Server U 63: The rest of input hoves
5							ost the rescontinger boxes
7							Warning :
8							ci lla i u
9							Field Description :
10							
11							
12							
13							
14							
15					A CONTRACTOR OF THE OWNER		
Page	1 •	Prev		Next	Delete	Delete All	

Sections	Description
Call History	To display call history records.
	Available call history types are All calls, Dialed calls, Received
	calls, Missed calls, Forwarded calls.
	Users can check the call history in detail. Tick the number to
	delete or delete all logs. R23X supports 100 call logs.

2.7. Upgrade

2.7.1 Basic

Upgrade-Basic	Help
Firmware Version Hardware Version Upgrade Reset To Factory Setting Reboot	0.0.0 林波 length of characte box: 255: Broadsoft Phonela address 127: Remote Phonebo AUTOP Manual Update 63: The rest of input I Warning : Field Description

Sections	Description
Upgrade	To select upgrading zip file from local or a remote server
	automatically.
	Note: Please make sure it's right file format for right model.
Firmware version	To display firmware version, firmware version starts with
	MODEL name.
Hardware Version	To display Hardware version.
Reset to Factory Setting	To reset IP phone's setting to factory settings.
Reboot	To reboot IP phone remotely from Web UI.

2.7.2 Advance

Upgrade-Adva	nced			Help
	PNP Or	otion		
PNP Config		Enabled		Note : Max length of characters for input
PNP Coning		Enabled		box:
	DHCP O	ption		address
Custom Ont	00		(128~254)	127: Remote Phonebook URL &
(DHCP Optio	n 66/43 is Enabled by Default)		(120-254)	63: The rest of input boxes
	Manual			Warning :
	Manuali	Autop		Field Description :
URL				
User Name Password				Submit Shortcut
Common AE	S Kev	•••••		Submit
AES Key(MA	c)	•••••		
	AutoP Im	nmediately		
	Automatic	c Autop		
Mode		Power On	•	
Schedule		Sunday 🔻		
		22 H	our(0~23)	
		0 N	1in(0~59)	
Clear MD5		Submit		
Export Auto	o l'emplate	Export		
Submit	Cancel			
	System	ı Log		
LogLevel		3 🔻		
Export Log		Export		

Sections	Description
PNP Option	To display and configure PNP setting for Auto Provisioning.
	• PNP: Plug and Play, once PNP is enabled, the phone will
	send SIP subscription message to PNP server automatically
	to get Auto Provisioning server's address.
	By default, this SIP message is sent to multicast address
	224.0.1.75(PNP server address by standard).
DHCP Option	To display and configure custom DHCP option.
	• DHCP option: If configured, IP Phone will use designated
	DHCP option to get Auto Provisioning server's address via
	DHCP.

	This setting require DHCP server to support corresponding
	option.
Manual Update Server	 To display and configure manual update server's settings. URL: Auto provisioning server address. User name: Configure if server needs an username to access, otherwise left blank. Password: Configure if server needs a password to access, otherwise left blank. Common AES Key: Used for IP phone to decipher common Auto Provisioning configuration file. AES Key (MAC): Used for IP phone to decipher MAC-oriented auto provisioning configuration file(for example, file name could be 0c1105888888.cfg if IP phone's MAC address is 0c1105888888).
	Note: AES is one of many encryption, it should be configure
	only configure file is ciphered with AES, otherwise left blank.
AutoP	To display and configure Auto Provisioning mode settings.
	This Auto Provisioning mode is actually self-explanatory.
	For example, mode "Power on" means IP phone will go to do
	Provisioning every time it powers on.
System Log	To display system log level and export system log file.
	• System log level: From level 0~7.The higher level means
	the more specific system log is saved to a temporary file.
	By default, it's level 3.
	• Export Log: Click to export temporary system log file to local PC.

2.8. Security

2.8.1 Basic

Web Password Modify Note : User Name admin • Current Password 255: Broadsoft Phonebook serve address Confirm Password 2127: Remote Phonebook URL & AUTOP Manual Update Server U Submit Cancel Warning :
User Name admin Max length of characters for inp Current Password Confirm Password Confir
Submit Shortcut Submit Cancel

Sections	Description
Web Password Modify	To modify user's password.
	• Current Password: The current password you used.
	• New Password: Input new password you intend to use.
	• Confirm Password: Repeat the new password.