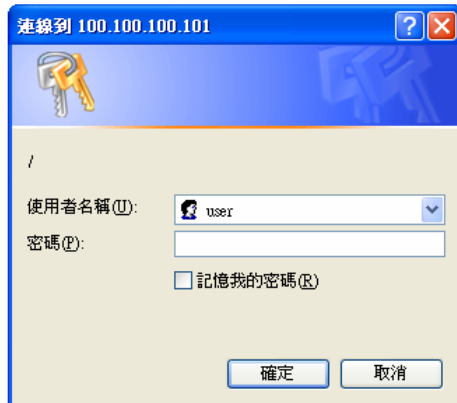


IP0025 IP Phone web page setting

The web interface has two privilege levels: Administrator and User. Both privilege levels are password protected by default. The user names for the Administrator and User are “admin” and “user” respectively. And the default password for both privilege levels is “voip”.

The major difference between an Administrator and a User is Administrator has full control over the VoIP device while User only has limited control. Below is a screen shot of the login prompt.



Home

This following pages are the first page displayed when the device is logged in by an Administrator or a User. As the screen shots shown below, user level privilege doesn't have access to the configuration page of CODECS, Download and Configuration.

It shows how long the device has been running since its last reboot, the IP address the device is currently using, whether or not the device is password protected, and also displays the main application and downloader application firmware versions. In addition, MAC address of the WAN port, and serial number of the device, if it has one, are also displayed in this page.

The image shows two screenshots of the device's home page. Both screenshots have a blue header with navigation links: Home, LAN, SIP, System, Reset, Logout. A blue sidebar on the left contains the word 'Home'. The main content area has a teal header: 'Welcome to the CS6222 VoIP IPP200V05 Phone download and configuration utility. Select from the configuration options in the menu on the top.' Below this is a section titled 'System Information' with the following data:

System Uptime:	0 days, 1h 57m 7s
NTP time:	10:48PM 05/11/2006 (GMT-8) DST
LAN IP Address:	100.100.100.101 (Dynamic)
MAC Address:	00:ff:00:fa:09:01
Serial Number:	
Security:	Password installed
Application Code Version:	VR 4.1 Beta1 (MSCS P20005) Build-Date: May 4 2006
Downloader Code Version:	VR 4.2 Beta1 (MSCS P20005)

The second screenshot is identical but shows a system uptime of 0 days, 1h 54m 45s and an application code version of VR 4.1 **Beta1** (MSCS P20005) Build-Date: May 4 2006.

LAN

The following page allows configuration of the device's local network settings. Sub-pages are available for the following on the left of page: the LAN interface status, configuration of the LAN interface settings, and configuration of DHCP server settings, and Port Forwarding (NAPT) Settings.

The page displays the current status of the LAN interface, including the IP address and other network settings the interface is currently using.

Home **LAN** SIP CODECS System Download Configuration Reset Logout

LAN Status

LAN Settings

LAN Status

Interface Status

Enabled: Yes
 Protocol: Ethernet
 Interface Status: **Up**
 Link Status: 100M bps, Full Duplex

Network Settings

IP Address: **100.100.100.101**
 MAC Address: 00:ff:00:fa:09:01
 Subnet Mask: 255.255.255.0
 Default Gateway: 100.100.100.9
 Host Name:
 Domain Name: Kingtel
 Priority Tag: Not set

LAN Settings

The following page allows the user to configure the private LAN interface settings. Assign an IP address to the LAN Ethernet port. This IP address is also the default router address for the devices on the private LAN. The default LAN interface IP address is set to 192.168.1.1. Enter the subnet mask for the private LAN. If you wish to set the broadcast and multicast limits for the bridge/router, enter these values as percentages of the LAN interface Ethernet bit rate. Leaving these values blank will imply values of 100%.

Press "Save LAN Settings" to save and apply the LAN interface settings. Any new settings will take effect immediately.

Home **LAN** SIP CODECS System Download Configuration Reset Logout

LAN Status

LAN Settings

LAN Configuration

Use DHCP to obtain LAN configuration

Specify fixed LAN configuration

IP Address:

IP Netmask:

IP Gateway:

Automatically obtain DNS server settings

Manual DNS server settings

IP DNS Server:

IP DNS Server2:

Host Name:

Domain Name:

SIP Server

The following page allows configuration of the SIP server and endpoint settings.

Enter the address and port value of the SIP server. The address may be an IP address or the name of the server. If no SIP server address is entered, the device will attempt to self provision a SIP server using a DNS query. For this to be successful, ensure that the DNS settings on the device include a DNS server address which is configured with the SIP server address and will respond to the query, and the appropriate domain name of the network.

If you wish to specify a special SIP domain name, you may enter the domain name here. If no domain name is entered, the SIP domain name will be set to that of the network (i.e. that which is obtained via DHCP, or specified on the LAN settings page).

The currently provisioned SIP Server and Domain are displayed beside "SIP Server Settings" for informational purposes. Select whether or not to send a Registration Request to the SIP server by checking the box next to "Send Registration Request".

For the endpoint, set the dial plan to be used by all lines, and select the transport method to be used for SIP signaling (either UDP or TCP). For each line on the endpoint (NOTE: The IP Phone has a single line), enter the Line Phone Number, Caller-ID Name, signaling port value, authentication Username and Password, and select if AEC is to be performed on this line.

Press "Save SIP Settings" to save the new values.

Home LAN **SIP** CODECS System Download Configuration Reset Logout

Server

Extensions

Digit Map

User 1

OoB Signalling

ToS/DiffServ

Tone

Ring

Service Code

SIP Server Configuration

<p>Primary Server Settings</p> <p>(Current Server: 100.100.100.4 ; 5060 ; Domain: 100.100.100.4)</p> <p>* Address: <input type="text" value="100.100.100.4"/> (IP or FQDN)</p> <p>* Port: <input type="text" value="5060"/></p> <p>Domain Name: <input type="text"/></p> <p><input checked="" type="checkbox"/> Send Registration Request with Expire Time <input type="text" value="1800"/></p> <p>Outbound Proxy IP: <input type="text"/> (IP or FQDN)</p> <p>Outbound Proxy Port: <input type="text" value="5082"/></p>	<p>Secondary Server Settings</p> <p>(Current Server: ; 0 ; Domain:)</p> <p>* Address: <input type="text"/> (IP or FQDN)</p> <p>* Port: <input type="text" value="5060"/></p> <p>Domain Name: <input type="text"/></p> <p><input type="checkbox"/> Send Registration Request with Expire Time <input type="text"/></p> <p>Outbound Proxy IP: <input type="text"/> (IP or FQDN)</p> <p>Outbound Proxy Port: <input type="text" value="5082"/></p>
---	---

RTP Port Number Setting(5000~65535) ~

NAT Traversal Settings

NONE

UPnP Control Point

STUN Server IP: (IP or FQDN) STUN Server Port:

Extension

The following page allows specification of the SIP signaling stack behavior under certain scenarios.

1. Support PRACK method: If you wish for the SIP stack to implement reliable transmission of provisional responses according to RFC 3262 (using the PRACK method) ,check the option.
2. Encode SIP URI with user parameter: include the user parameter "user=phone" in the SIP URI headers.
3. Session Timer use UPDATE method: Session timer use update instead of reinvite.
4. Call Hold using C=0.0.0.0: using the call hold method described in RFC2543. If unchecked, the call hold would follow RFC3263 method.
5. Enable Global Number support (E.164): add prefix "+" for dialed numbers in sip invitation.
6. Send NOTIFY for REFER request: send out NOTIFY request to transferer for unattended and attended call transfer.
7. Send Message Waiting Indicator (MWI) SUBSCRIBE command: send SUBCRIBE after registered to server to check if there are any messages to be read.
8. Send INVITE with Timer header: encode Timer header in all INVITE requests for ringing timeout.
9. Enable SIP session timer: If you wish for the SIP stack to implement a session timer according to "draft-sipsession-timer", select the option.
10. SIP T1 Timer, SIP T2 Timer, and SIP T4 Timer: please refer to RFC3261.

Press "Save SIP Extension Settings" to save the new values.

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SIP Extensions

- Support PRACK method with provisional response reliability
- Encode SIP URI with user parameter
- Session Timer use UPDATE method
- Call Hold using c=0.0.0.0 (RFC 2543) in SDP
- enable Global Number support (E.164)
- send NOTIFY for REFER request
- send Message Waiting Indicator (MWI) SUBSCRIBE command
- No Authorization Header in re-REGISTER
- Check existence of To Tag in INVITE 2xx response

ToS/DiffServ
Tone
Ring
Service Code

SIP Timers

- Send INVITE with Timer header value: Seconds
- SIP Session Timer value: Seconds
- SIP Keep Alive Timer value: Seconds
- Conditional Call Forwarding Timer: Seconds

Inter Digit Timer: Seconds.

SIP T1 Timer: Milliseconds

SIP T2 Timer: Milliseconds

SIP T4 Timer: Milliseconds

Save SIP Extension Settings

Digimap

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Gateway Settings

Dial Plan:

Name	Digits for matching	Operation	Digits for operation
Digit Map1	<input type="text"/>	dropped	<input type="text"/>
Digit Map2	<input type="text"/>	dropped	<input type="text"/>
Digit Map3	<input type="text"/>	dropped	<input type="text"/>
Digit Map4	<input type="text"/>	dropped	<input type="text"/>
Digit Map5	<input type="text"/>	dropped	<input type="text"/>
Digit Map6	<input type="text"/>	dropped	<input type="text"/>
Digit Map7	<input type="text"/>	dropped	<input type="text"/>
Digit Map8	<input type="text"/>	dropped	<input type="text"/>

*The fields must be set to 'null' if this field will do nothing.

- # use as a quick dial function * use as a quick dial function
- To enable # to be recognized as dial number To enable * to be recognized as dial number

Save SIP Settings

User 1

The following page allows the user to configure the device with phone number, caller ID, username and password specified by the service provider.

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[Service Code](#)

User 1 Configuration

Line 1	Phone Number	CallerID Name	Port	User Name	Password
Primary Server	<input type="text" value="5566"/>	<input type="text" value="Jeff"/>	<input type="text" value="5060"/>	<input type="text"/>	<input type="text"/>
Secondary Server	<input type="text"/>	<input type="text"/>	<input type="text" value="5060"/>	<input type="text"/>	<input type="text"/>

Line1 AEC Control v

Line1 Gain Control

Input Gain Control (-12 ~ 18)db db

Output Gain Control (-12 ~ 18)db db

Supplementary Service Subscription

Enable Call Waiting (Reject second incoming call)

Enable Caller-ID Display

Reject anonymous call

Block Caller-ID in outgoing call

Distinctive Ring Settings

Ring1 Caller: Ring2 Caller:

Ring3 Caller: Ring4 Caller:

Ring5 Caller: Ring6 Caller:

Ring7 Caller: Ring8 Caller:

Speed Dial Settings

Speed Dial 1: Speed Dial 2:

Speed Dial 3: Speed Dial 4:

Speed Dial 5: Speed Dial 6:

Speed Dial 7: Speed Dial 8:

OOB Signaling

The following page allows configuration of the out-of-band signaling options for SIP. Select whether OOB telephone event signaling is to be done using the SIP INFO message, or to be done via RFC2833 RTP signaling.

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RTP Telephone Event Configuration

Send DTMF Events

RFC2833 signalling using payload value:

Regenerate OOB DTMF tone

Save OOB Settings

ToS/Diffsev

The following page is used to configure the Type-of-Service/Diffserv byte values which are to be used in the IP header of all transmitted SIP signaling packets and RTP packets. The ToS/DiffServ byte values are entered as two-digit hexadecimal values. If no special ToS/DiffServ value is to be used for a particular traffic type, enter "00" or leave the setting empty. Press "Save ToS/DiffServ Settings" to save these new settings.

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ToS/DiffServ

Call Signalling Packets: (2 Hex digit byte value)

RTP Packets: (2 Hex digit byte value)

Save ToS/DiffServ Settings

Tone

The following page is used to configure Tones which applies in order to acknowledge users.

Dial Tone: The tone you hear when you pick up handset

Recall Dial Tone: The tone when you hold callee and prepare to make another call.

Confirm Tone: The tone after you've set up some service, like DND (Do Not Disturb), Call Forwarding, etc.

Ring Back Tone: The audible ringing you hear before callee picks up and answers your call.

Busy Tone: The tone indicates the number you dialed is in busy now.

Reorder Tone: The tone you hear if you dial an invalid number or the call is not available.

Receiver-Off-Hook Tone: The tone to alert you to place the handset on-hook.

Message-Waiting-Indicator Tone: The tone to notify you to call for message box.

Call-Waiting-Indicator Tone: The tone to make you aware of the second incoming call while you're in conversations.

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Tone Configuration

Dial Tone:	<input type="text"/>
Recall Dial Tone:	<input type="text"/>
Confirm Tone:	<input type="text"/>
Ring Back Tone:	<input type="text"/>
Busy Tone:	<input type="text"/>
Reorder Tone:	<input type="text"/>
Receiver-Off-Hook Tone:	<input type="text"/>
Message-Waiting Indicator Tone:	<input type="text"/>
Call-Waiting Indicator Tone:	<input type="text"/>

RING

The following page is used to configure Ring Cadences required by Rings, Call-Waiting-Indicator, and Distinctive Ring features.

- Ring Configuration:

Default Ring: Default ring cadence when the phone rings.

Call-Waiting Reminder Ring: Ring cadence of Call-Waiting Reminder Ring.

- Distinctive Ring Configuration:

Distinctive Ring 1-8: Ring cadences provided for distinctive ring function.

You may customize them according the fixed format.

For example,

ON(500),OFF(500),R

Will cause 500 milliseconds ring on, then 500 milliseconds off, and repeat steadily.

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Ring Configuration

Default Ring:
Call-Waiting
Reminder Ring:

Distinctive Ring Configuration

Distinct Ring 1:
Distinct Ring 2:
Distinct Ring 3:
Distinct Ring 4:
Distinct Ring 5:
Distinct Ring 6:
Distinct Ring 7:
Distinct Ring 8:

Save Ring Settings

Service Code

The following page is used to configure Service Code, you can subscribe for service by setting through keypad.

Service Code Configuration:

Conditional Call Forwarding: *70#

Call Forward On: *72#

Call Forward Off: #72#

Do Not Disturb On: *74#

Do Not Disturb Off: #74#

Call Transfer: *98#

Call Return: *69#

Speed Dial: *68

Note: Do NOT change the service code values unless there is a conflict between the settings of your VoIP device and the settings provided by your service provider.

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ToS/DiffServ

Tone

Ring

Service Code

Service Code Configuration

Conditional Call Forwarding:

Call Forwarding On Busy:

Call Forwarding On:

Call Forwarding Off:

Do Not Disturb On:

Do Not Disturb Off:

Call Transfer:

Call Return:

Speed Dial:

- use *XX# or #xx# format , x=01-99

Save Service Code Settings

CODECS

If the device is running one of the four VoIP applications, the following page is available for configuring the audio CODEC parameters, as well as the Jitter Buffer settings for the CODEC decoders.

Enter which CODECs are to be supported. For some protocols (e.g. H.323 and SIP), the G711U and G711A protocols are always supported by default. For MGCP and H.248, it is possible to remove these CODECs from the devices list of supported "capabilities".

Select which complex codec is to be supported. Due to memory limitations, it is not possible to select more than one complex codec.

Select the packetization period to be used for each selected CODEC. For MGCP, a range of packetizations may be provided for each CODEC (to be advertised in the device's "capabilities" set).

Select whether Silence Suppression is to be supported for each CODEC.

The Jitter Buffer settings apply to all active CODEC decoders. You may choose between an adaptive jitter buffer and a fixed jitter buffer. For an adaptive jitter buffer, choose the maximum allowable playout delay (in milliseconds). For a fixed jitter buffer, choose the fixed playout delay (in milliseconds).

Finally, select whether or not a decoder should automatically switch from an adaptive jitter buffer to a fixed jitterbuffer upon fax/modem tone detection. Adaptive jitter buffers are sometimes detrimental to fax transmission over G711 CODECs if they have to adapt too rapidly or too extensively due to inconsistent and widespread packet delays. In these adverse network conditions, a fixed jitter buffer provides superior performance when handling incoming fax transmissions over G711 CODECs. Press "Save CODEC Settings" to save the new CODEC parameters.

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CODECS

Audio/CODEC Configuration

CODECS

Selected	Silence Suppression
<input checked="" type="checkbox"/> G711U	<input type="text" value="OFF"/> ▼
<input checked="" type="checkbox"/> G711A	<input type="text" value="OFF"/> ▼
<input type="checkbox"/> G723	<input type="text" value="OFF"/> ▼
<input type="checkbox"/> G726	<input type="text" value="OFF"/> ▼
<input type="checkbox"/> G729	<input type="text" value="OFF"/> ▼

Packetization ▼

Jitter Buffer

Adaptive Jitter Buffer: ▼ (maximum playout delay in milliseconds)

Fixed Jitter Buffer: ▼ (fixed playout delay in milliseconds)

Automatically switch to Fixed Jitter Buffer upon fax/modem tone detection

Save CODEC Configuration

System

Security

The password needed to access the VoIP device via web interface can be set in the following page. First enter the old password, then enter the new password and confirm new password. Click on the "Change Password" button to save the change. The VoIP device will log the user out and redirect the user to the login page.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security

Timeout

Localization

Handset

Port Number

Ringer Tone

SNMP

Set Security Password

Password is currently installed

Account: admin

Old password:

New password:

Confirm new password:

Timeout

This field will active, the password must be setting.

Click "System" item on the top menu.

Click "Security" on the left menu.

In HTTP Authentication Timeout field, input timeout value you want, then press change time button. After Http Authentication timeout value expired, it will redirect to password protected page.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security

Timeout

Localization

Handset

Port Number

Ringer Tone

SNMP

Set Web System Timeout

HTTP Authentication Timeout: (Seconds)

Localization

Timezone:

Find the current time from a list of cities.

Country Caller ID:

The caller ID can find out who's calling you and keep track of how often they call.

Users should set the country field according to their geographical location, otherwise the Caller ID function might not work properly.

Timezone setting:

Click "System" on the top menu.

Click "Localization" on the left menu.

In NTP Server field, enter a NTP server IP address.

If you want to use the default NTP server, this field should be blank.

In Time Zone drop down menu, select one time zone.

In Adjust clock for daylight savings checkbox, if your country has daylight savings time, you can enable it. Press Save Localization Settings button, then system will redirect to the web page of reset.

Country Caller ID setting:

Click "System" on the top menu. (1)

Click "Localization" on the left menu. (2)

In Country drop down menu, select one country (3).

Press Save Localization Settings button (7), then system will redirect to the web page of reset.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security
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Localization
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Port Number
Ringer Tone
SNMP

Localization

Country:

NTP Server:

Time Zone:

Adjust clock for daylight savings

Save Localization Settings

Handset

The following page allows user to configure the flash hook time interval.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security

Timeout

Localization

Handset

Port Number

Ringer Tone

SNMP

IP Phone Handset Configuration

Display String:

Display Number:

Program Key1:

Program Key2:

Program Key3:

Program Key4:

Program Key5:

Program Key6:

Program Key7:

Program Key8:

Program Key9:

Program Key10:

Program Key11:

Allow Network Configuration on LCD Menu

Control Timer Values

Hook Flash Timer Min: Milliseconds

Hook Flash Timer Max: Milliseconds

***Please enter a multiple of 10.(ex:10,20,30....)**

Save Handset Settings

Port Number

This allows the device to use different port number for the http server. The default port number is 80.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security
Timeout
Localization
Handset
Port Number
Ringer Tone
SNMP

Http Server Listen Port Number Setting

HTTP Server Port Number:

Change Port Number

Ringer Tone

The following page allows users to select desired ring tone from the drop down list, click Save Ring Tone Setting once selected.

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security
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Localization
Handset
Port Number
Ringer Tone
SNMP

Ring Tone Configuration

Select Default Ring Tone:

Save Ring Tone Settings

SNMP

The following page is used for configuring the device's SNMP manager. Configure the SNMP Trap Host IP address and community, the SNMP read and write community parameters, and the SNMP System Description and System Object ID parameters.

Press "Save SNMP Settings" to apply the new values. These settings will only take effect when the device is rebooted

Home LAN SIP CODECS **System** Download Configuration Reset Logout

Security
Timeout
Localization
Handset
Port Number
Ringer Tone
SNMP

SNMP Configuration

SNMP Trap Configuration

IP address: Trap Community:

SNMP Community Configuration

Read Community: Write Community:

SNMP System Configuration

System Description:

System Objectid:

Download

The following page provides two options for downloading a new firmware application image to the device. If you wish to download the new firmware image using TFTP, enter the filename of the ROM image and enter the IP address of the TFTP server on which this file resides.

To initiate the TFTP download process, press "Start TFTP Download." If the ROM image is stored on the same local machine you are using to access the device's web pages, you can choose to download the ROM file to the device using an HTTP post. Enter the filename of the ROM image or press "Browse" to help locate the file.

To initiate the HTTP download process, press "Start HTTP Download."

If the main application is executing at the time, the device will automatically reboot itself into the downloader mode and begin the download process. If the downloader application is executing at the time, the download process will begin. The download status will be displayed when the image download process is complete. Please refer to Section A "The Downloader Application" for more details on the download process.

Home LAN SIP CODECS System **Download** Configuration Reset Logout

Download
AutoUpdate

Download

Warning: The download process will reset the unit into the download mode. This will terminate all network connections and reset your browser connection.

TFTP Download method (Select remote TFTP server IP address and filename)

TFTP Server IP:

Filename:

HTTP Download method (Select filename on local browser machine)

Filename:

URL Download method (Currently ftp://, http:// and https:// are supported)

URL:

HTTP Download method:

When using http to upgrade firmware, it will check firmware version before starting download process.

In Filename field, press Browsing Button. (1)

Press Start HTTP Download button to start downloading file. (2)

If firmware version doesn't fit in with old version, it won't allow updating.

AutoUpdate

AutoUpdate: This feature is an auto-installation system. It can update device configuration values or firmware through TFTP, HTTP, or HTTPS.

Click "Download" item on the top menu. (1)

Click "AutoUpdate" item on the left menu. (2)

Select "YES" from Enable AutoUpdate drop down menu. (3)

Select item form Update Protocol drop down menu. (4)

In Update Server Address field, key in IP address by connected server. (5)

In Update Server Port field, key in port number by connected server. (6) (e.g.: 23/80/443)

Press "Save AutoUpdate" button. (7)

The web system will redirect to reset web page.

The screenshot shows a web interface with a blue header bar containing navigation links: Home, LAN, SIP, CODECS, System, **Download**, Configuration, Reset, Logout. A left sidebar menu is visible with 'Download' and 'AutoUpdate' (highlighted in yellow). The main content area is titled 'AutoUpdate (Auto Provisioning)' and contains the following form elements:

- Enable AutoUpdate:
- Update Protocol:
- Update Server Address:
- Update Server Port:

At the bottom of the form is a 'Save AutoUpdate' button.

Configuration

Backup

Backup configuration values of system settings to a file from the device:

Click "Configuration" item on the top menu. (1)

Click "Backup" item on the left menu. (2)

Press Backup Configure File button to save configuration file. (3)

The screenshot shows a web interface with a blue header bar containing navigation links: Home, LAN, SIP, CODECS, System, Download, **Configuration**, Reset, Logout. A left sidebar menu is visible with 'Backup' and 'Restore'. The main content area is titled 'Configure File Backup' and contains a single button labeled 'Backup Configure File'.

Restore

The following page is used to restore configuration values of system settings from a previously saved configuration file, or default factory values that stored inside the device.

Restore configuration from a file:

Click "Configuration" item on the top menu. (1)

Click "Restore" item on the left menu. (2)

Press Browsing button to select file by backup from local machine. (3)

Press Start Download button to process downloading file. (4)

After downloading file is finished, the web system will redirect to restart device.

Restore default factory values form device:

Click "Configuration" item on the top menu. (1)

Click "Restore" item on the left menu. (2)

Press "Start Restore Default Factory" button. (5)

After restoring default factory, the web system will redirect to restart device.

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[Backup](#)
Restore

Configure Restore

Configure Restore method (Select filename on local browser machine)

Filename:

Restore Factory Default

Reset

The following page provides options for resetting the device. Select whether you wish to reset the device and start executing the main (default) application, or whether you wish to reset the device and start executing the internal downloader application. Press "Reset" to reset the device

Home LAN SIP CODECS System Download Configuration **Reset** Logout

Reset

Reset

You must reboot to make your changes active.

Warning: Resetting the system will terminate all network connections and reset your browser connection.

Reset and execute Main Application

Reset and execute Downloader Application

Reset

IP0025 Manual

FUNCTION OF CONTROLS

MESSAGE

Press to link to voicemail server to retrieve voice messages

UP and DOWN arrows

Navigation keys

ENTER

Press to move to sub-menus

DELETE

1. Delete digits or characters under the circumstances of editing
 - a. Press to edit the number while initiating a call or a call conference or pre-dial
 - b. Press to edit the number when setting forwarding number
 - c. Press to edit data when add new contact information to phone book
 - d. Press to edit the phone number when programming speed dial
2. Press to delete contact information
 - a. Delete contact information from phone book
 - b. Delete contact information from received calls
 - c. Delete contact information from missed calls
 - d. Delete contact information from outgoing calls

STORE

Confirm settings

- a. Confirm forwarding phone number
- b. Add new phone number to phone book
- c. Store speed-dial memory
- d. Confirm ring melody
- e. Confirm phone settings

FORWARD

- a. Press to activate forwarding function to forward incoming call to an assigned telephone number
- b. Press to deactivate forwarding function if it is previously activated

SET

Press to enter sub-menus for phone settings

CLID

Press to enter received and missed calls selection page

MUTE

- a. Press to mute all microphones
- b. Press to resume conversation from mute

HOLD

- a. Press to put an active call on hold
- b. Press to resume conversation from hold

CONF

- a. Press to join a third party into a conference call
- b. Press to remove the last joined party from conference call

AUTO RD

On-hook, press to dial out the last dialed number 15 times automatically if phone line of second party is occupied

REDIAL/OUT

- a. On-hook, press to show last dialed number on the LCD
- b. Off-hook, press to dial last dialed number automatically

SPEAKER/HEADSET

- a. Press to activate speakerphone or headset
- b. Press to deactivate speakerphone or headset

VOLUME up and down

- a. On handset, press to adjust handset volume
- b. On speakerphone, press to adjust speaker volume
- c. On headset, press to adjust headset volume

TRANSFER

Press to transfer a call

OPERATION

Make a call

- a. Lift up the handset and then dial the number, speak through handset.
- b. Press **SPEAKER/HEADSET** (Headset plugged in and handset down) and then dial the number, speak through headset
- c. Press **SPEAKER/HEADSET** (Headset not plugged in) and then dial the number, speak through speakerphone.
- d. On-hook, dial the number, and then pick up the handset or press **SPEAKER/HEADSET** (Headset plugged in and handset down) or Press **SPEAKER/HEADSET** (Headset not plugged in)

Receive a call

- a. Lift up handset to conduct conversation through handset
- b. Press **SPEAKER/HEADSET** (Headset plugged in and handset down) to conduct conversation through headset.
- c. Press **SPEAKER/HEADSET** (Headset not plugged in) to conduct conversation through speakerphone

End a call

- a. On handset: place handset back on-hook
- b. Headset: press **SPEAKER/HEADSET** or lift up handset and put it back on cradle to terminate a conversation
- c. Speakerphone: press **SPEAKER/HEADSET button** or lift up handset and put it back on cradle to terminate a conversation

Call transfer

- a. During an active call, press **TRF** to place the current call on hold, call the third party to which the call is to be transferred, and then hang up the phone.
- b. During an active call, press **HOLD** to place the current call on hold, call the third party to which the call is to be transferred, press **TRF** once the call is connected and then hang up the phone

Conference

- a. During a call, either an incoming call or outgoing call, press **HOLD** or **CONF** to place the current call on hold, and then dial the number of third party that is to be joined into the conference, press **CONF** again once the call is connected to initiate a 3 way conference.
- b. Press **CONF** or hook switch anytime during a conference call to remove the last

joined party from the conference.

Call forwarding

- a. On-hook: press **FWD** and enter the telephone number to which the calls are to be forwarded, press **STORE (PROGRAM)** to confirm
- b. Press **FWD** to deactivate forwarding function if it is previously activated

Redial

- a. On-hook, press **REDIAL** to view the last dialed number, and then review other last 19 dialed numbers by using navigation keys; select a desired number and lift up the handset or press **SPEAKER/HEADSET** to dial out automatically.
- b. Off hook, press **REDIAL** to dial out the last dialed number automatically.

Switch Talk Mode from Handset to Speakerphone or Headset

On handset, press **SPEAKER/HEADSET** and speak through speakerphone or headset

Switch Talk Mode from Speakerphone or Headset to Handset

On speaker or headset, lift up handset and speak through handset

Pre-dial

On-hook, dial the phone number and then lift up the handset or press **SPEAKER/HEADSET** to dial out automatically.

CALLER ID

Caller ID review

On-hook, press **CLID** and the LCD displays **1.RECEIVED 2.MISSED**; select 1 or 2 by using navigation keys and press **ENTER** to access 1.received call page or 2.missed call page

- a. **Received:** Use navigation keys to view 100 most recent received calls in corresponding order, select a number and press **ENTER** to show the details of the call including name of calling party, phone number, call in date and time.
- b. **Missed:** Use navigation keys to view 100 most recent missed calls in corresponding order, select a number and press **ENTER** to show the details of the call including name of calling party, phone number, call in date and time.

Call back from caller ID

Select a number from received or missed calls, and then lift up the handset or press

SPEAKER/HEADSET to dial out automatically.

Delete caller ID

- a. **Delete one:** Select a number from received or missed calls, press **DELETE** to bring up sub-menu and select **DELETE ONE** by using navigation keys, press **DELETE** again to confirm
- b. **Delete all:** Press **DELETE** under received or missed call page to bring up sub-menu, select **DELETE ALL** by using navigation keys and press **DELETE** again to confirm

PHONE BOOK

On-hook, press **PHONE BOOK** and the LCD displays **1.ADD 2.SEARCH**; select 1 or 2 by using navigation keys and press **ENTER** to access 1.name input page or 2.view contact page

View phone book

- a. **SEARCH:** in view contact page, use navigation keys to browse between stored contact information
- b. **SEARCH:** in view contact page, enter the initial of the name to bring up a list of names with the same initial and then browse contact information by using navigation keys

Store contact information to phone book

- a. **ADD:** in name input page, key in the name and press **ENTER** to access number input page, key in number and then press **STORE (PROGRAM)** to confirm
- b. Select a number from received or missed calls or outgoing (redial) page, press **PHONE BOOK**, select **ADD** and press **ENTER** to access name input page, key in the name and press **ENTER** to access number input page, press **STORE (PROGRAM)** to confirm.
- c. Repeat the same approach to add more names and numbers to the phone book, if maximum capacity of 100 is reached, **MEMORY FULL** will display on LCD

Remove contact information from phone book

- a. **DELETE ONE:** select a number from view contact page, press **DELETE** to bring up sub-menu and select **DELETE ONE** by using navigation keys, press **DELETE** again to confirm
- b. **DELETE ALL:** press **DELETE** under view contact page to bring up sub-menu, select **DELETE ALL** by using navigation keys, press **DELETE** again to confirm

Edit contact information in phone book

Select a contact information to be edited in view contact page, press **DELETE** to bring up sub-menu and select **EDIT**, press **DELETE** to enter name input page and use **DELETE** button to edit name, press **ENTER** and then edit number in number input page, press **STORE** to confirm.

Call from phone book

On-hook, select a desired number in view contact page and lift up the handset or press **SPEAKER/HEADSET button** (headset plugged in) or press **SPEAKER/HEADSET button** (headset not plugged in) to dial out automatically

Auto-redial

On-hook, press **AUTO RD** to dial out the last dialed number repeatedly and activate speakerphone.

Program speed-dial key

Press **STORE (PROGRAM)** and key in telephone number that is to be set as speed-dial number, assign a memory location on the face plate and press it to confirm.

Speed dialing

- a. On-hook, press desired speed-dial button corresponding to the stored number and then lift up the handset or press **SPEAKER/HEADSET** to dial out automatically
- b. Off-hook, press desired speed-dial button corresponding to the stored number to dial out automatically

Volume adjustment

- a. On handset, press volume up and down button to adjust handset volume
- b. Speakerphone mode, press volume up and down button to adjust speakerphone volume
- c. Headset mode, press volume up and down button to adjust headset volume

Hold

Mute and resume conversation

When **MUTE** key is pressed, the transmitter microphone on the handset, speakerphone, and headset will be muted. All microphones will remain muted until the **MUTE** button is pressed again.

Message storage and retrieval

PHONE SETTING

Date Format

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Date and Time and press **ENTER**, select Date Format to access date format selection page, select desired date format and press **STORE** to confirm

- a. DD-MM
- b. MM-DD
- c. DD-MM-YY
- d. MM-DD-YY

Time Format

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Date and Time and press **ENTER**, select Time Format to access date format selection page, select desired time format and press **STORE** to confirm

- a. 12HR
- b. 24HR

Ringer Tone

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Ringer and press **ENTER**, select Ringer Tone to access Ringer Tone selection page, select from 1 to 8 by pressing number key and then press **STORE** to confirm

Ringer Volume

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Ringer and press **ENTER**, select Ringer Volume to access Ringer Volume adjustment page, adjust the volume by using volume adjusting keys and then press **STORE** to confirm.

Handset Volume

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Ringer and press **ENTER**, select HS Mic Gain to access Handset Volume adjustment page, adjust the volume by using volume adjusting keys and then press **STORE** to confirm.

Speaker Volume

On-hook, press **SET** to enter submenus, select Phone Set Up and press **ENTER**, select Ringer and press **ENTER**, select HF Mic Gain to access Speaker Volume

adjustment page, adjust the volume by using volume adjusting keys and then press **STORE** to confirm.

View IP address

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Host Config and press **ENTER**, select IP Config and press **ENTER** to access IP Address acquiring page, press **ENTER** again to show IP Address on the LCD

View MAC address

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Host Config and press **ENTER**, select MAC Address and press **ENTER** to access MAC Address acquiring page where MAC Address is shown on the LCD

View Net Mask address

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Host Config and press **ENTER**, select NetMask Config and press **ENTER** to access NetMask Address acquiring page, press **ENTER** again to show NetMask Address on the LCD

View Host name

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Host Config and press **ENTER**, select Host Name and press **ENTER** to access Host Name acquiring page where Host Name is shown on the LCD

View Domain name

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Host Config and press **ENTER**, select Domain Name and press **ENTER** to access Domain Name acquiring page where Domain Name is shown on the LCD

View Gate Way address

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select Router Cfg and press **ENTER**, select Gateway Addr and press **ENTER** to access Gateway Address acquiring page where Gateway address is shown on LCD

View DNS Server address

On-hook, press **SET** to enter submenus, select Network Cfg and press **ENTER**, select DNS Server and press **ENTER** to access DNS address acquiring page where DNS

Server address is shown on LCD

Call Manager

Password

Reboot