



Ultra-elegant Gigabit IP Phone SIP-T46G User Guide

Table of Contents

| | |
|--------------------------------------|------------|
| About This Guide | v |
| In This Guide | v |
| Table of Contents..... | vii |
| Overview | 1 |
| Hardware Component Instructions..... | 1 |
| Icon Instructions..... | 3 |
| LED Instructions..... | 5 |
| User Interfaces | 6 |
| Phone User Interface | 6 |
| Web User Interface..... | 6 |
| Documentations | 9 |
| Getting Started..... | 11 |
| Packaging Contents..... | 11 |
| Phone Installation..... | 13 |
| Phone Initialization..... | 16 |
| Phone Status | 16 |
| Basic Network Settings..... | 17 |
| Registration | 19 |
| Idle Screen..... | 20 |
| Customizing Your Phone | 21 |
| General Settings | 21 |
| Wallpaper | 21 |
| Backlight | 22 |
| Contrast..... | 23 |
| Language..... | 24 |
| Date & Time | 25 |
| Administrator Password | 27 |
| Key as Send..... | 28 |
| Keypad Lock..... | 28 |
| Audio Settings | 32 |
| Volume | 32 |

| | |
|--------------------------------------|------------|
| Ring Tones | 33 |
| Contact Management | 34 |
| Directory | 35 |
| Local Directory | 36 |
| Blacklist | 49 |
| Remote Phonebook | 50 |
| Call History Management | 53 |
| System Customizations | 54 |
| Headset Use | 54 |
| Bluetooth Headset | 56 |
| DSS Keys | 60 |
| Account Management | 70 |
| Dial Plan | 72 |
| Emergency Number | 75 |
| Live Dialpad | 75 |
| Hotline | 76 |
| Basic Call Features | 77 |
| Placing Calls | 77 |
| Answering Calls | 79 |
| Ending Calls | 81 |
| Redialing Numbers | 81 |
| Recent Call In Dialing | 81 |
| Auto Answer | 82 |
| Auto Redial | 83 |
| Call Completion | 85 |
| Call Return | 86 |
| Call Mute | 87 |
| Call Hold/Resume | 87 |
| Do Not Disturb (DND) | 88 |
| Call Forward | 91 |
| Call Transfer | 98 |
| Call Waiting | 99 |
| Conference | 100 |
| Local Conference | 100 |
| Network Conference | 101 |
| Call Park | 102 |
| Call Pickup | 103 |
| Anonymous Call | 107 |
| Anonymous Call Rejection | 108 |
| Advanced Phone Features | 111 |
| Busy Lamp Field (BLF) | 111 |

| | |
|--|------------|
| Call Recording | 114 |
| Hot Desking | 116 |
| Intercom | 118 |
| Outgoing Intercom Calls..... | 118 |
| Incoming Intercom Calls | 119 |
| Multicast Paging..... | 121 |
| Sending RTP Stream | 121 |
| Receiving RTP Stream..... | 122 |
| Music on Hold..... | 123 |
| Automatic Call Distribution (ACD)..... | 124 |
| Messages..... | 126 |
| Short Message Service (SMS) | 126 |
| Voice Mail | 128 |
| Message Waiting Indicator (MWI) | 130 |
| Troubleshooting | 133 |
| Regulatory Notices | 139 |
| Service Agreements | 139 |
| Limitations of Liability | 139 |
| Safety Instructions | 139 |
| Appendix A - Time Zones..... | 141 |
| Index..... | 143 |

Overview

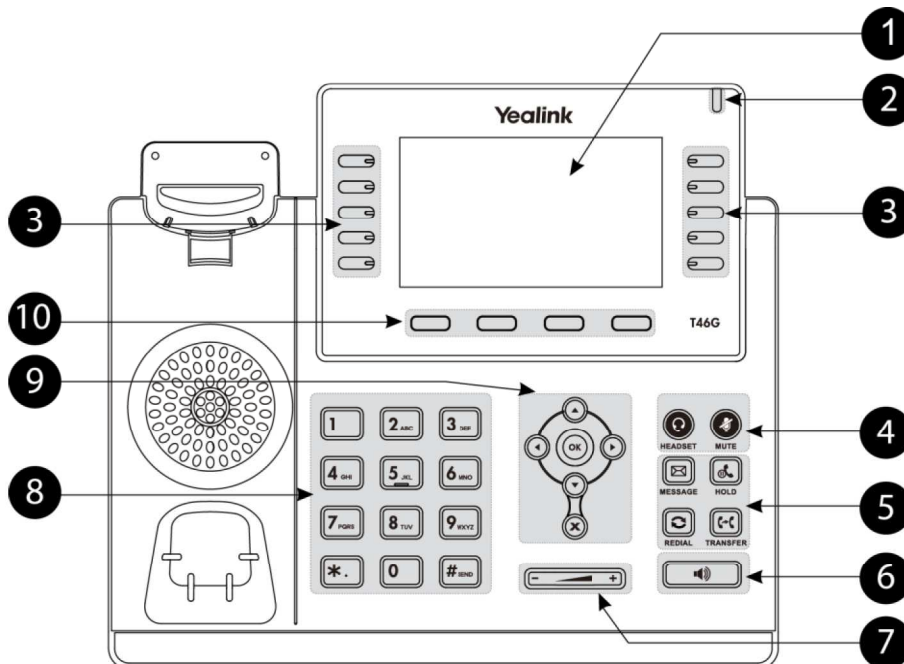
This chapter provides the overview of the SIP-T46G IP phone. The topics include:

- [Hardware Component Instructions](#)
- [Icon Instructions](#)
- [LED Instructions](#)
- [User Interfaces](#)
- [Documentations](#)








If you require additional information or assistance with your new phone, contact your system administrator.

Hardware Component Instructions

The main hardware components of the SIP-T46G IP phone are the LCD screen and the keypad.






































Hardware component instructions of the SIP-T46G IP phone are:

| | Item | Description |
|---|---|--|
| ① | LCD Screen | Shows information about calls, messages, soft keys, time, date and other relevant data: <ul style="list-style-type: none"> • Call information—caller ID, call duration • Icons (for example, ) • Missed call text or second incoming caller information • Prompt text (for example, "Saving...Please Waiting!") • Date and time |
| ② | Power Indicator LED | Indicates phone power and some feature statuses. |
| ③ | Line Keys | Use these keys to activate up to six accounts and assign various features. |
| ④ | HEADSET Key | Toggles and indicates the headset mode. |
| | MUTE Key | Toggles and indicates the mute feature on or off. |
| ⑤ | MESSAGE Key | Accesses voice messages. |
| | HOLD Key | Places a call on hold or resumes a held call. |
| | REDIAL Key | Redials a previously dialed number. |
| | TRANSFER Key | Transfers a call to another party. |
| ⑥ | Speakerphone Key | Toggles the hands-free speakerphone mode. |
| ⑦ | Volume Key | Adjusts the volume of the handset, headset, speaker, and ringer. |
| ⑧ | Keypad | Provides the digits, letters, and special characters in context-sensitive applications. |
| ⑨ |     | Scroll through the displayed information. |
| |  | Confirms actions or answers an incoming call. |
| |  | Cancels actions or rejects an incoming call. |
| ⑩ | Soft Keys | Label automatically to identify their context-sensitive features. |

Icon Instructions

Icons appear on the phone LCD screen are described in the following table:

| Icons | Description |
|---|--|
|  | Network is unavailable |
|  | Registered successfully |
|  | Registration failed |
|  | Registering |
|  | Hands-free speakerphone mode |
|  | Handset mode |
|  | Headset mode |
|  | Multi-lingual lowercase letters input mode |
|  | Multi-lingual uppercase letters input mode |
|  | Alphanumeric input mode |
|  | Numeric input mode |
|  | Voice Mail |
|  | Text Message |
|  | Auto Answer |
|  | Do Not Disturb |
|  | Call Forward |
|  | Call Hold |
|  | Call Mute |
|  | Ringer volume is 0 |

| Icons | Description |
|---|--|
|  | Keypad Lock |
|  | Received Calls |
|  | Dialed Calls |
|  | Missed Calls |
|  | Forwarded Calls |
|  | Recording box is full |
|  | A call cannot be recorded |
|  | Recording starts successfully |
|  | Recording cannot be started |
|  | Recording cannot be stopped |
|  | Open VPN |
|  | Bluetooth |
|  | Bluetooth headset is both paired and connected |
|  | Conference |
|  | The contact icon |
|  | The default contact photo |

LED Instructions

Power Indicator LED

| LED Status | Description |
|-------------------|---|
| Solid red | The phone is initializing. |
| Fast flashing red | The phone is ringing. The network is disconnected. |
| Slow flashing red | The phone receives a text message or voicemail. |
| Off | The phone is powered on. The phone is powered off. |

Line key LED

| LED Status | Description |
|---------------------|---|
| Solid green | The line is seized. The line is in conversation. |
| Fast flashing green | The line receives an incoming call. |
| Slow flashing green | The call is placed on hold. |
| Off | The line is inactive. |

Line key LED (configured as BLF key)

| LED Status | Description |
|-------------------|---|
| Solid red | The monitored user is busy. |
| Fast flashing red | The monitored user receives an incoming call. |
| Off | The monitored user is idle. The monitored user does not exist. |

Line key LED (used as page switch key)

| LED Status | Description |
|---------------------|---|
| Solid red | There is a parked call on the non-current page. |
| Fast flashing green | The line receives an incoming call on the non-current page. |
| Fast flashing red | The monitored user receives an incoming call on the non-current page. |
| Off | There is no status. |

User Interfaces

There are two ways to customize specific configurations on your SIP-T46G IP phone:

- Using the user interface on the IP phone.
- Using the user interface in an internet browser window from your PC.

The hardware components keypad and LCD screen constitute the phone user interface, which allows the user to execute all call operation tasks and basic configuration changes directly on the phone. In addition, you can use the web user interface to access all configuration settings. In many instances, it is possible to use both the phone user interface and the web user interface to operate the phone and change settings. However, in some instances, it is only possible to use the phone or the web user interface.

Phone User Interface

You can customize your phone by pressing the Menu soft key to access the phone user interface. The Advanced options are only accessible to an administrator, and the default administrator password is admin (case-sensitive). For more information on customizing your phone using the available options from the phone user interface, refer to [Customizing Your Phone](#) on page 21.

Web User Interface

In addition to the phone user interface, you can also customize your phone via web user interface. In order to access the web user interface, you need to know the IP address of your new phone. To obtain the IP address, press the OK key on the phone. Enter the IP address (e.g., http://192.168.0.10 or 192.168.0.10) in the address bar of web browser on your PC. The default administrator user name and password are both admin (case-sensitive).

The options you can use to customize the IP phone via phone user interface and/or via web user interface are listed in the following table:

| Options | Phone User Interface | Web User Interface |
|---------------|----------------------|--------------------|
| Status | | |
| --IPv4 | | |
| --MAC | | |
| --Firmware | √ | √ |
| --Network | | |
| --Phone | | |
| --Accounts | | |

| | | |
|--------------------------------|---|---|
| Basic Call Features | | |
| --Auto Answer | √ | |
| --Auto Redial | √ | |
| --Call Completion | √ | |
| --Call Forward | √ | |
| --Call Waiting | √ | |
| --Call Park | √ | |
| --Call Pickup | √ | |
| --Call Return | √ | |
| --Conference | | |
| --Hot Line | √ | |
| --Anonymous Call | √ | |
| --Anonymous Call Rejection | √ | |
| --DND | √ | |
| Basic Phone Settings | | |
| --Language | √ | √ |
| --Date & Time | √ | √ |
| --Administrator Password | √ | √ |
| --Ring Tones | √ | √ |
| --Contrast | √ | |
| --Wallpaper | √ | √ |
| --Backlight | √ | √ |
| --Keypad Lock | √ | √ |
| --Phone Volume | √ | |
| --Call History Management | √ | |
| --Contact Management | | √ |
| --Directory | | √ |
| --Local Directory | √ | √ |
| --Blacklist | √ | √ |
| --Remote Phonebook | | √ |
| --Dial Plan | | √ |
| --DSS Keys | √ | √ |
| --Key as Send | √ | √ |
| --Live Dialpad | | √ |
| --Emergency | | √ |
| Advanced Phone Features | | |
| --BLF | √ | |
| --Call Recording | √ | |
| --Hot Desking | √ | |
| --Intercom | √ | |
| --Multicast Paging | | |
| --Music on Hold | | |

| | | |
|--------------------|---|---|
| --ACD | √ | √ |
| --Messages | √ | |
| SIP Account | | |
| --User Options | | |
| --Register Status | √ | |
| --Account Active | √ | |
| --Label | √ | |
| --Display Name | √ | |
| --Register Name | √ | |
| --User Name | √ | |
| --Password | √ | |
| --Server Host | √ | |
| --Server Option | | |
| --Registrar Port | | |
| --Outbound Status | √ | |
| --Outbound Proxy | √ | |
| --NAT Traversal | | |
| --STUN Status | √ | |
| --STUN Server | √ | |

Note

The table above lists most of the feature options. Please refer to the relevant sections for more information.

Documentations

The following table shows documentations available for the SIP-T46G IP phone.

| Name | Contents | Where found | Format/ Language |
|--------------------------|--|----------------------------|------------------|
| Quick Installation Guide | Basic set up of the phone | In the package | PDF/English |
| Quick Reference Guide | Basic call features and phone customizations | In the package | PDF/English |
| User Guide | Phone/Web user interface settings Basic call features and advanced phone features | CD attached in the package | PDF/English |

Getting Started

This chapter provides basic installation instructions and information for obtaining the best performance with the SIP-T46G IP phone. The topics include:

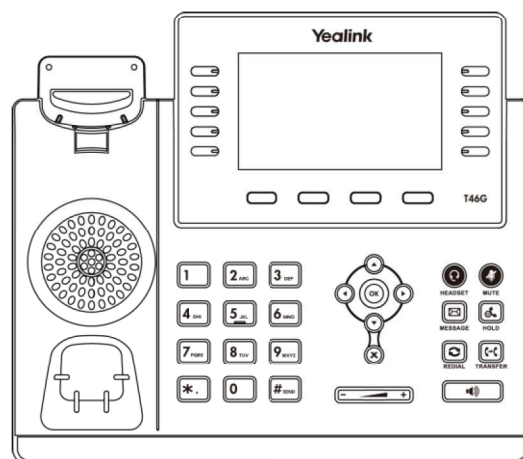
- [Packaging Contents](#)
- [Phone Installation](#)
- [Phone Initialization](#)
- [Phone Status](#)
- [Basic Network Settings](#)
- [Registration](#)
- [Idle Screen](#)

If you require additional information or assistance with your new phone, contact your system administrator.

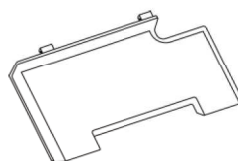
Packaging Contents

The following components are included in your SIP-T46G IP phone package:

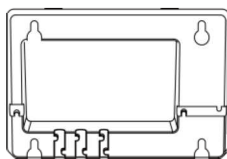
- SIP-T46G IP Phone



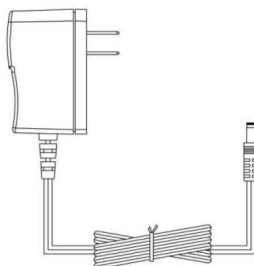
- Phone Stand



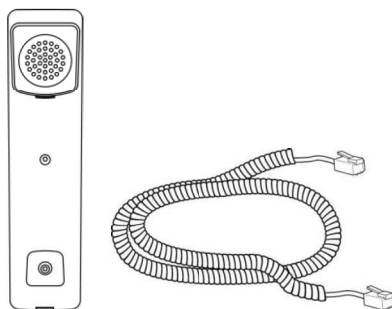
- **Wall Mount Bracket (Optional)**



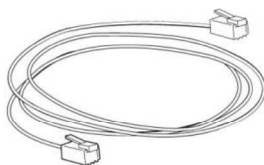
- **Power Adapter (Optional)**



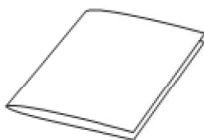
- **Handset & Handset Cord**



- **Ethernet Cable**



- **Quick Installation Guide & Quick Reference Guide**



- CD-ROM



Check the list before installation. If you find anything missing, contact your system administrator.

Phone Installation

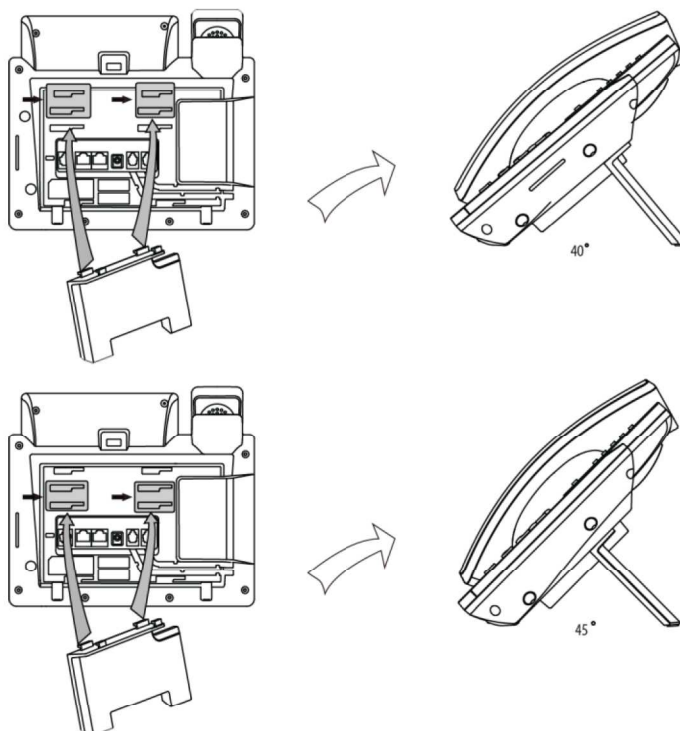
If your phone is already installed, proceed to [Phone Initialization](#) on page 16.

This section introduces how to install the phone with the components in the packaging contents:

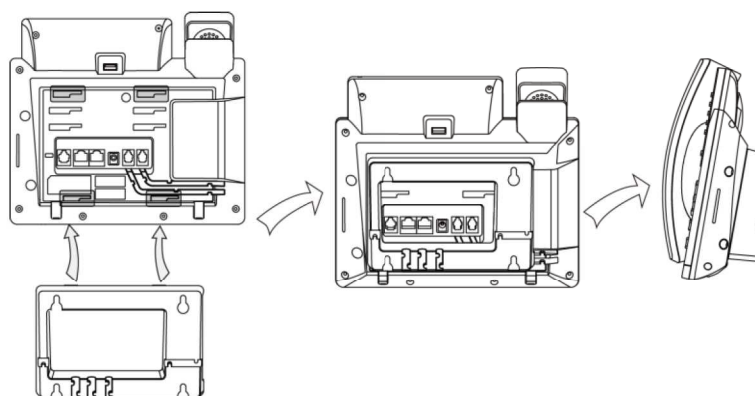
- Attach the stand or the optional wall mount bracket
- Connect the handset and optional headset
- Connect the network and power

1) Attach the stand or the optional wall mount bracket

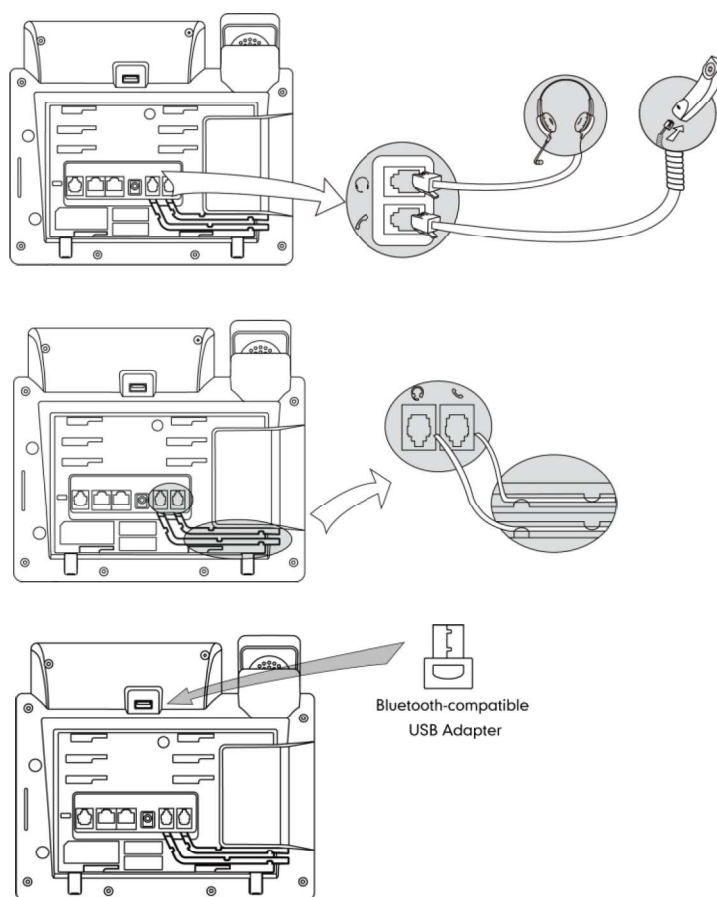
Desk Mount Method



Wall Mount Method (Optional)



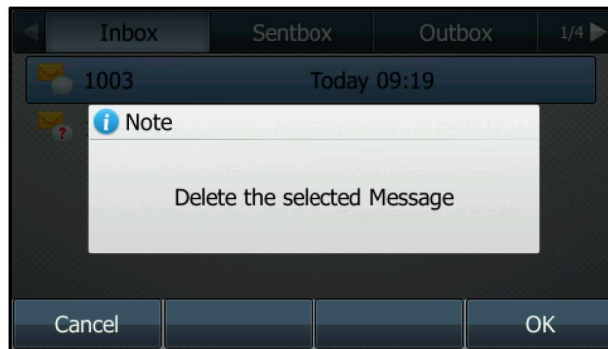
2) Connect the handset and optional headset



Note

The headset and Bluetooth adapter are not provided in the packaging contents. The SIP-T46G IP phone also supports Bluetooth headsets. For more information, refer to [Bluetooth Headset](#) on page 56 or contact your system administrator.

The LCD screen prompts "Delete the selected Message".



4. Press the **OK** soft key to delete this message or the **Cancel** soft key to cancel.

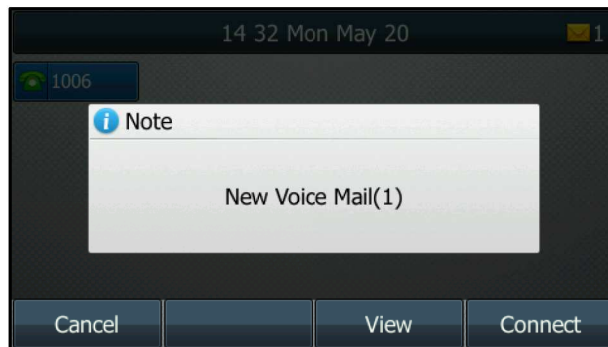
Note

You can also delete all text messages by pressing the **Option** soft key and then select **Delete All**. For more information, refer to the above steps.

You can also delete a specific message after retrieving by pressing the **Delete** soft key.

Voice Mail

You can leave voice mails for someone else on the SIP-T46G IP phone. You can also listen to the voice mails stored in a centralized location. When receiving a new voice mail, the phone will play a warning tone, the power indicator LED will slow flash red and the phone LCD screen will prompt receiving a new voice mail and an icon.



Note

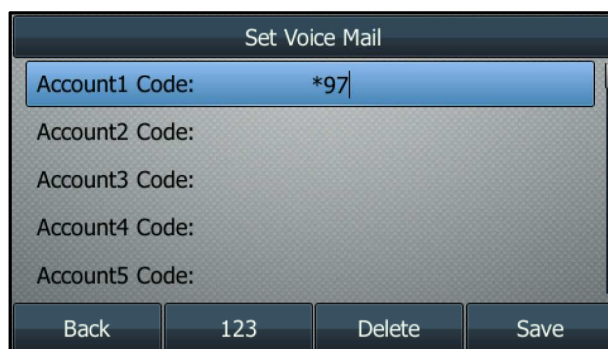
Voice Mail feature is not available on all servers, contact your system administrator for more information.

To leave a voice mail:

You can leave a voice mail for someone else when he/she is busy or inconvenient to answer the call. Follow the voice prompt from the system server to leave the voice mail, and then hang up after completing the voice mail.

To configure voice mail access codes via phone user interface:

1. Press **Menu->Message->Voice Mail->Set Voice Mail**.
2. Press the navigation keys to highlight the account which you want to set.
3. Press the **123** soft key to select the proper input mode and then enter the voice mail access code (e.g., *97).




4. Press the **Save** soft key to accept the change or the **Back** soft key to cancel.

Note

Voice mail access code must be predefined on the system server. Contact your system administrator for the more information.

To listen to the voice mails:

1. When the phone user interface prompts receiving new voice mails and the power indicator LED slow flashes red, press  or the **Connect** soft key to dial out the access voice mail code.
2. Follow the voice prompt to listen to the voice mails.

Note

Before listening to the voice mails, make sure the voice mail access code has been configured.

When all new voice mails are retrieved, the power indicator LED will stop flashing.

To view the voice mail via phone user interface:

1. Press **Menu->Message->Voice Mail->View Voice Mail**.

The phone LCD screen displays the amount of the voice mails that includes new or old voice mails.



2. Select an account and then press the **Connect** soft key to listen to the voice mails.

Message Waiting Indicator (MWI)

The SIP-T46G IP phone supports MWI feature when receiving a new voice message. If someone leaves you a voicemail, you will receive a message waiting indicator. MWI will be indicated in three ways: a warning tone, the power indicator LED illuminates slow flashing red and an indicator message (including a voice mail icon) appears on the LCD screen. This is cleared only when you retrieve all voicemails or delete them.

For some particular servers, the MWI service is unsolicited. So the SIP-T46G IP phone just need to handle the MWI messages sent from the server. But for some servers, the MWI service is solicited. In this case, the SIP-T46G IP phone must enable the MWI Subscription for MWI messages.

Note

MWI service is not available on all servers. Contact your system administrator for more information.

The MWI Subscription parameters you need to know:

| Options | Description |
|--------------------------------|---|
| Subscribe for MWI | Enable or disable a subscription for MWI service. |
| MWI Subscription Period | Period of MWI subscription. The IP phone re-sends a SUBSCRIBE request before initial SUBSCRIBE expiration. |
| Subscribe MWI to VM | Enable or disable a subscription to the voice mail number for MWI service. To use this feature, you should also configure the voice mail number. |

Note

Whether the phone subscribes the MWI messages to the account or the voice number MWI service depends on the server. Contact your system administrator for more information.

To enable MWI subscription via web user interface:

1. Click on **Account**.
2. Select the desired account from the pull-down list of **Account**.
3. Click on **Advanced**.
4. Select **Enabled** from the pull-down list of **Subscribe for MWI**.
5. Enter the period time in the **MWI Subscription Period (Seconds)** field.
6. Click **Confirm** to accept the change.

The IP phone will subscribe to the account number for MWI service by default.

To enable the Subscribe MWI to VM feature via web user interface:

1. Click on **Account**.
2. Select the desired account from the pull-down list of **Account**.
3. Click on **Advanced**.
4. Select **Enabled** from the pull-down list of **Subscribe MWI To Voice Mail**.
5. Enter the desired voice number in the **Voice Mail** field.
6. Click **Confirm** to accept the change.

The IP phone will subscribe to the voice mail number for MWI service using Subscribe MWI to WM feature.

Troubleshooting

This chapter provides general troubleshooting information to help you solve the problems you might encounter when using your SIP-T46G IP phone.

If you require additional information or assistance with your new phone, contact your system administrator.

Why is the phone LCD screen blank?

- Ensure that the phone is properly plugged into a functional AC outlet.
- Ensure that the phone isn't plugged into a plug controlled by a switch that is off.
- If the phone is plugged into a power strip, try plugging it directly into a wall outlet instead.
- If the phone is powered from PoE, ensure you use a PoE compliant switch or hub, or contact your system administrator for more information.

Why does the phone display "Cable Disconnected"?

- Ensure that the Ethernet cable is plugged into the Internet port on the phone and the Ethernet cable is not loose.
- Ensure that the switch or hub in your network is operational.

Why does the phone not display time and date correctly?

Check if you have configured your phone to obtain the time and date from the SNTP server automatically. If your phone is unable to access the SNTP server, configure the time and date manually.

How do I find the basic information of the IP phone?

Press the OK key when the IP phone is idle to check the basic information of the IP phone, such as IP address and firmware version. For more the basic information, refer to [Phone Status](#) on page 16.

How to obtain the MAC address of a phone when the phone is not powered on?

There are three ways to obtain the MAC address of a phone:

- You can ask your supplier for shipping information sheet which includes MAC addresses according to the corresponding PO.
- You can find the MAC address in the label of carton box.
- You can also find the MAC address from the phone's bar code at the back of the phone.

Why can't I get a dial tone?

Check for any loose connections and that the phone has been installed properly. For the installation instructions, refer to [Phone Installation](#) on page 13.

Check whether dial tone is present on one of the audio modes.

- Switch between the Handset, Headset (if present) or Hands-Free Speakerphone to check whether dial tone is present for one of the audio modes.
- If the dial tone exists on another audio mode, connect a different handset or headset to isolate the problem.

Why doesn't the phone ring?

Check the ringer volume on your phone. To adjust the ringer volume setting, press the Volume key when the phone is on-hook and idle. For more information, refer to [Volume](#) on page 32.

Why can't I receive calls?

- Check the SIP registration with your system administrator.
- Check that DND (Do Not Disturb) mode is turned off on your phone. Refer to [Do Not Disturb \(DND\)](#) on page 88.
- Check that call forward feature is disabled on the phone. Refer to [Call Forward](#) on page 91.
- Check whether the caller number is stored in the blacklist directory. Refer to [Blacklist](#) on page 49.

Why is my handset not working?

Check that the handset cord is fully connected to both the handset jack on the phone and handset. Refer to [Phone Installation](#) on page 13.

Why is my headset not working?

- Check that the headset cord is fully connected to the headset jack on the phone. Refer to [Phone Installation](#) on page 13.
- Check that the headset mode is activated. Refer to [Headset Use](#) on page 54.
- Check that the headset volume is adjusted to an appropriate level. Refer to [Volume](#) on page 32.

What is the difference between user name, register name and display name?

Both user name and register name are defined by the server. A user name is used to identify the account while a register name matched with a password is used for authentication if the server requires. Display name is the caller ID that will be displayed on the callee's phone LCD screen. Some server configuration may override the local

configuration.

Why does the phone play a tone when hold? How to disable it?

When the phone is hold, it will play a hold tone every 30 seconds to prompt that the phone is being hold status. The call hold tone feature is enabled by default. You can disable it or change the interval to play a hold tone via web user interface only.

To configure the call hold tone and call hold tone delay via web user interface:

1. Click on **Features->General Information**.
2. Select the **Enabled** or **Disabled** from the pull-down list of **Play Hold Tone**.
3. Enter the desired time in the **Play Hold Tone Delay** field.
4. Click **Confirm** to accept the change.

Why does the wallpaper has bad displayed?

Do one of the following:

- Check the custom image is clear.
- Check the file format of the custom image for the wallpaper is .jpg, .png or .bmp.
- Check the custom image is not too large or small. The phone will adjust the image with the short side to display.
- Check the picture resolution of the wallpaper. The wallpaper resolution of T46G IP phone is 480*272 pixels.

Why I can't send a SMS to any other phone?

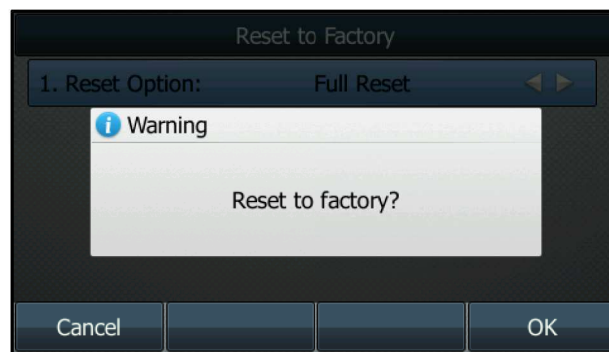
The SMS feature depends on support from a SIP server. Contact your system administrator for more information.

How to change the user password?

To change the user password via web user interface:

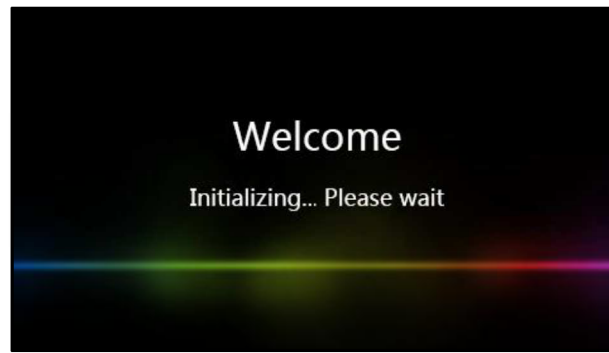
1. Click on **Security->Password**.
2. Select **user** from the pull-down list of **User Type**.
3. Enter the new user password in the **New Password** field and **Confirm Password** field.
4. Click **Confirm** to accept the change.

The LCD screen prompts the following message:



4. Press the **OK** soft key.

The phone LCD screen prompts "Welcom Initializing...Please wait".



The phone will be reset to factory successfully after startup.

Note

Reset of the phone may take a few minutes. Do not power off until the phone starts up successfully.

How to Export PCAP Trace?

We may need you to provide a PCAP trace to help analyze your problem.

To export a PCAP trace via web user interface:

1. Click on **Settings->Upgrade**.
2. Click **Start** to start the SIP trace capture.
3. Recreate the error to be documented in the trace.
4. Click **Stop** to stop the capture.
5. Click **Export** to save the file to your local system.

How to Export System Log?

We may need you to provide debug log information to help analyze your problem. By default, you can export the debug system log information to local PC.

To export the system log to local PC via web user interface:

1. Click on **Settings->Configuration**.
2. Select **6** from the pull-down list of **System Log Level**.
The default system log level is 3.
3. Click **Confirm** to accept the change.
The web user interface prompts "Do you want to restart your machine?". The configuration will take effect after reboot.
4. Click **OK** to reboot the phone.
The system log level is set as 6, the debug level.
5. Mark the **Local** radio box in the **Export System Log** field.
6. Click **Export** to download and save the system log file to your local PC system.

You can also export the system log to a Syslog Server, contact your system administrator for more information.

How to Export/Import the phone configurations?

We may need you to provide your phone configurations to help analyze your problem. In some instance, you may need to import configurations to your phone.

To export the phone configurations via web user interface:

1. Click on **Settings->Configuration**.
2. Click **Export** to save the configuration file to your local system.

To import the phone configurations via web user interface:

1. Click on **Settings->Configuration**.
2. Click **Browse** to select a configuration file from your local system.
3. Click **Import** to import the configuration file.

Note

The file format of configuration file must be ".bin".

How to upgrade firmware?

To upgrade firmware via web user interface:

1. Click on **Settings->Upgrade**.
2. Click **Browse** to select the firmware from your local system.
3. Click **Upgrade** to upgrade the firmware.
4. The browser pops up the dialog box "Firmware of the SIP Phone will be updated. It will take 5 minutes to complete. Please don't power off!".
5. Click **OK** to confirm upgrading.

Appendix A - Time Zones

| Time Zone | Time Zone Name |
|-----------|----------------------------------|
| -11:00 | Samoa |
| -10:00 | United States-Hawaii |
| -09:00 | United States-Alaska |
| -08:00 | Canada(Vancouver, Whitehorse) |
| -08:00 | Mexico(Tijuana, Mexicali) |
| -08:00 | United States-Pacific |
| -07:00 | Canada(Edmonton, Calgary) |
| -07:00 | Mexico(Mazatlan, Chihuahua) |
| -07:00 | United States-Mountain |
| -07:00 | United States-MST |
| -06:00 | Canada-Manitoba(Winnipeg) |
| -06:00 | Chile(Easter Islands) |
| -06:00 | Mexico(Mexico City, Acapulco) |
| -06:00 | United States-Central |
| -05:00 | Bahamas(Nassau) |
| -05:00 | Canada(Montreal, Ottawa, Quebec) |
| -05:00 | Cuba(Havana) |
| -05:00 | United States-Eastern |
| -04:30 | Venezuela(Caracas) |
| -04:00 | Canada(Halifax, Saint John) |
| -04:00 | Chile(Santiago) |
| -04:00 | Paraguay(Asuncion) |
| -04:00 | United Kingdom-Bermuda(Bermuda) |
| -04:00 | United Kingdom(Falkland Islands) |
| -04:00 | Trinidad and Tobago |
| -03:30 | Canada- New Foundland(St.Johns) |
| -03:00 | Denmark-Greenland(Nuuk) |
| -03:00 | Argentina(Buenos Aires) |
| -03:00 | Buenos Aires |
| -03:00 | Brazil(Brasilia) |
| -02:00 | Middle Atlantic |
| -01:00 | Portugal(Azores) |
| 0 | GMT |
| 0 | Greenland |
| 0 | Denmark-Faroe Islands |
| 0 | Ireland(Dublin) |
| 0 | Portugal(Lisboa, Porto, Funchal) |
| 0 | Spain-Canary Islands(Las Palmas) |
| 0 | United Kingdom(London) |
| 0 | Morocco |
| +01:00 | Albania(Tirane) |
| +01:00 | Austria(Vienna) |
| +01:00 | Belgium(Brussels) |
| +01:00 | Caicos |
| +01:00 | Croatia(Zagreb) |
| +01:00 | Czech Republic(Prague) |
| +01:00 | Denmark(Kopenhagen) |
| +01:00 | France(Nice) |
| +01:00 | Germany(Berlin) |
| +01:00 | Hungary(Budapest) |
| +01:00 | Italy(Rome) |

| Time Zone | Time Zone Name |
|-----------|--|
| +01:00 | Luxembourg(Luxembourg) |
| +01:00 | Makedonia(Skopje) |
| +01:00 | Netherlands(Amsterdam) |
| +01:00 | Namibia(Windhoek) |
| +02:00 | Estonia(Tallinn) |
| +02:00 | Finland(Helsinki) |
| +02:00 | Gaza Strip(Gaza) |
| +02:00 | Greece(Athens) |
| +02:00 | Israel(Tel Aviv) |
| +02:00 | Jordan(Amman) |
| +02:00 | Latvia(Riga) |
| +02:00 | Lebanon(Beirut) |
| +02:00 | Moldova(Kishinev) |
| +02:00 | Russia(Kaliningrad) |
| +02:00 | Romania(Bucharest) |
| +02:00 | Syria(Damascus) |
| +02:00 | Turkey(Ankara) |
| +02:00 | Ukraine(Kyiv, Odessa) |
| +03:00 | East Africa |
| +03:00 | Iraq(Baghdad) |
| +03:00 | Russia(Moscow) |
| +03:30 | Iran(Teheran) |
| +04:00 | Armenia(Yerevan) |
| +04:00 | Azerbaijan(Baku) |
| +04:00 | Georgia(Tbilisi) |
| +04:00 | Kazakhstan(Aqtau) |
| +04:00 | Russia(Samara) |
| +04:00 | United Arab Emirates(Dubai) |
| +04:30 | Kabul(Afghanistan) |
| +05:00 | Kazakhstan(Aqtobe) |
| +05:00 | Kyrgyzstan(Bishkek) |
| +05:00 | Pakistan(Islamabad) |
| +05:00 | Russia(Chelyabinsk) |
| +05:30 | India(Calcutta) |
| +06:00 | Kazakhstan(Astana, Almaty) |
| +06:00 | Russia(Novosibirsk, Omsk) |
| +07:00 | Russia(Krasnoyarsk) |
| +07:00 | Thailand(Bangkok) |
| +08:00 | China(Beijing) |
| +08:00 | Singapore(Singapore) |
| +08:00 | Australia(Perth) |
| +09:00 | Korea(Seoul) |
| +09:00 | Japan(Tokyo) |
| +09:30 | Australia(Adelaide) |
| +09:30 | Australia(Darwin) |
| +10:00 | Australia(Sydney, Melbourne, Canberra) |
| +10:00 | Australia(Brisbane) |
| +10:00 | Australia(Hobart) |
| +10:00 | Russia(Vladivostok) |
| +10:30 | Australia(Lord Howe Islands) |
| +11:00 | New Caledonia(Noumea) |
| +12:00 | New Zealand(Wellington, Auckland) |
| +12:45 | New Zealand(Chatham Islands) |
| +13:00 | Tonga(Nukualofa) |

Auto Redial 83
Automatic Call Distribution 124

B

Backlight 22
Basic Network Settings 17
Blacklist 49
Block Out 74
Bluetooth 56
Busy Lamp Field (BLF) 111

C

Call Completion 85
Call Forward 91
Call Mute 87
Call History Management 53
Call Hold/Resume 87
Call Park 102
Call Pickup 103
Call Recording 114
Call Return 86
Call Transfer 98
Call Waiting 99
CE Mark Warning vi
Conference 100
Contact Management 34
Contrast 23
Copyright v
Customizing Your Phone 21

D

Declaration of Conformity vi
Deleting Contacts 42
Dial-now 73
Dial Plan 72
Do Not Disturb (DND) 88
Documentation 9
DSS Keys 55

Hardware Component Instructions 1

Headset Mode Activation/Deactivation 54

Hotline 76
Hot Desking 116

I

Icon Instructions 3
Idle screen 20
Importing/Exporting Contact lists 46
In This Guide v
Incoming intercom call features 119
Intercom 116

K

Key as Send 28
Keypad Lock 28

L

Language 24
LED Instructions 5
Limitation of Liability 139
Line Keys 69
Live Dialpad 75
Local Conference 100
Local Directory 36

M

Message Waiting Indicator 130
Messages 126
Multicast Paging 121
Multiple Line Keys per Account 71
Music on Hold 123

N

Network Conference 101
Network Connection 13

P

Packaging Contents 11

