

SkyTrunk ST-4004

User Manual

V1.0.2



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1. Introduction

Nowadays Skype™ has been a popular IM for voice/chat application and has been a big community worldwide. However, Skype scares enterprises for its strict security. In order to prevent employee sending out confidential information easily, many companies prohibit Skype usage in office. With the increasing Skype user base and benefits of phone bill reduction, many companies are eager to have the Skype voice application, but are still worry about security issues. ST-4004, a four port Skype gateway, can help enterprise solve the dilemma.

By connecting ST-4004 with company's existing PBX, employees can make/receive Skype calls through their extension phones. In addition to 4 FXS ports support for Skype, there are 4 FXO ports in ST-4004 for employees to have the PSTN line when the corresponding port is not occupied by a Skype call. Employees don't need to install Skype in personal PC to increase MIS's burdens and security concerns. With ST-4004 installed, different location offices can have a free communication via this platform. Through Skype's click to call function, 0800 service call can be replaced by the free Skype web call. Enterprise can benefit cheaper communication fee and even better communication platform for B2B or B2C through ST-4004.

Furthermore, ST-4004 provides a very simple way to contact colleagues via its Cheese button function. Usually you call colleague's office extension number first and then call his/her mobile number if he/she is reachable. With Cheese button function, you call colleague's extension number with a prefix "*" key and press "#" key all the way until you find the colleague. You don't need to memorize any phone numbers. User presets a contact table with contact's reachable phone numbers and enjoys the convenience of Cheese button function. ST-4004 supports two kinds of phone books, public phone book and private phone book. MIS maintains the public phone book and employees take care of own private phone book through web updates without MIS's help.

In addition, ST-4004 has flexible Skype call log management and statistics. MIS can manage ST-4004 remotely. ST-4004 will send out Skype or SMS alert to MIS if any failure happens.

Thanks for choosing this innovative and user friendly ST-4004 product.

1.1 Package Contents

- One ST-4004 device
- One type B USB cable(Male A, Male B)
- Four telephone cables(RJ-11)
- One installation CD
- One user manual
- One DC power adapter(5V/3Amp)

1.2 Product Specification

- One USB port (Type B receptacle connector) for PC USB port
- Dip switch for devices cascading up to 16 FXS & FXO ports
- One Reset button to reset ST-4004 hardware and firmware
- 4 FXS ports for connecting to PBX's CO ports
- 4 FXO ports for landlines from CO
- Skype V 3.6.0.216 and 3.8(User needs to allow Skype to be accessed manually. Please check FAQ1.)
- LED: On/Off, blinking per FXO & FXS port connection & status
- Power: DC 5V power adapter with maximum 3Amp current rating

1.3 Main Features

- Most suitable for free company intranet voice communication, 0800 service call, B2C/ B2B voice communication
- Make Skype/Landline calls through existing office extension phones, no need of microphones, speakers and Skype for every employee's PC
- Support four independent Skype calls concurrently
- Support 4 FXS ports for Skype application and 4 FXO ports for landline when the corresponding FXS or FXO port is not busy
- Support gateway devices cascading up to 16 FXS/FXO ports in one PC
- Support international busy tone
- One unique corporate Skype account/SkypeIn™ number for four Skype lines
- Support Speed Dial(up to 20 digits) or SkypeOut™ calls directly through the office extension phone keypad dialing
- Receive a landline or a Skype call in the way as you do with your office extension phones

- Cheese Button: If Skype quality is not good or the contact doesn't answer your call ...Just press “#” key through phone keypad to switch to a presetting SkypeOut or landline call (Patent Pending)
- “Just remember extension numbers for contacts”: Need to find your colleague? All you need to remember now is his/her extension number. Ex. Dial “0*” + extension “168” no matter he/she is in office or not. If the connection is bad or no answer, then press a single “#” key(Cheese Button) before hanging up phone to dial his/her preset alternative connections (Home, remote office, SkypeOut,...,etc.) without dialing or memorizing lengthy phone numbers
- Simple web management
- Easy of use and user friendly interface
- Support CDR (Call Detail Record) for view and back up
- Support public and private phonebook
- Allow every user to export personal Skype contacts into the private phonebook via web interface (IE, Internet Explorer)
- Low SkypeOut credit alert with notification via SMS for MIS
- Advanced operation administration messages like HW/SW error, Skype/SkypeOut status & call connection status
- Support popular PBXs

1.4 Minimum System Requirements

- One computer running at 2.8 GHz or quicker, 1024 MB RAM with a USB port and a CD-ROM drive
- Microsoft Windows XP (Service Pack 2)
- 100MB Free Hard Disk Space at least
- Skype Version 3.6.0.216 or 3.8
- 128 kbps upstream and downstream Internet connection (ADSL, Cable Modem...)
- Four available PBX trunking ports.

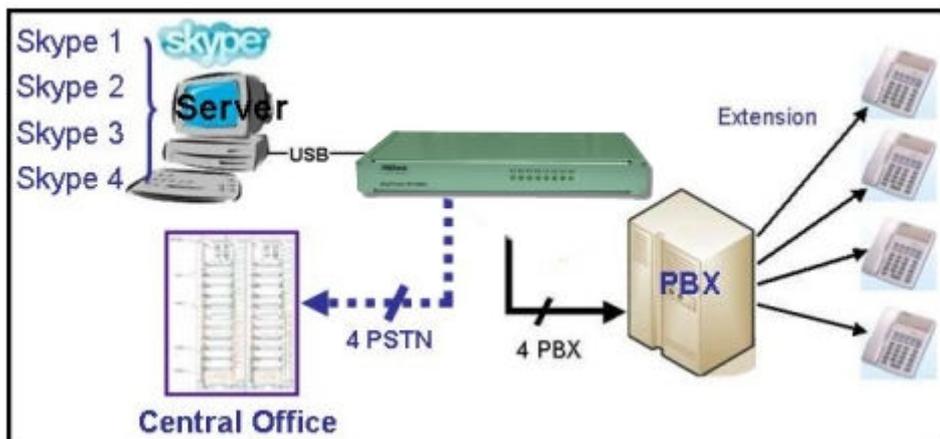
2. ST-4004 Application and Installation Procedure Diagram

This section will guide user how to use ST-4004 and illustrate installation procedures.

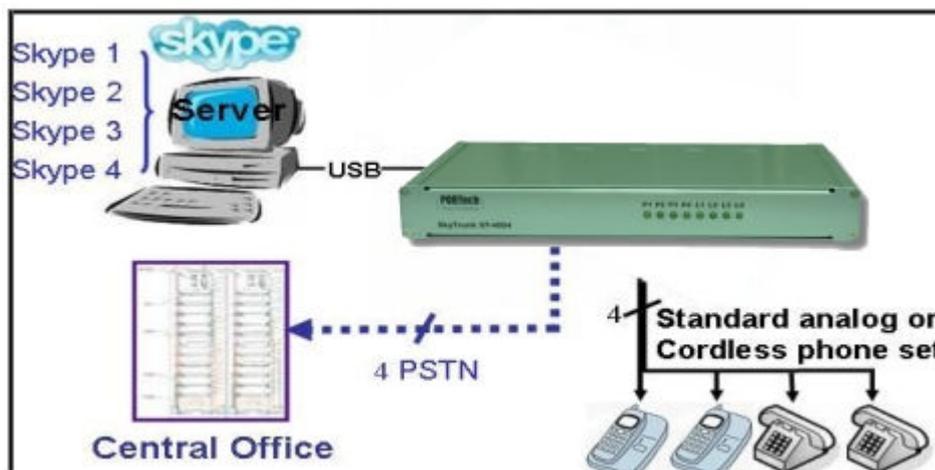
2.1 ST-4004 Application

ST-4004 can integrate with enterprise PBX system as application A. Or ST-4004 can be a SOHO IP-PBX as application B.

【Application A】 Connect ST-4004 with PBX: User can connect 4 FXS ports of ST-4004 to PBX trunk ports and connect 4 landlines with ST-4004 4 FXO ports.



【Application B】 As a simple IP-PBX: Connect 4 FXS ports of ST-4004 with 4 analog phones or cordless phones and 4 FXO ports with landlines.



2.2 Before Proceed

Before user starts to install ST-4004 software, please pay attention to following factors:

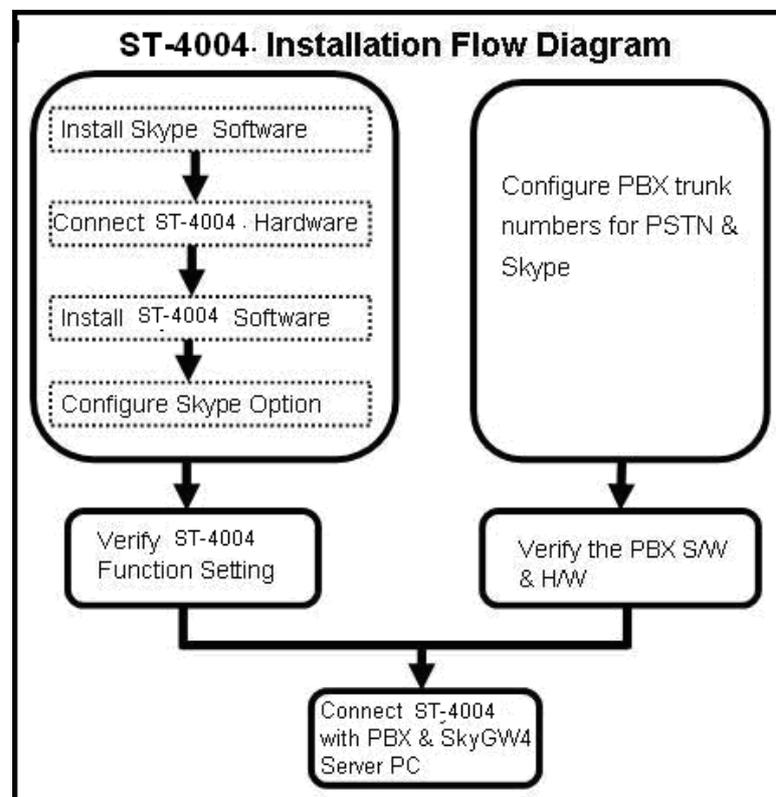
1. Make sure to install ST-4004 under Windows XP with Service Pack 2.
2. Make sure ST-4004 server PC is installed with appropriate Skype version 3.6.0.216 or 3.8.
3. Make sure ST-4004 server PC has a dedicated broadband (at least 128 kbps upstream and downstream) to ensure voice quality.

Note : 1. For later content in the user manual, we name the PC installed with ST-4004 as ST-4004 server PC.

2. We suggest there are less application programs installed on the ST-4004 server PC except applications like Anti-virus and Skype to ensure ST-4004 working well.

2.3 ST-4004 Installation Procedure Diagram

Below is ST-4004 installation flow diagram.



3. Install Skype Software

Before installing ST-4004 hardware or software, user should install Skype software on ST-4004 server PC first. User needs to install Skype V3.6.0.216 or 3.8. If Skype is installed, user can skip this section and move to chapter 4 ST-4004 Hardware Setup in this manual. If not, please download appropriate Skype version as mentioned earlier from www.Skype.com. **Before getting updated ST-4004 software for a new Skype version, we strongly recommend you not to upgrade Skype version to prevent possible troubles.**

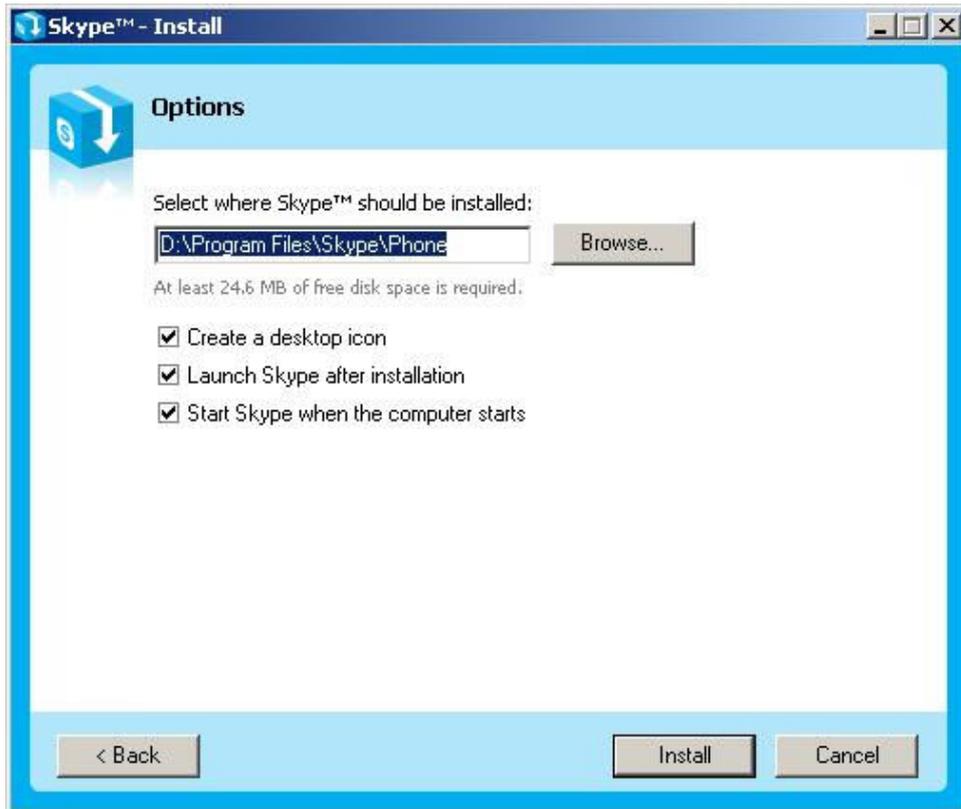
To install Skype software:

1. Get Skype from Skype web site [Http://www.skype.com](http://www.skype.com) . Run Skype Setup program.
2. There appears a Skype welcome window as below. Follow blue circles 1~3 to select a language by scrolling the bar, accept **Skype End User License Agreement** and click **Install**.





3. If user chooses **Options** button in the previous step, an **Options** window will pop up and user can choose preferred installation folder by **Browse**. User can choose to check boxes for **Create a desktop icon**, **Launch Skype after installation**, or **Start Skype when the computer starts**. Then click **Install**. If user doesn't click Options for configuration, the default setting will enable these three settings.



Note: User can always click Back to go back to the previous step.

4. The **Free! Google Toolbar for Internet Explorer** screen will pop out. User can choose to check boxes for **Install the free Google Toolbar**. Then click **Next** to Install or choose **Cancel**.



5. After installation, Skype will ask for Create a new Skype Account. Then click **Next**.

Skype™ - Create Account

Create a new Skype Account

Full Name

* Choose Skype Name
Between 6 and 32 characters

* Password
Minimum 4 characters

* Repeat Password

* Yes, I have read and accept the [Skype End User License Agreement](#) and I have read the [Skype Privacy Statement](#)

* Fields marked with an asterisk are required

6. User can provide e-mail address and country information and then click **Sign In**.

Skype™ - Create Account

Create a new Skype Account

E-mail
E-mail is optional, but it is the only way to retrieve your password.

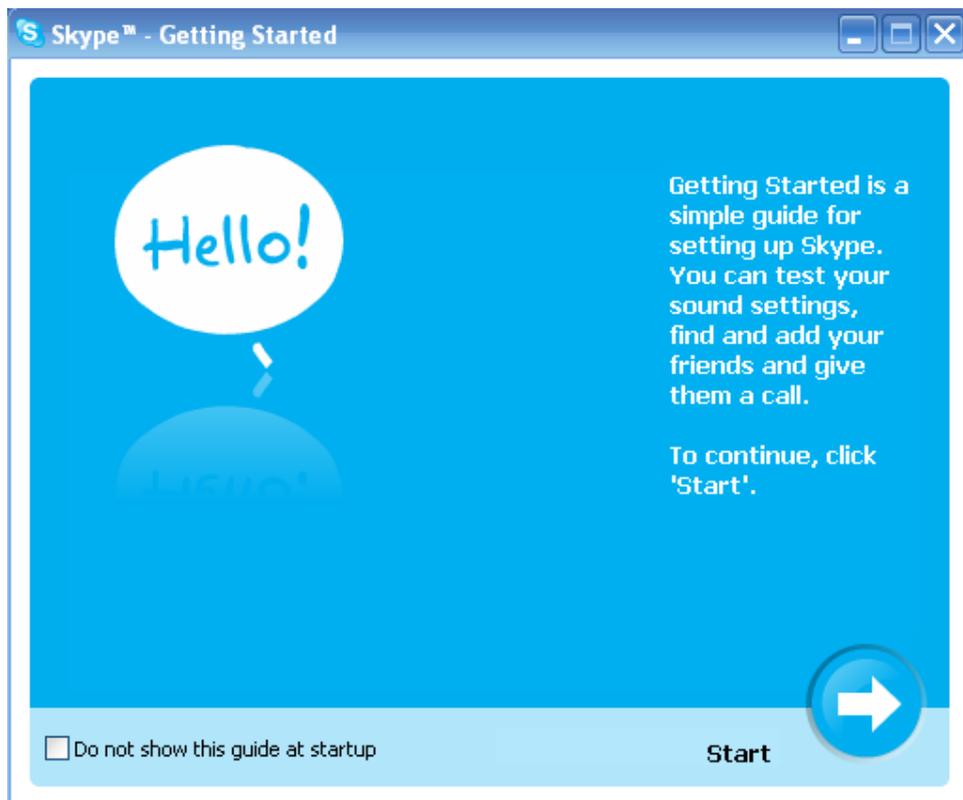
Yes, send me Skype news and special offers

Country/Region

City

Sign me in when Skype starts

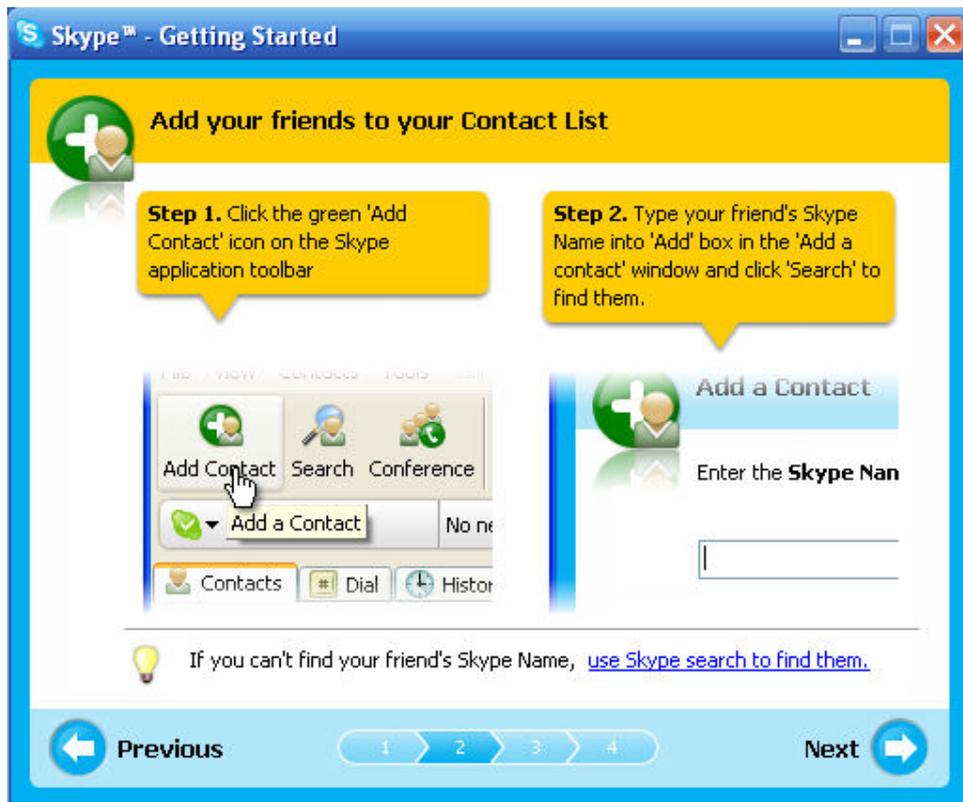
7. A **Getting Started** window comes up. Press **Start** button to get a simple guide for setting up Skype.



8. The next window will help user to check your sound settings by making a Skype test call. Click **Next**.



9. The next window will guide user to add friends to user's Skype contact list. Click **Next**.



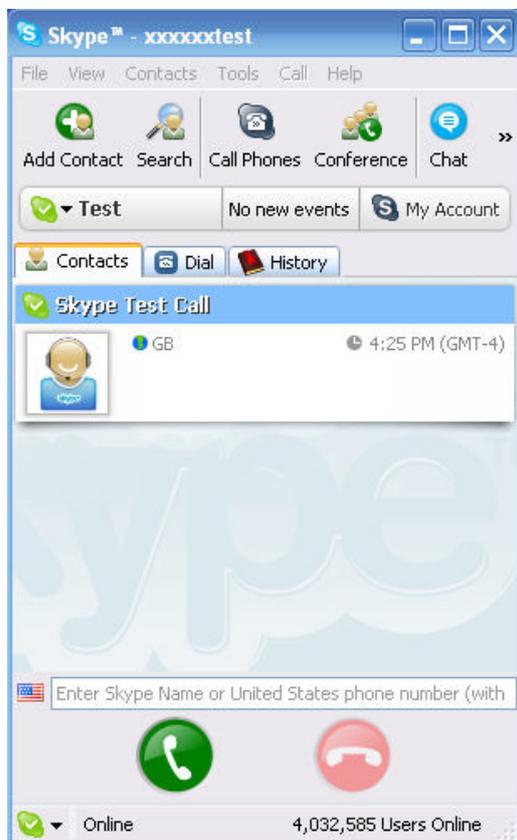
10. Then user can try to call friends. Click **Next**.



11. Next window will guide user to call ordinary phones with Skype(SkypeOut) and click **Finish**.



12. Next, Skype main window will pop up and user can start to enjoy Skype.

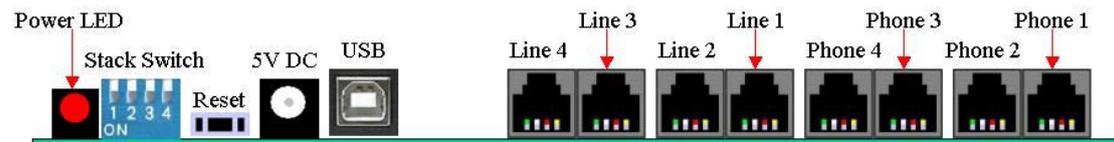


4. ST-4004 Hardware Setup

This section shows how to connect ST-4004 to ST-4004 server PC and PBX.

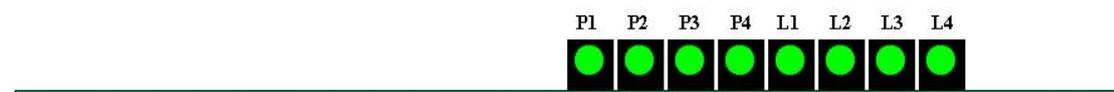
4.1 ST-4004 Hardware Description

ST-4004 rear panel



1. Power LED: Red LED is light when power is on.
2. Stack Switch: ST-4004 can stack with another ST-4004 to add more Skype channels through appropriate dip switch setting. There is one EEPROM program utility for the cascaded ST-4004 devices.
3. Reset: Hardware reset.
4. 5V DC: Power socket for an external AC power adapter (5V/3Amp output).
5. USB Port: B type USB connector for PC USB port.
6. Line1 to Line 4: 4 FXO ports for landlines.
7. Phone1 to Phone 4: 4 FXS ports for PBX trunk ports.

ST-4004 front panel

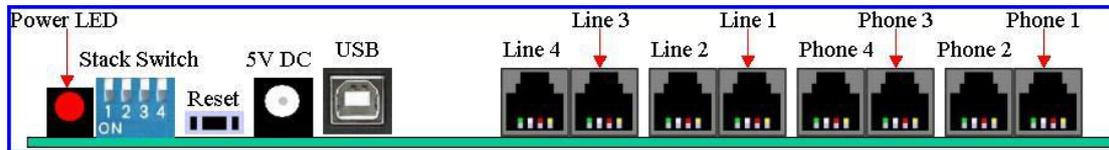


1. P1 to P4 LEDs: Stand for status of Phone1 to Phone 4. For example: P1 LED represents Phone1.
2. L1 to L4 LEDs: Stand for status of Line1 to Line 4. For example: L1 LED represents Line1.

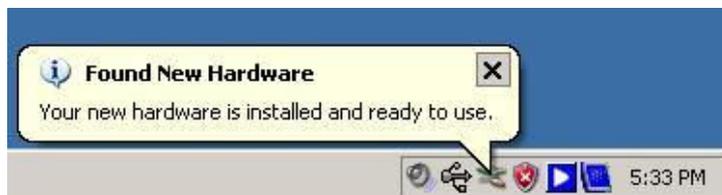
【Note】

1. PBX : Private Branch Exchange
2. PSTN : Public Switched Telephone Network.
3. FXS : Foreign Exchange Station which can connect with regular phone, electrograph, or PBX PSTN card.
4. FXO : Foreign Exchange Office which can connect with landline or PBX extension card.

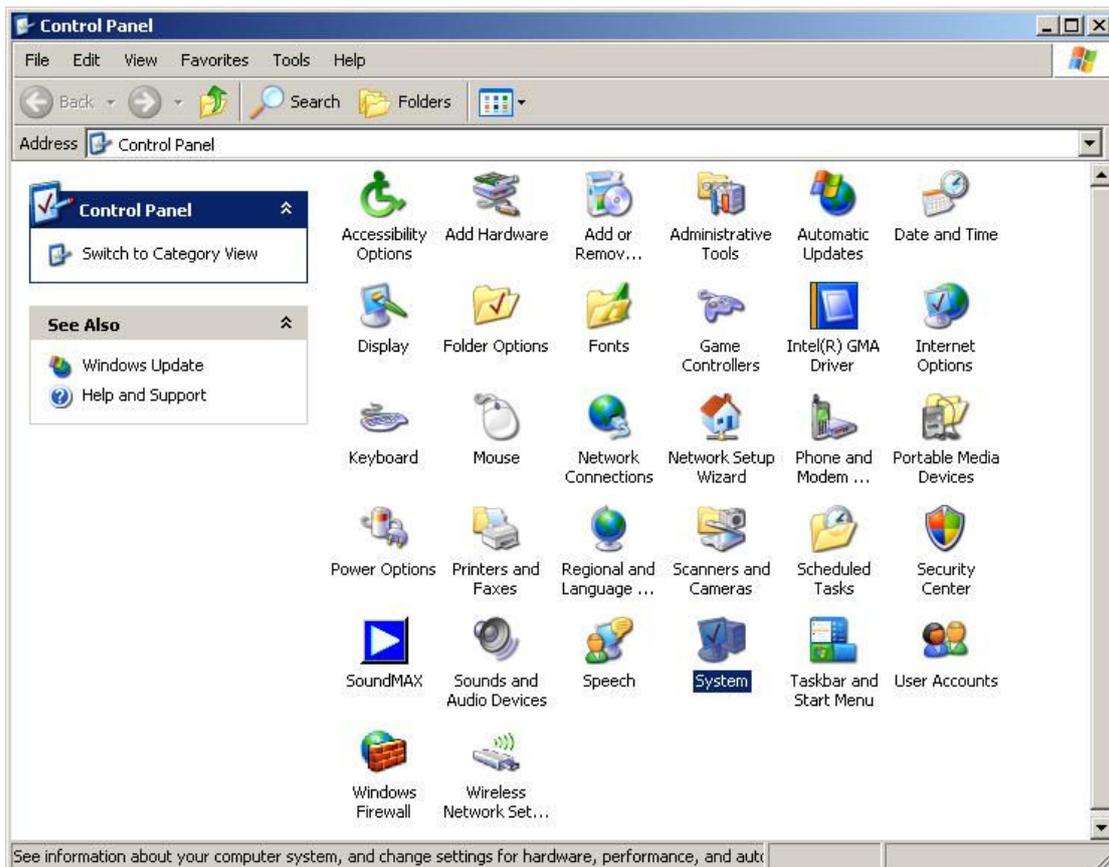
4.2 Connect ST-4004 to a server PC

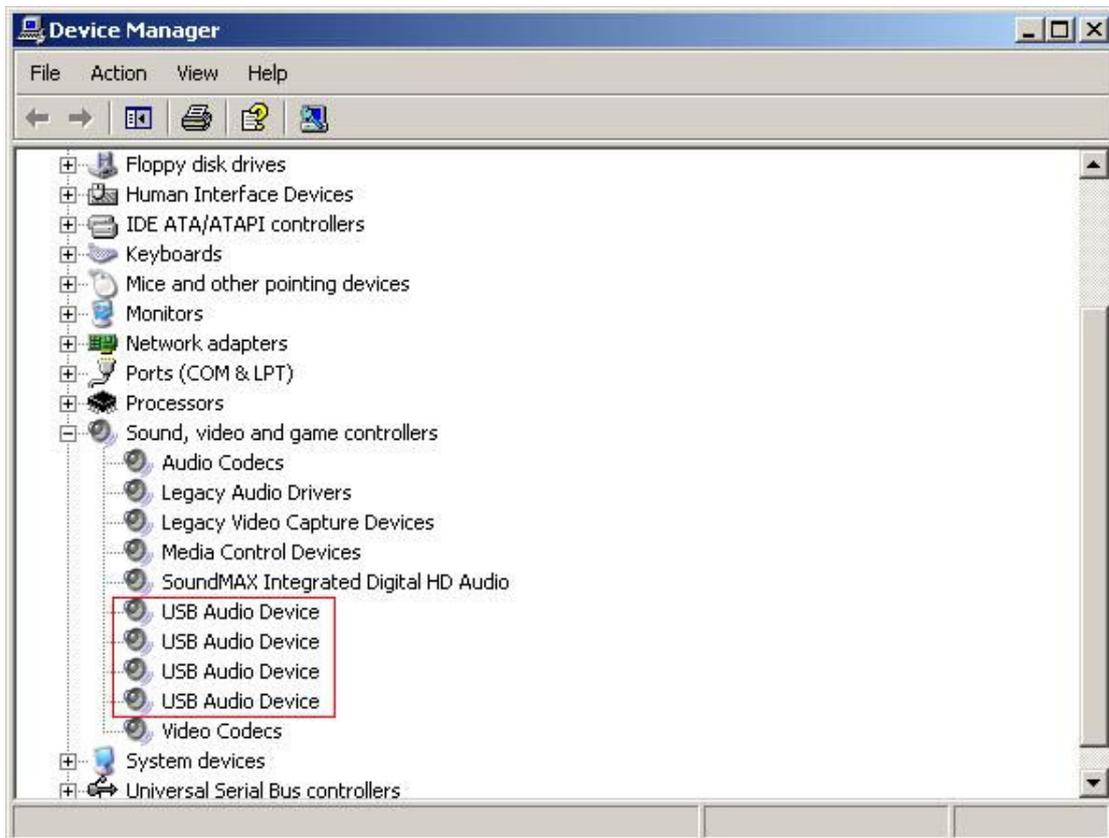
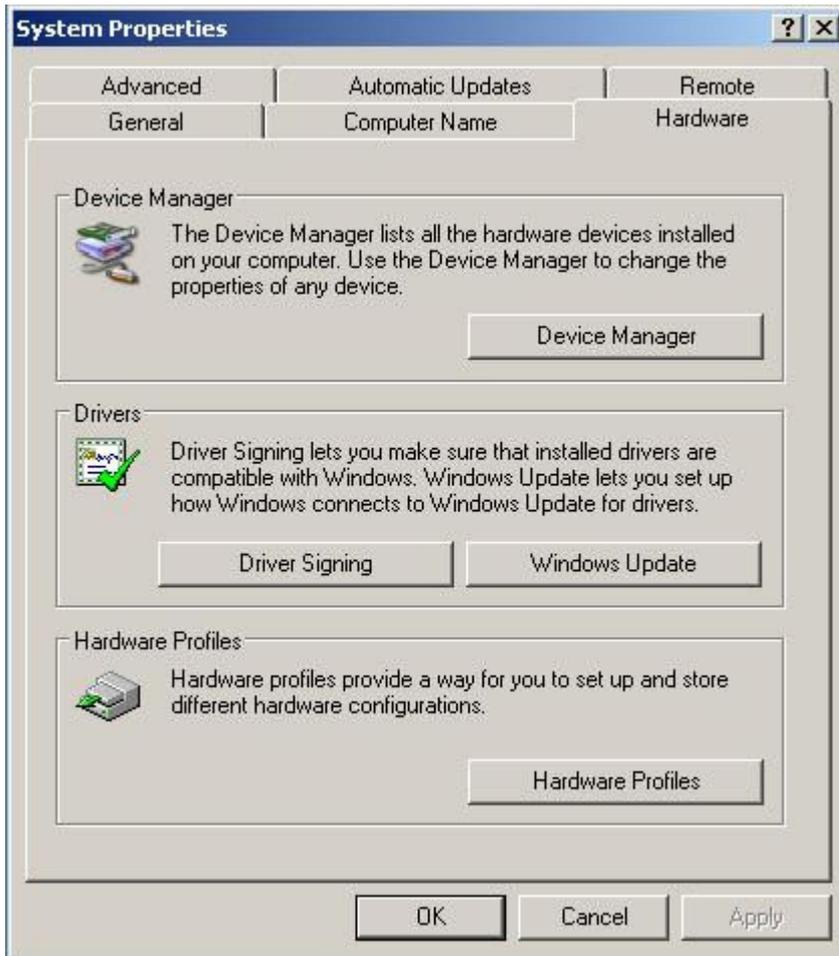


1. Connect the 5V/3A power adapter to 5V DC power socket. The power LED indicator is always on after plugging in power adapter.
2. Connect ST-4004 to a server PC with the supplied USB cable.
3. After ST-4004 is connected to the computer, the “**Found New Hardware**” window will show up in the right down corner of Windows desktop as below figure:

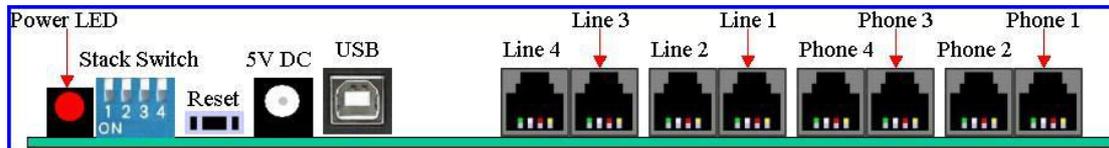


4. If ST-4004 connects with the server PC successfully, user will find four USB audio devices (USBAudio00 ~ USBAudio03) in Windows Device Manager. Go to “**Start**” menu from the left bottom corner of Windows desktop→ “**Control Panel**”→ “**System**”→ “**System Properties**”→ “**Hardware**”→ “**Device Manager**”, and then click “**Sound, video and game controllers**” to check USB audio devices.

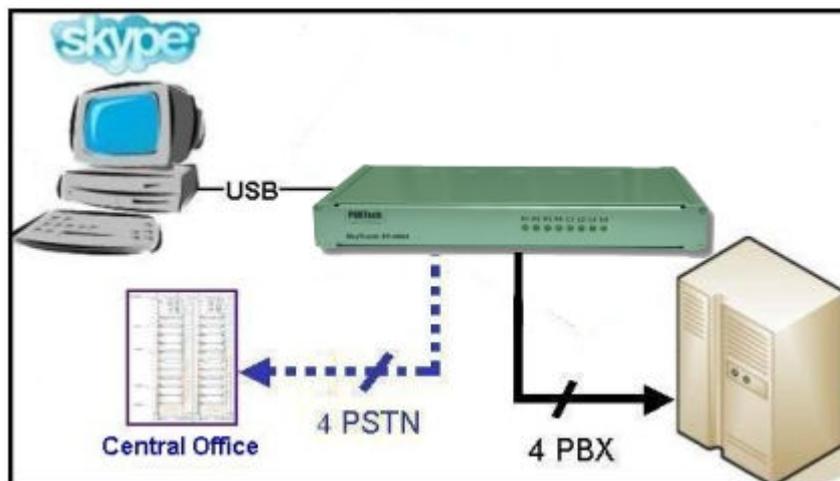




4.3 Connect ST-4004 to PBX



1. Connect ST-4004 Phone 1 port to PBX's trunk port 1, Phone 2 port to PBX's trunk port 2, Phone 3 port to PBX's trunk port 3, and Phone 4 port to PBX's trunk port 4.
2. Connect Line1 port ~ Line 4 port of ST-4004 to landlines. This can be an option and user can decide whether ST-4004 supports PSTN function or not.
3. Assign a hunting group number for these PBX trunk ports.
Example: Set number "0" for PBX landline hunting
and number "9" for ST-4004 Skype line hunting.



5. Install ST-4004 Software

This section guides user how to install ST-4004 software into a ST-4004 server PC.

5.1 ST-4004 Software Installation

Before installing ST-4004 software, please verify the following items.

1. Please make sure Skype 3.6.0.216 or 3.8 is installed.
2. Please make sure there are 4 registered Skype accounts including one enterprise account.
3. Please make sure ST-4004 is connected with ST-4004 server PC

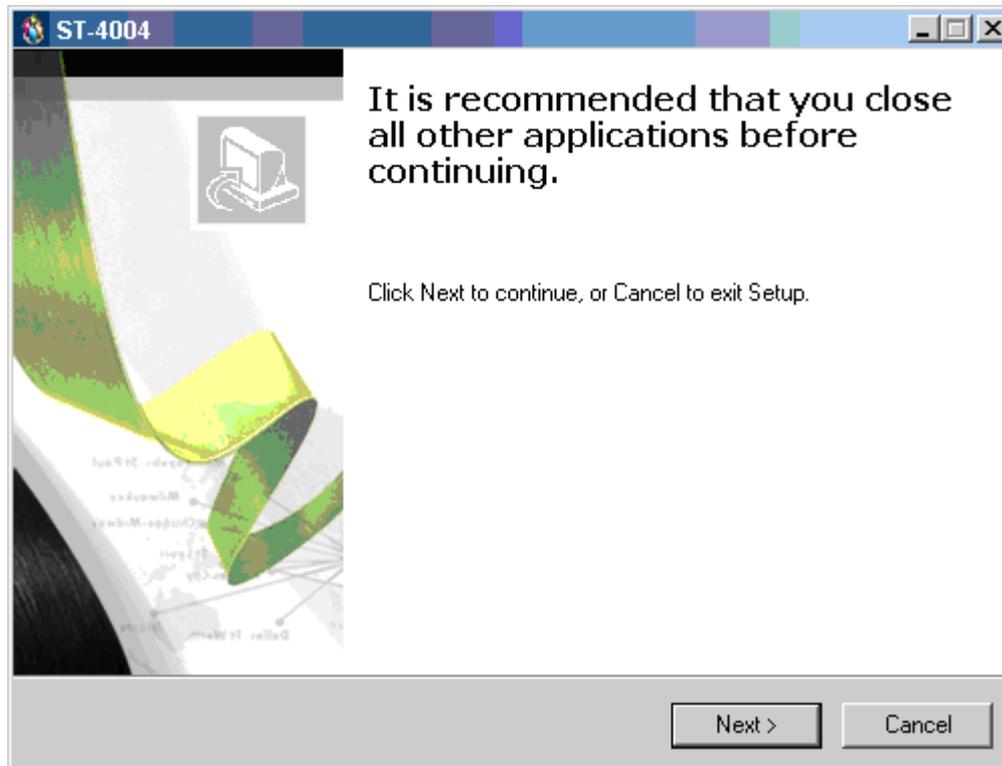
To install ST-4004 software:

Step1: Insert the **Installation CD** into the CD-ROM drive of the computer.

ST-4004 installation screen will pop out. Click **Install** to start to install ST-4004 software.

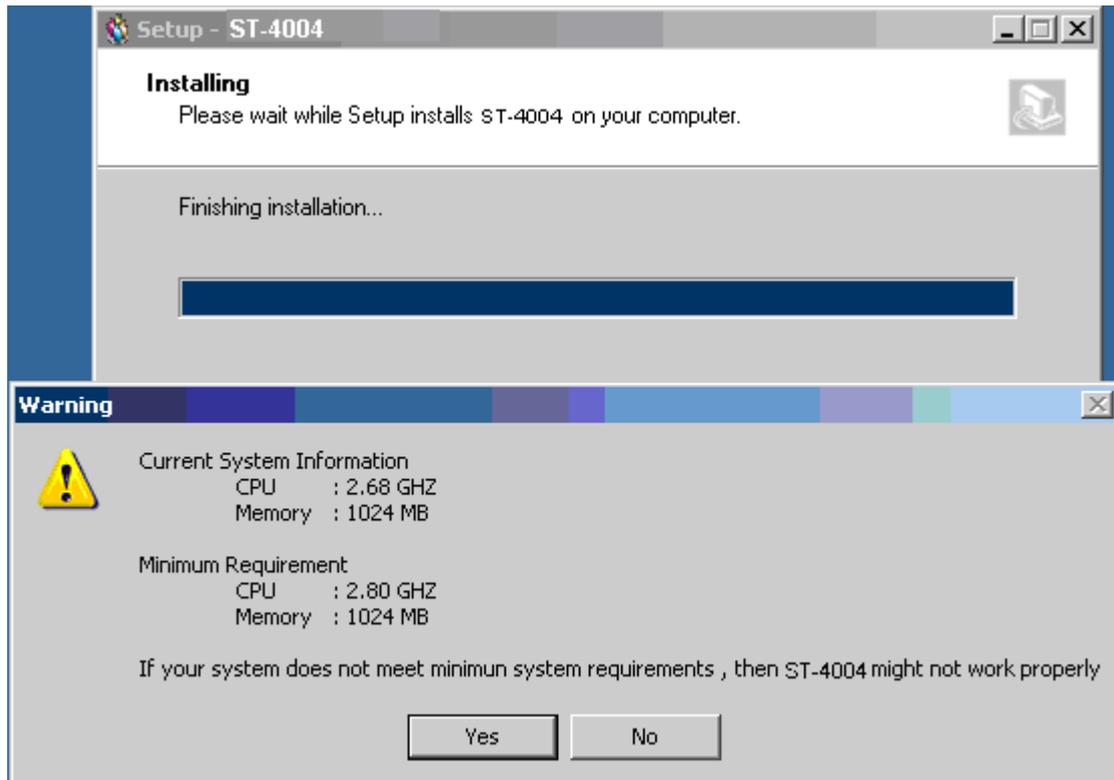


Step2: There comes a window to recommend administrator to close all other applications before continuing to install ST-4004 as below:



After

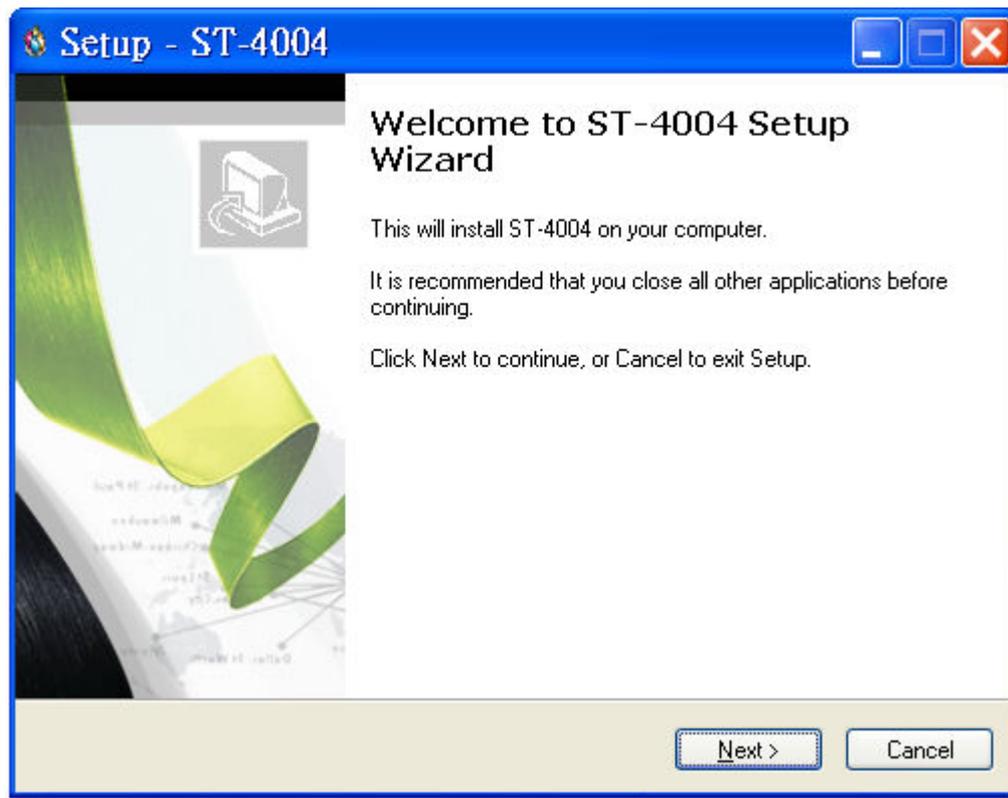
clicking Next button, if ST-4004 server PC can't meet minimum system requirements, a warning message will pop out. User can choose to continue installation or not.



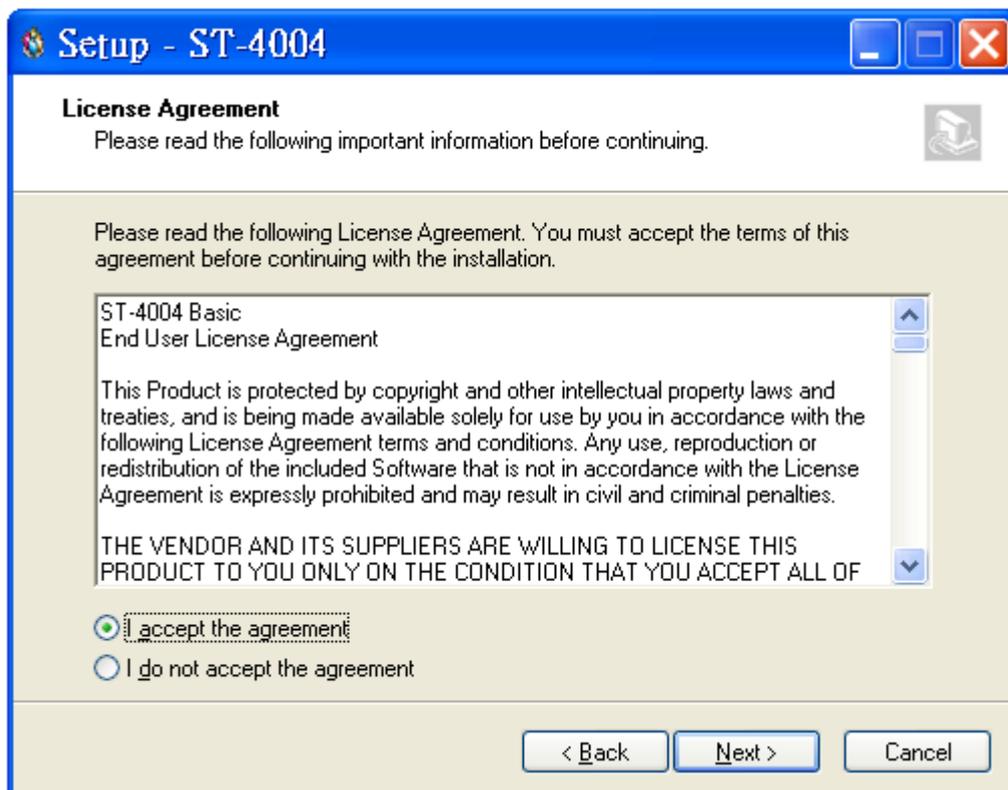
Step 3: The window of “**Select Setup Language**” will show up, administrator can select a preferred language by scrolling down the selection bar as the figure below, and then click “**OK**” to continue next step.



Step 4: The window of “**Welcome to ST-4004 Setup Wizard**” pops out. Read the on-screen instructions and click “**Next**” to continue next step, as the figure below:

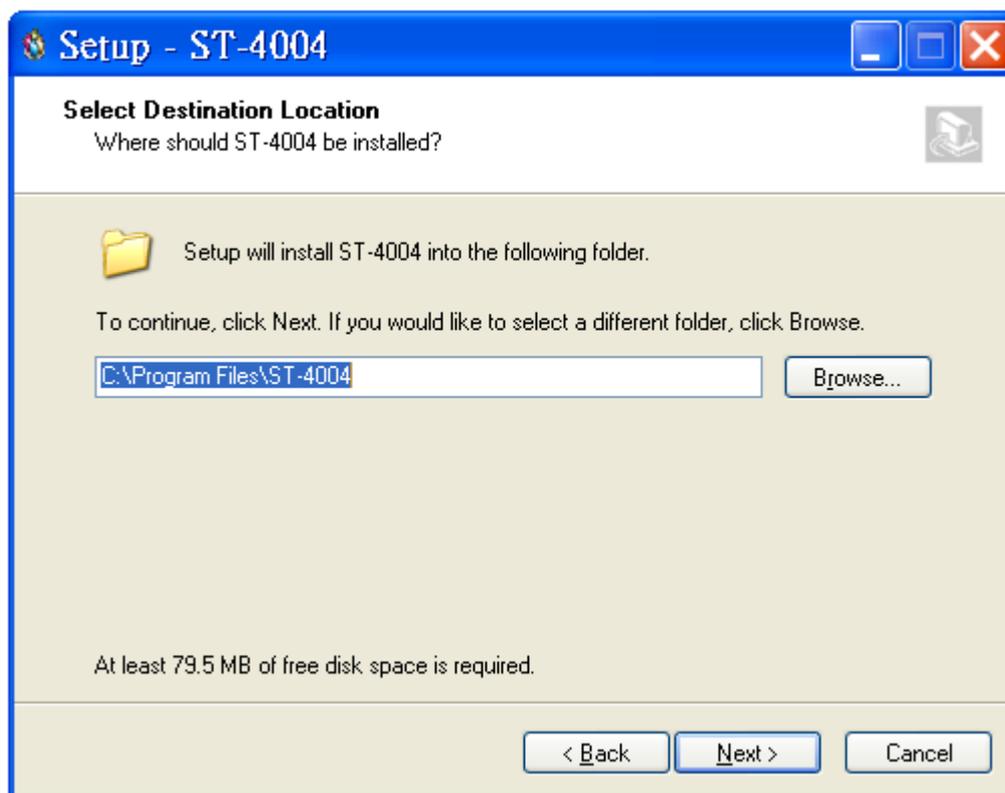


Step 5: The window of “**License Agreement**” pops out. After reading content of the agreement carefully, please check the box of “**I accept the agreement**”. And then click “**Next**” to continue next step.

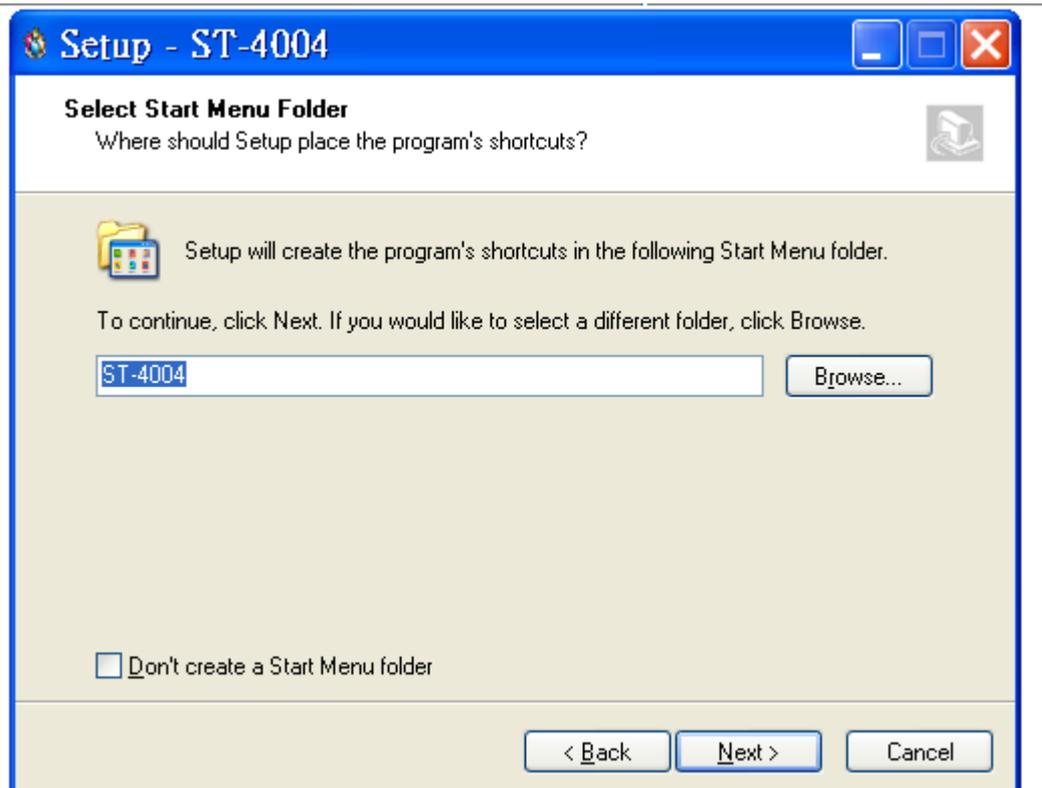


【Notice】 User can click “ **Back**” to go back to the previous step anytime during the installation.

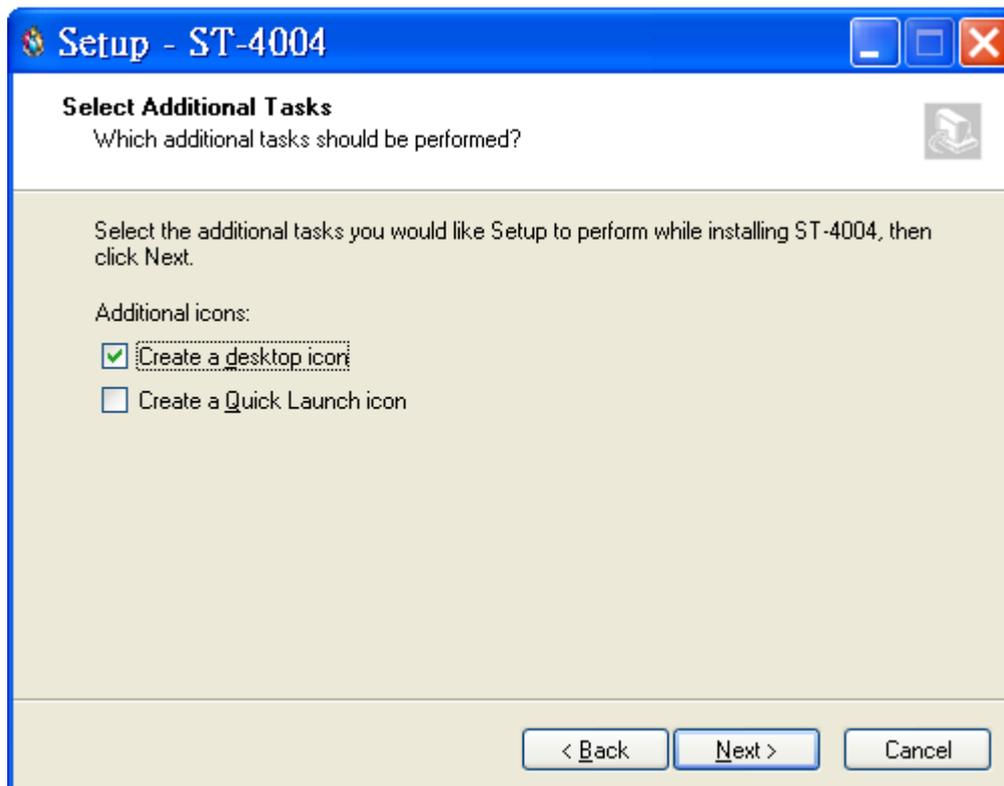
Step 6: In the next window of “**Select Destination Location**”, designate a folder for the installation. If this is not a preferred folder for administrator, click” **Browse**” and choose a folder from the list. After deciding which folder for the installation, user can click” **Next**” to continue.



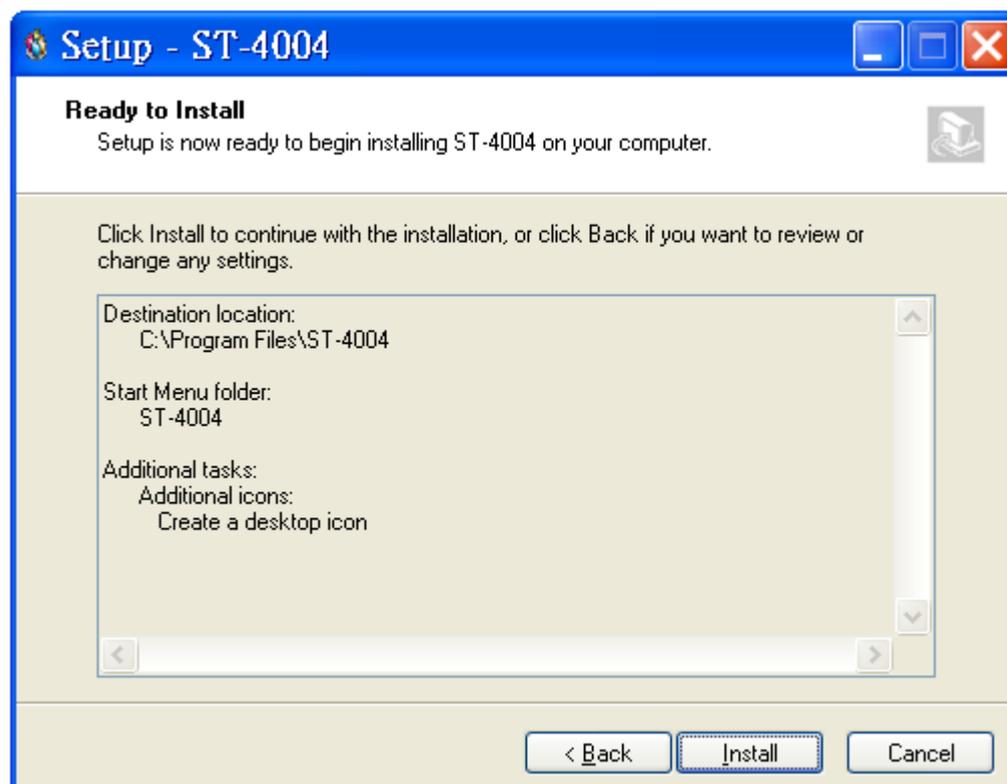
Step 7: In the next window of “**Select Start Menu Folder**”, choose a preferred folder for ST-4004 program’s shortcuts in Start Menu folder. If this is not a preferred folder, click “**Browse**” and choose a folder from the list. User can choose not to create a Start Menu folder by check the box of “**Don’t create a Start Menu folder**”, and click “**Next**” when the setting is done.



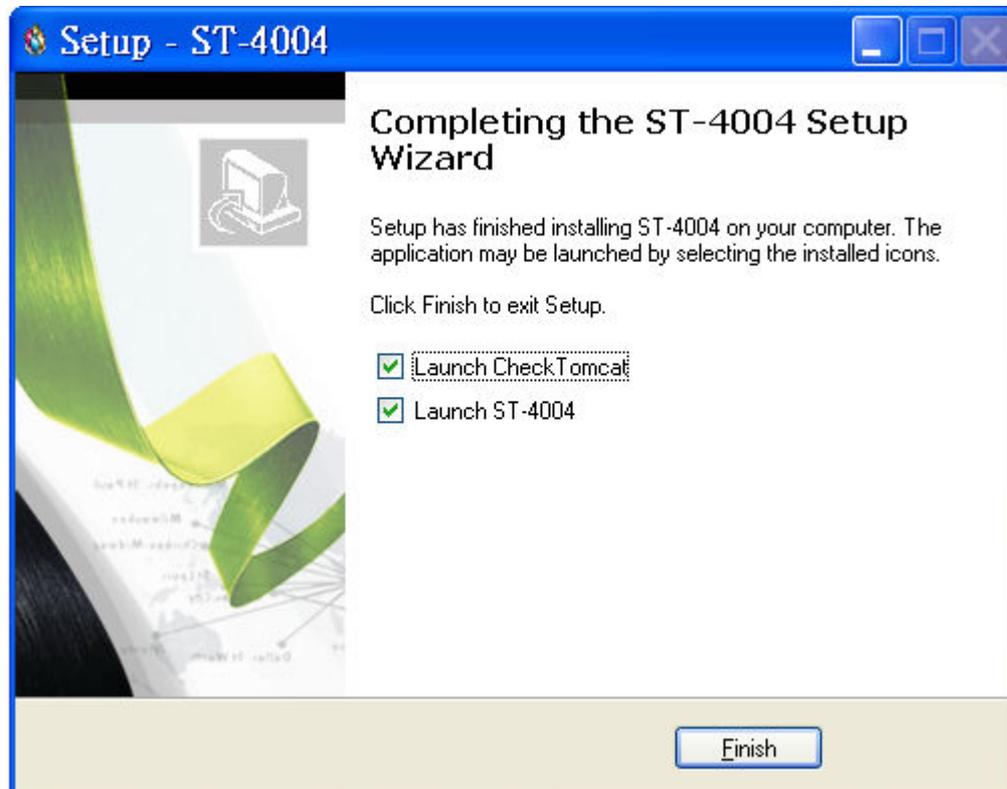
Step 8: In the next window of **“Select Additional Tasks”**, there are options for **“Create a desktop icon”** or **“Create a Quick Launch icon”**. Check the appropriate box as desired. After ST-4004 AP is launched, the desktop icons will appear on the computer desktop and the quick launch icon will appear in the left bottom corner of the Windows screen. Click **“Next”** to continue.



Step 9: The next window contains the related installation information and allows the user to select to start the installation. Carefully examine the configurations. If configurations need to be changed, click **“Back”** to make necessary modifications. If not, click **“Install”** to start the installation.

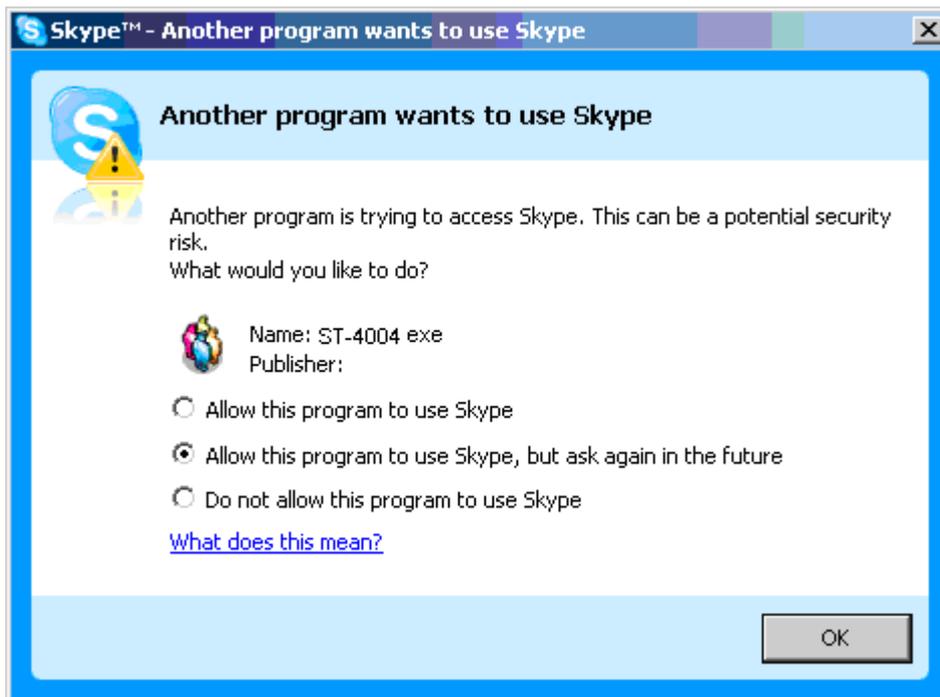


Step 10: After finishing installation of ST-4004, the window of “**Completing the ST-4004 Setup Wizard**” will pop out and user can choose to check the “**Launch Check Tomcat**” and “**Launch ST-4004**” boxes. Click “**Finish**” to finish the setup, as the figure below.



【Notice】 After completing the installation of ST-4004 software, please do not stop two DOS programs(Tomcat & Start ST-4004 Web Server). These two programs are used for Web server management.

Step 11: If administrator attempts to launch ST-4004 in previous step, Skype will invoke one warning window “**Another program wants to use Skype**”. Select “**Allow this program to use Skype**” or “**Allow this program to use Skype, but ask again in the future**”. Then click “**OK**”.



【 Notice 】

Please do not select the option of **“Do not allow this program to use Skype”**. If this option has been chosen, and user still wants to use ST-4004, please refer to **Skype Privacy Setting** for solution.

Step 12: After finishing ST-4004 setup successfully, Sub Skype Accounts setting window will pop out. Administrator could set 1 to 3 sub Skype accounts according to needs.

ST-4004 - Skype Account

Skype Account: 3

Skype 1

Skype Name: voip-2222

Password: *****

Skype 2

Skype Name: voip-3333

Password: *****

Skype 3

Skype Name: voip-4444

Password: *****

Apply Cancel

Enter Skype name and password and select “**Apply**”. Administrator could see the correct Skype icon numbers at the right corner bottom of Windows desktop as the figure below.



6. Configure Skype Option

After ST-4004 is completely installed and launched, some Skype options will be adjusted for better operation.

6.1 Allow Anyone Call In/Chat

If user wants to let any Skype user call ST-4004, below steps can be followed to enable this function.

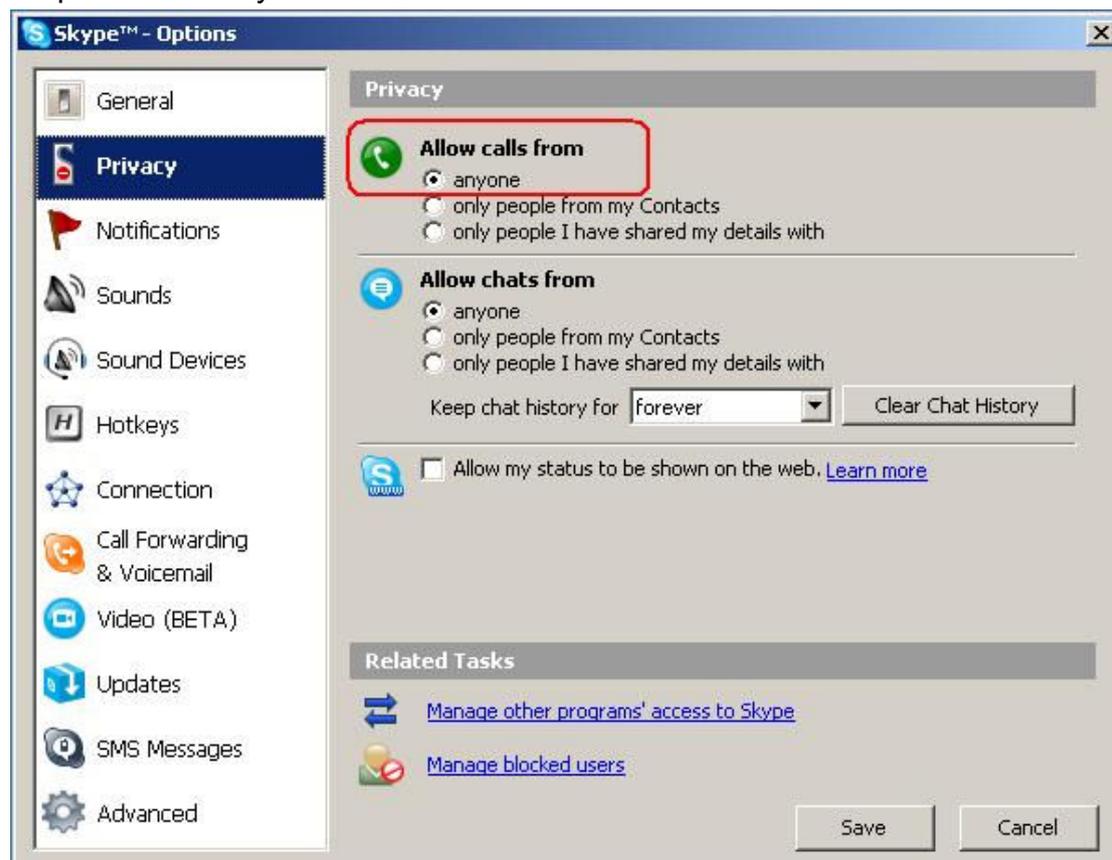
Step 1. Select **“Tools”** tab from Skype main window.

Step 2. Select **“Options”**.

Step 3. Select **“Privacy”**.

Step 4. Check anyone box of **“Allow calls from”**.

Step 5. Check anyone box of **“Allow chats from”**.



Click **“Save”** button to save configuration.

6.2 Set Skype Always Online

By default, Skype status will show as “Away” when you are inactive for 5 minutes, and shows as “Not Available” when you are inactive for 20 minutes. Please set both value to “0” minutes to show the Skype status as always “online” by following steps.

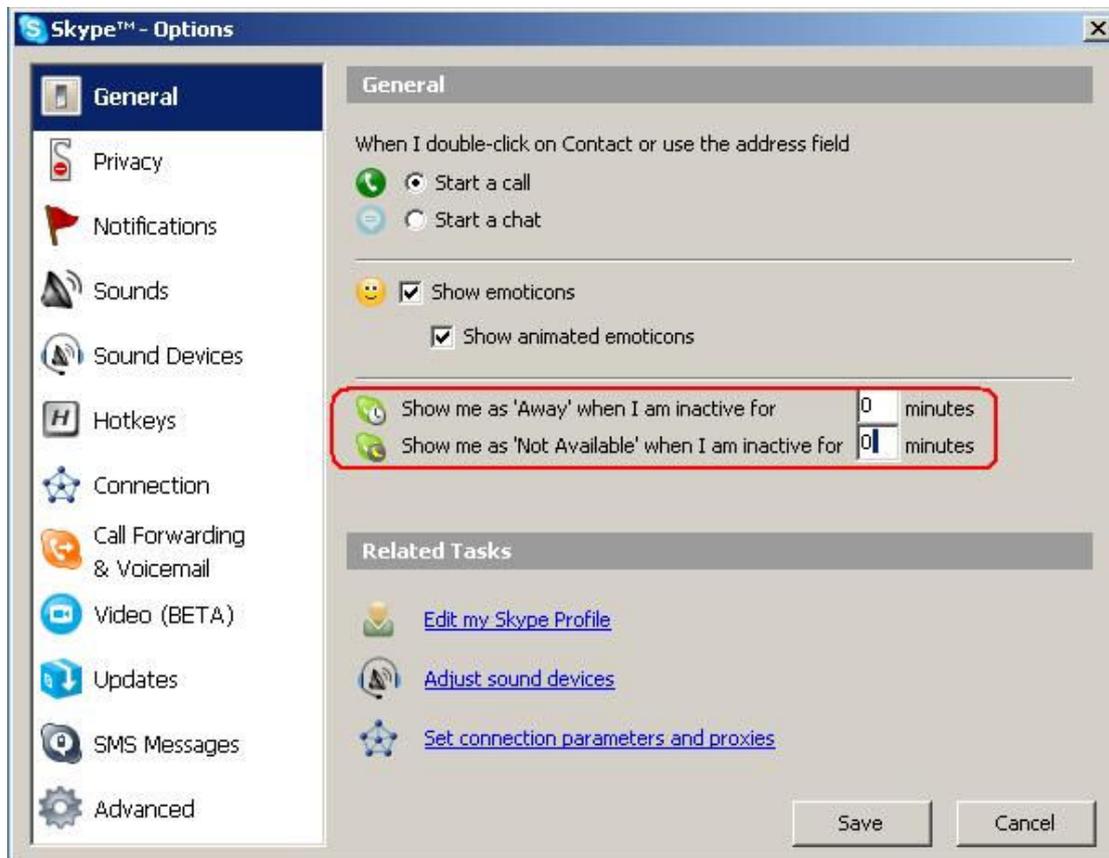
Step 1. Select “**Tools**” tab from Skype main window.

Step 2. Select “**Options**”.

Step 3. Select “**General**”.

Step 4. Fill 0 for “Show me as “Away” when I am inactive for _ minutes”

Step 5. Fill 0 for “Show me as “Not Available” when I am inactive for _ minutes”



Click “**Save**” button to save configuration.

6.3 Disable Skype Sounds

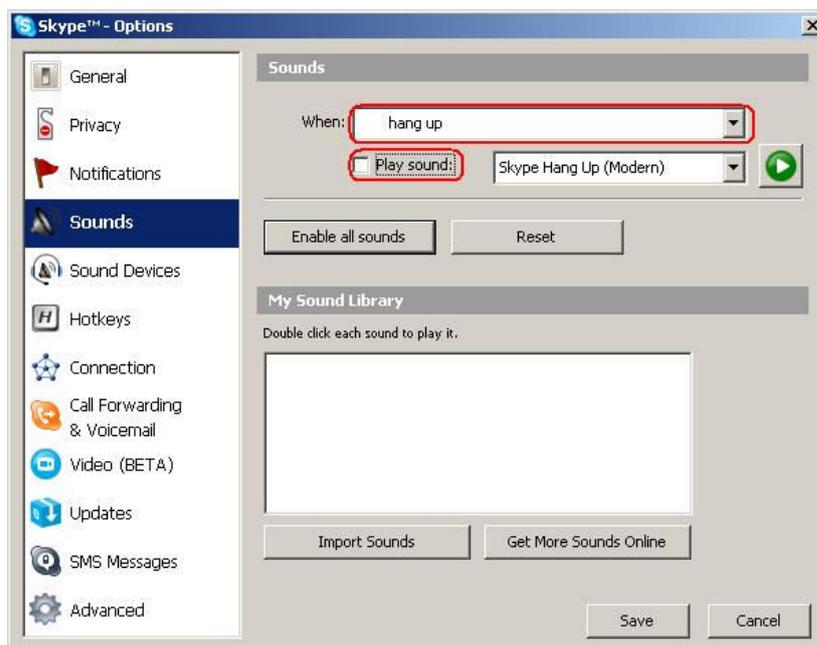
User needs to disable Skype generated sounds in ST-4004 server PC to avoid in-progress Skype calls to hear other incoming Skype call prompt. Hang-up and knocking sounds can be disabled as following steps.

Step1. Select “**Tools**” tab from Skype main window.

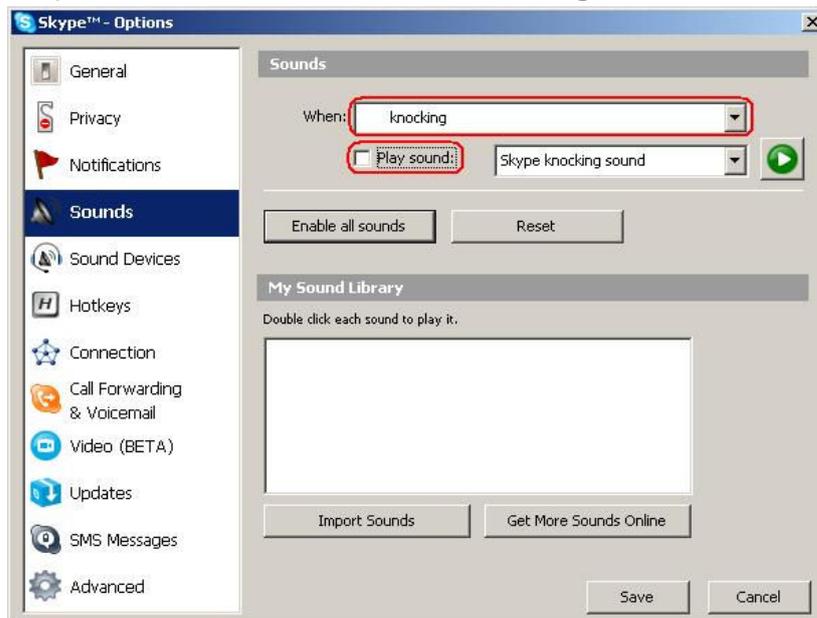
Step2. Select “**Options**”.

Step3. Select “**Sounds**”.

Step4. Scroll the bar to select “**hang up**”. And then disable “**Play sound**”.



Step5. Scroll the bar to select “**knocking**”. And then disable “**Play sound**”.



Click “**Save**” button to save configuration.

6.4 Disable Skype Video

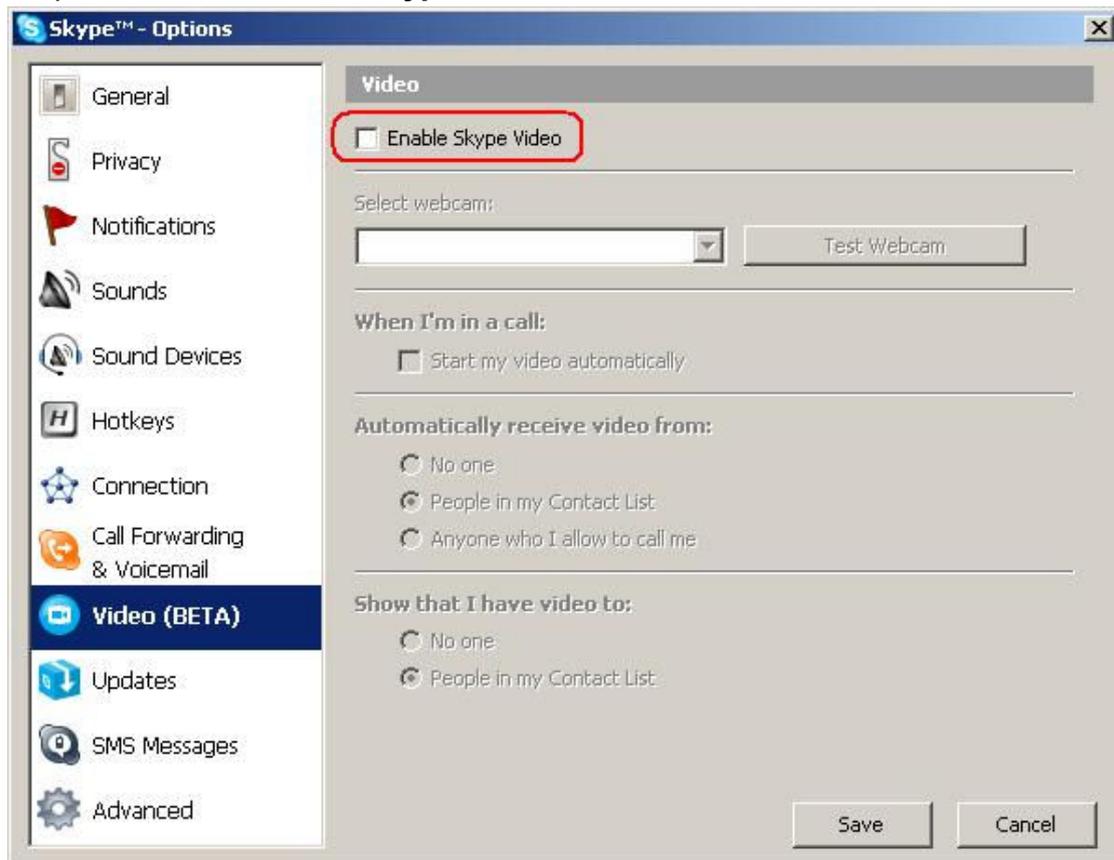
Skype video function can be disabled to avoid consuming internet bandwidth and ST-4004 server PC resource. Please disable Skype Video support as following steps.

Step 1. Select **“Tools”** tab from Skype main window.

Step 2. Select **“Options”**.

Step 3. Select **“Video”**.

Step 4. Disable **“Enable Skype Video”**.



Click **“Save”** button to save configuration.

7. ST-4004 Setting

There are three options (**Option**, **About** and **Exit**) when user clicks ST-4004 system tray icon at the right-bottom corner of Windows desktop.

Option: Basic settings of ST-4004.

About: The version of ST-4004 software.

Exit: Close ST-4004 AP, logout sub Skype and Win XP user accounts (ST-4004_1, ST-4004_2, and SkyGW_3).

Option

The Option includes the settings most commonly selected by users. When user clicks the “**OK**” button at the bottom of Option dialogue after making a new setting, the new setting will be activated and Option dialogue closes immediately. If user clicks the “**Apply**” button at the bottom of Option dialogue after making a new setting, the new setting will be activated immediately and user can continue to make more changes if necessary. User chooses both “**OK**” or “**Apply**” button, the new setting will be saved and user has the updated setting when user launches ST-4004 again. User can use “**Cancel**” button to cancel the changes and Option dialogue closes immediately. Besides, user can click “**Default**” button to refresh settings to default settings in every pages. There are following five pages:

General Setting Page

Configure Setting Page

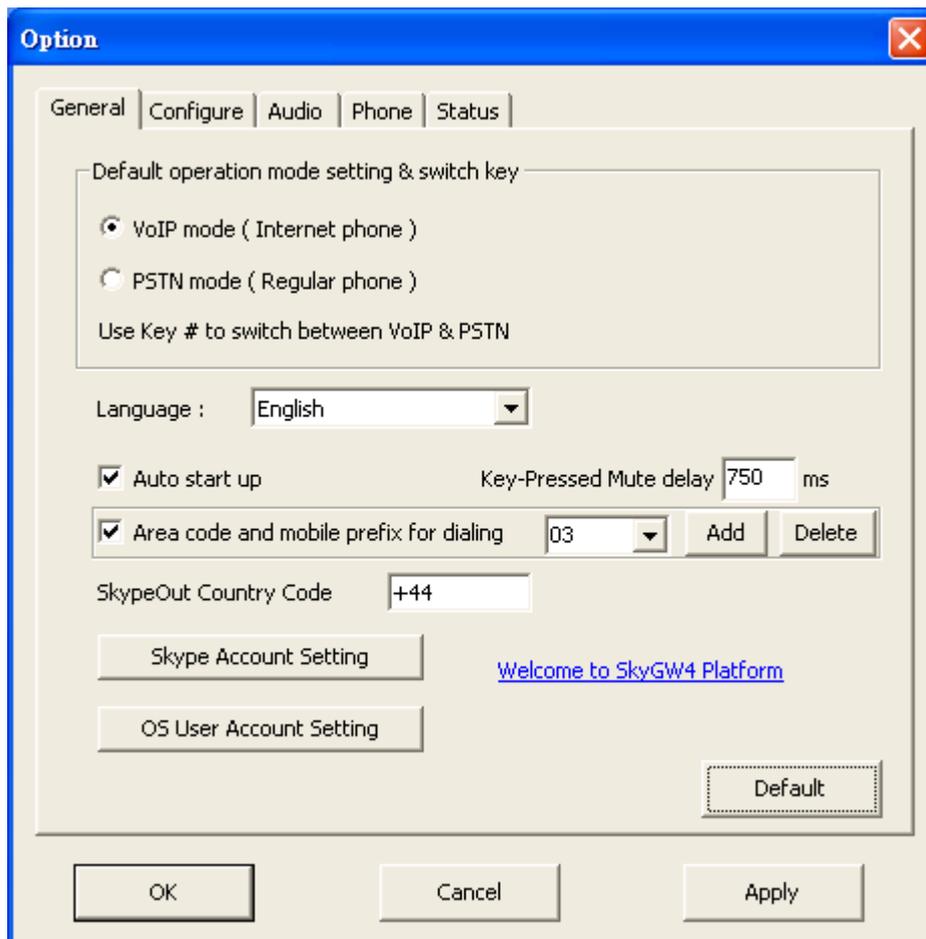
Audio Setting Page

Phone Setting Page

Status Setting Page

7.1 General Setting Page

This page provides the basic operation settings, including Default operation mode setting & switch key, Language, Auto start up, Area code and mobile prefix, SkypeOut country code selection, Skype Account Setting and OS User Account Setting as the below figure.



1. Default operation mode setting & switch key:

ST-4004 supports either VoIP or PSTN default operation mode. There are different dial tones for Skype and PSTN modes.

1. When user selects VoIP as the default operation mode:
 - A. Pick up an extension phone and press PBX trunk number key such as “9” from phone keypad. For example, press “0” key to hunt an available landline and press “9” to hunt an available Skype line.
 - B. Then user can dial a Skype call directly. For a landline call, user needs to dial “#” key first and then hears a PSTN dial tone. Make a landline call as user did in the past.
2. When user selects PSTN as the default operation mode:
 - A. Pick up an extension and press “0” key from phone keypad. For example, press “0” key to hunt an available landline and press “9” to hunt an available Skype line.
 - B. Then user can dial a PSTN number directly. For a Skype call, user needs to dial “#” key first and then hears a Skype dial tone. Then make a Skype call.

Default setting is VoIP mode

2. Language: Three languages are supported: English, Simplified Chinese, and Traditional Chinese. If user installs ST-4004 in one Windows operation system and the operation system's language is not in the above language supporting list, then Language will be set to English automatically. The default language is decided by the "Select Setup Language" setting during ST-4004 setup program is installing. However, the user interface language can be changed by changing the language selection. ST-4004 web language interface is also decided by the "Select Setup Language" setting during ST-4004 setup program is installing.

3. Auto Start Up: If this setting is enabled, ST-4004 program will be automatically loaded and executed when the computer operating system is started. The default setting is enable.

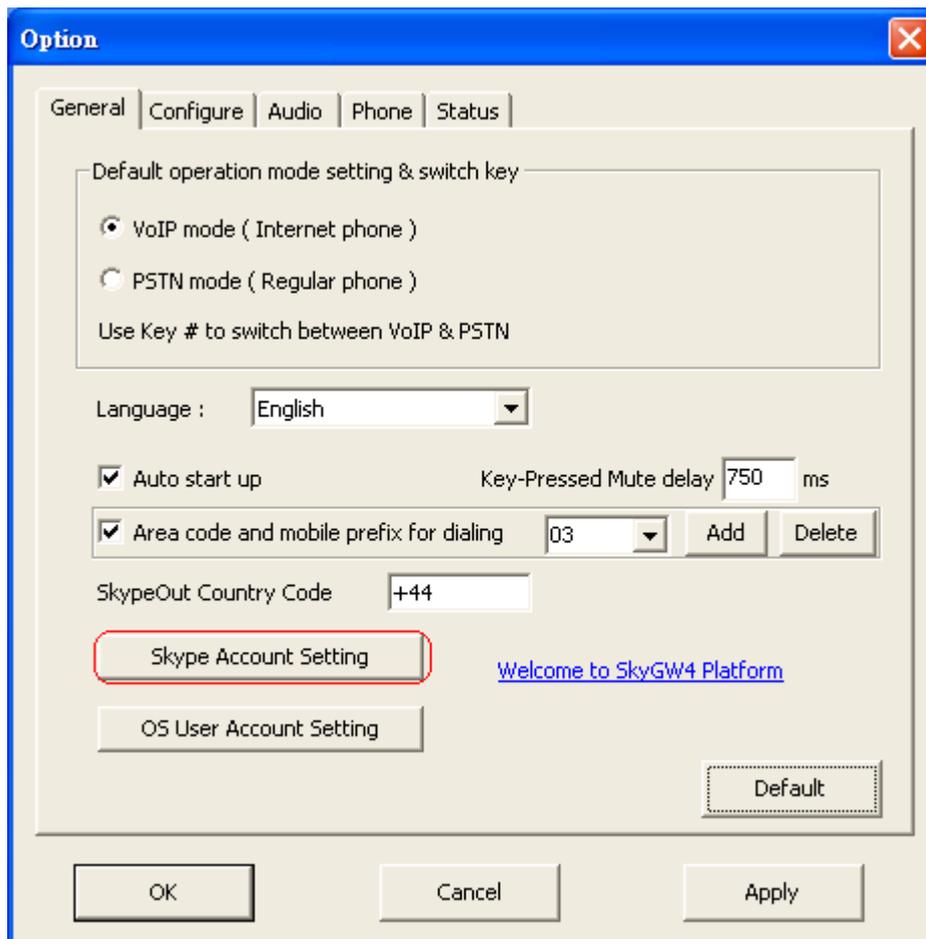
4. Area code and mobile prefix for dialing: There are default area codes for Taiwan and China. For other countries, user needs to fill in all the area codes and the mobile prefix in the country. And choose the area code user is located. Then user can dial the number directly for a local call as user does for a landline call.

5. SkypeOut Country Code: Standard SkypeOut call number format is "00" or "+" key + country code + local PSTN/Mobile number. With a correct country code setting, user can omit 00 + country code when making a domestic SkypeOut call.

7.1.1 Skype Account Setting

ST-4004 software will ask user to fill in Skype accounts information during setup. However, user can follow below steps to change Skype accounts.

Step 1: Click "**Skype Account Setting**" button of General page in the GUI.



Step 2: Choose how many sub Skype accounts user needs in addition to the main Skype account in the ST-4004 server PC. The main Skype account will be the enterprise Skype account. For example, user needs three Skype lines for ST-4004, then user can select “2” Skype Account.

ST-4004 - Skype Account

Skype Account: 2

Skype 1

Skype Name: voip-2222

Password: *****

Skype 2

Skype Name: voip-3333

Password: *****

Skype 3

Skype Name: voip-4444

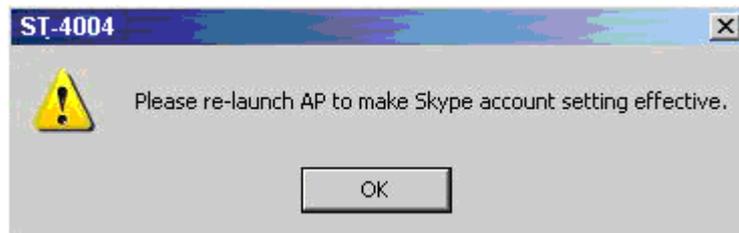
Password: *****

Apply Cancel

Step 3: Enter Skype name

or password- the maximum length allowed is 31 alphanumeric characters. Click “**Apply**” to save the changes.

Step 4: After the changes is saved, a warning message will come up to remind user to re-launch ST-4004 software. Then click “**OK**”.



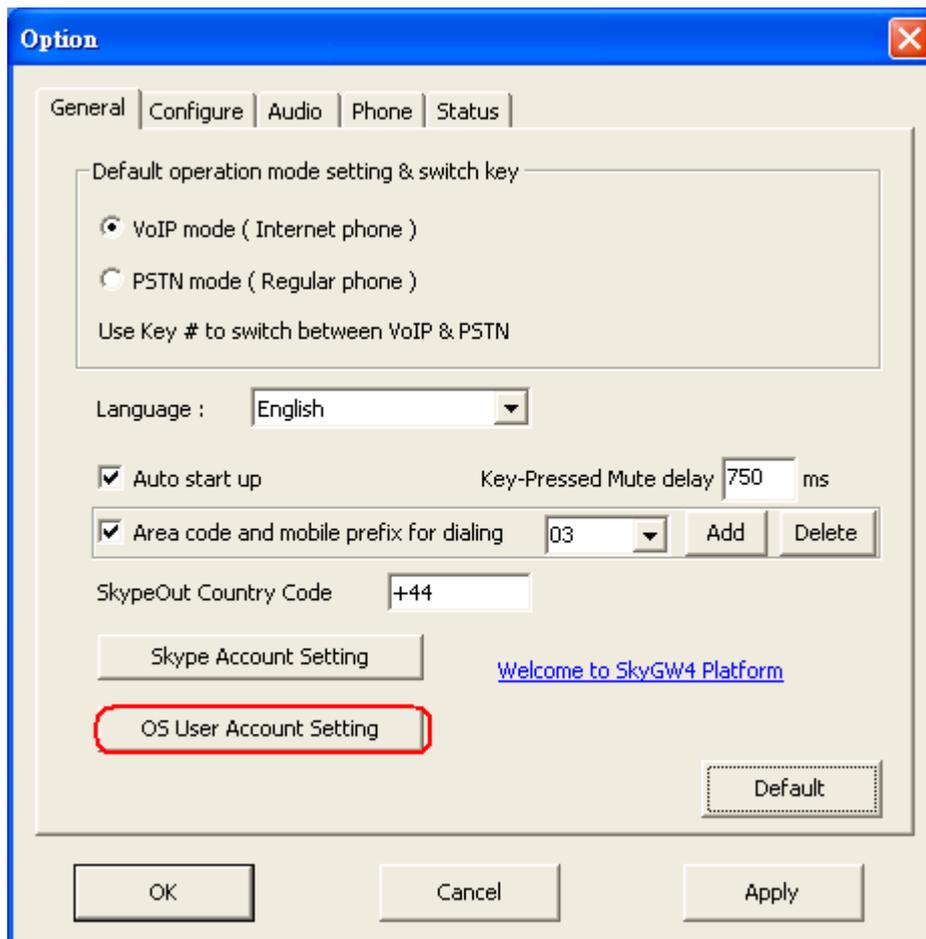
【Tip】 Quick Skype login: After creating a Skype account, check the box of “Sign me in when Skype starts” to launch Skype immediately as below.



7.1.2 OS User Account Setting

After installed, ST-4004 software will automatically create three Windows user accounts in the ST-4004 server PC: ST-4004_1, ST-4004_2, and ST-4004_3. The default password for these accounts is admin. If user wants to change OS user account or password, please refer the following steps.

Step 1: Click “**OS User Account Setting**” button of General page in the GUI.



Step 2: Choose how many extra OS user accounts user needs. In order to have four Skype lines support from ST-4004, user needs to add three OS User Accounts to match the Skype Account setting. It is recommended that user can create extra three OS User Accounts for future expansion.

Step 3: Enter new account name-the maximum length allowed is 32 alphanumeric characters. And enter the password-the maximum length allowed is 31 alphanumeric characters. Click “**Apply**” to save the changes.

Step 4: After modification, a warning message will come up to remind user to re-launch ST-4004 software. Then click “**OK**” to finish modification.



ST-4004 - OS User Account

OS User Count: 3

Account 1

Account Name: ST-4004_1

Password: *****

Account 2

Account Name: ST-4004_2

Password: *****

Account 3

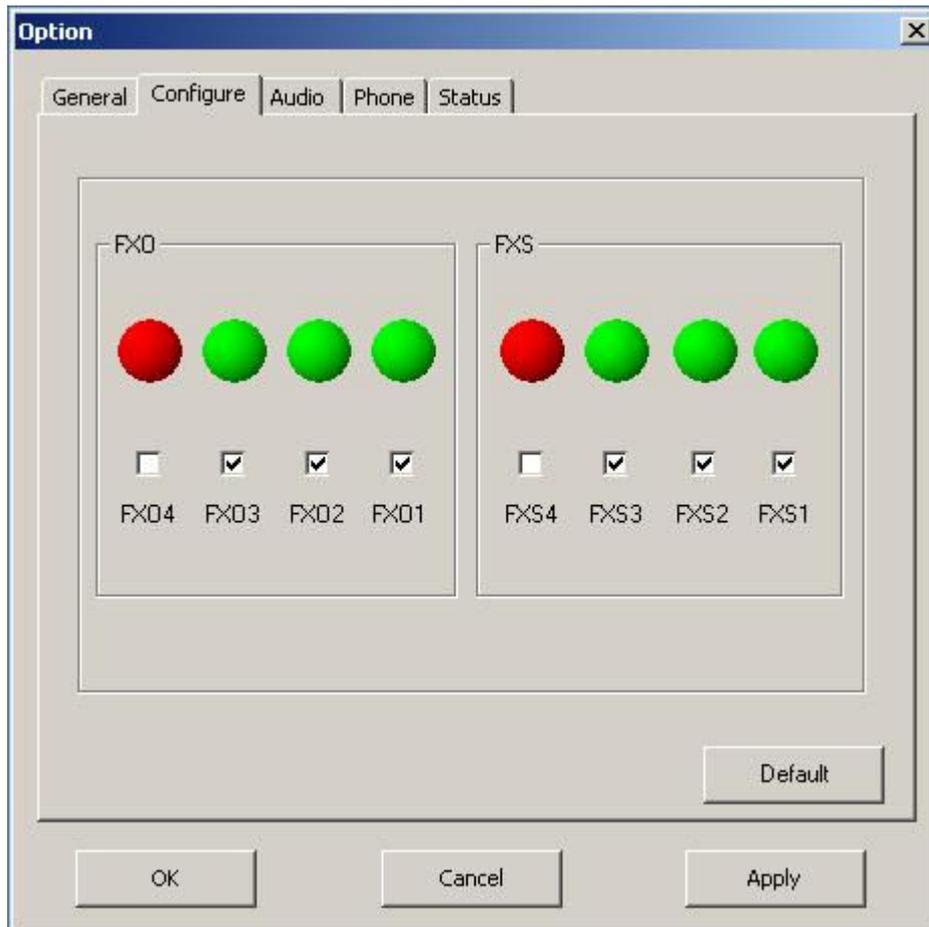
Account Name: ST-4004_3

Password: *****

Apply Cancel

7.2 Configure Setting Page

User can configure ST-4004 to enable or disable each FXS/FSO port. When user enables one FXO port, status LED of this port will be green. When this port is enabled, ST-4004 will monitor whether the port has a real landline connection to CO side. However, the port doesn't work if user disables the port (red status LED) even there is a physical connection to CO side. When user enables one FXS port, status LED of this port will be green and Skype account for this port will work. However, ST-4004 will set this port as busy status if this port is disabled even Skype account is set.



FXS: Foreign Exchange Station which can connect with analog telephone or PBX PSTN card.

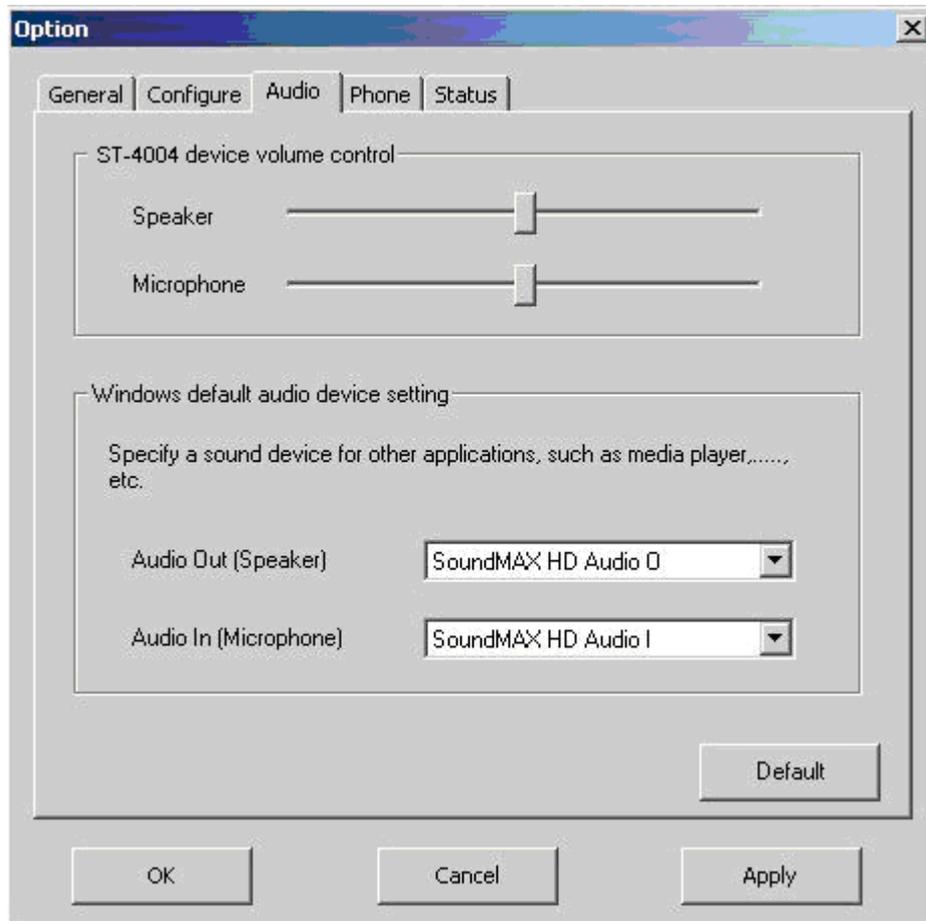
FXO: Foreign Exchange Office which can connect with landline (PSTN) or PBX extension card.

User can enable or disable FXO1~ FXO4 and FXS1~to FXS4 ports separately.

【Notice】 It is strongly recommended that user enables all FXS/FXO ports for first time setup. If user doesn't enable FXO for one port, ST-4004 can't detect whether there is a landline connected or not even there is a real physical connection. If user doesn't enable FXS for one port, ST-4004 will disable the corresponding Skype account for that port.

7.3 Audio Setting Page

In Audio setting page, user can change audio settings including ST-4004 device volume control and Windows default audio device setting.



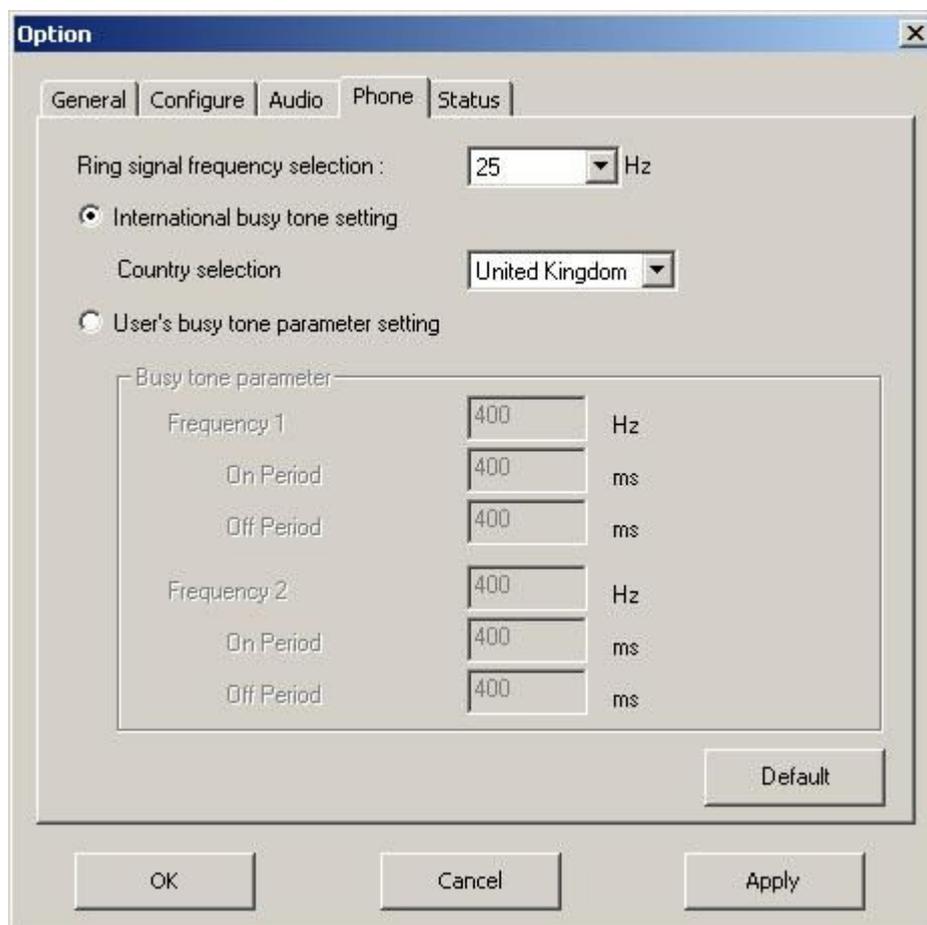
ST-4004 device volume control: User can individually adjust the speaker and the microphone volume of ST-4004. Once the change is made, the same change will be applied for four ports. To adjust the audio wave input/output volume, drag the Microphone/speaker volume scroll bar.

【Note】 If user attempts to change ST-4004 volume from Sounds and Audio Devices in control panel, ST-4004 program will adjust the volume to its default value. If user attempts to change ST-4004's microphone volume from Sounds and Audio Devices in control panel and the volume exceeds ST-4004's default value, ST-4004 will adjust the volume to its maximum value.

Windows default audio device setting: User can select an audio device for other Windows application including audio in and audio out device. Some USB audio devices might change Windows default audio device. With this GUI, user can easily change Windows default audio device for different applications. This setting will synchronize with system's audio setting.

7.4 Phone Setting Page

This page provides the related configurations about phone settings, such as Ring signal frequency selection and International busy tone setting which includes Country selection and User's busy tone parameter setting as below.



1. **Ring signal frequency selection:** Here supports four types of ring signal frequency, 20Hz, 25Hz, 30Hz & 50 Hz. User can choose a proper ring signal frequency according to the ring frequency of the phone user adopts. Usually the ring signal frequency adopted in the U.S.A. is 20Hz. The ring signal frequency in Europe is 25Hz. The ring signal frequency adopted by the major countries in the world ranges from 20 to 50Hz. The default setting is 25Hz.

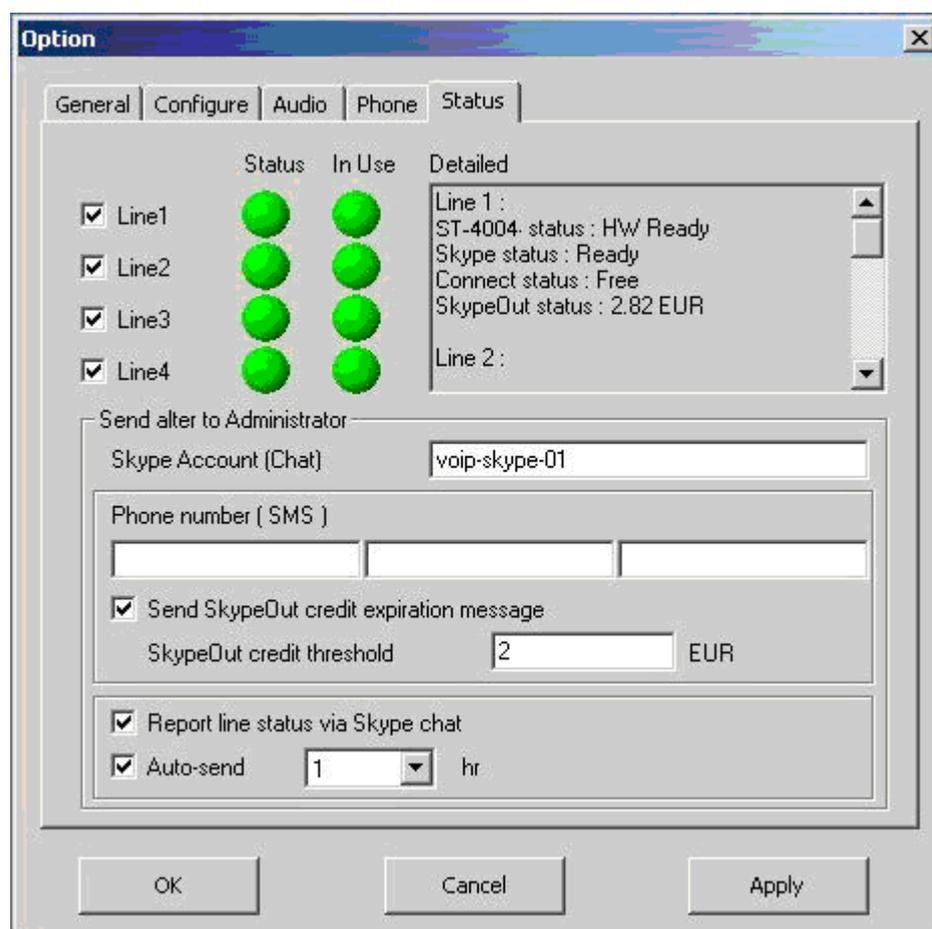
2. **International Busy Tone Setting:** User can choose user's living country from country selection list to get the familiar busy tone. When user can't find the living country from the list, user can configure the busy tone parameters themselves if they know the appropriate setting, and then click **"OK"**.

By selecting a country, the device will activate the specific busy tone frequency and cycle adopted by local Public Switched Telephone Networks in that country. Sometimes, the connecting PBX doesn't have the exact busy tone parameter as defined in user's country. For this case, user might encounter busy tone detection and unfamiliar busy tone problems even selecting user's country. User can configure the busy tone parameters themselves if they know the appropriate setting. Enable user's busy tone parameter setting option as below figure and fill in appropriate parameters, and then click **"OK"**. The parameter will be saved and active.

The default international busy tone country setting is decided by the **"Select Setup Language"** selection when ST-4004 is installed. For example, when user selects English, the default country will be United Kingdom. ST-4004 supports busy tone for 23 countries now.

7.5 Status Setting Page

This page shows all status of 4 ports in order to let your administrator manage effectively. ST-4004 will send the line status (H/W & S/W status, Skype status, Connect status and SkypeOut credit) to your administrator as below.



Status

Green: Skype Online

Red: Skype Offline, Do Not Disturb or use Skype phone call

In Use

Red indicates a Skype call or a landline call is undergoing.

Green indicates this line is ready for use.

Detailed information

Administrator can view status per port. If administrator checks box of "Line1", there will show Line1 detailed status. User can check all boxes to know four ports status.

Detailed information includes:

1. ST-4004 status: HW Ready or HW Fail.
2. Skype status: Ready, Log out, DND, Can not login or Off line.
3. Connect status: Free, Busy, Incoming PSTN Call, Incoming Skype call, Outgoing Skype call, or Outgoing SkypeOut call.
4. SkypeOut status: No SkypeOut authority, SkypeOut credit expired or how much credit does the line have.

Send alert to Administrator

ST-4004 can send messages to the administrator via Skype chat or SMS (Short Message Service) to inform some critical events.

Skype Account (chat): Input a Skype account which ST-4004 will send an alert message to.

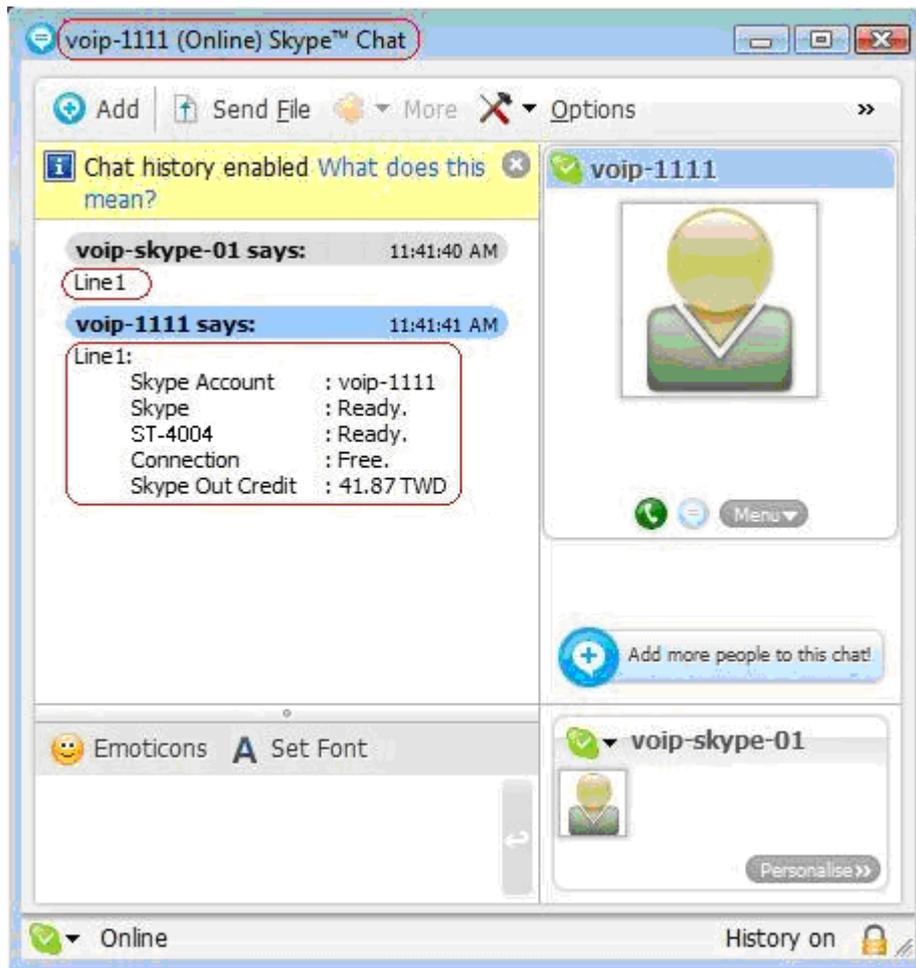
Phone number (SMS): When SkypeOut credit expires or landline is not plugged in ST-4004 FSO port, ST-4004 will send a SMS message to these phone numbers.

SkypeOut credit: After checking the box of “Send SkypeOut credit expiration message”, user can set SkypeOut credit threshold for sending warning message.

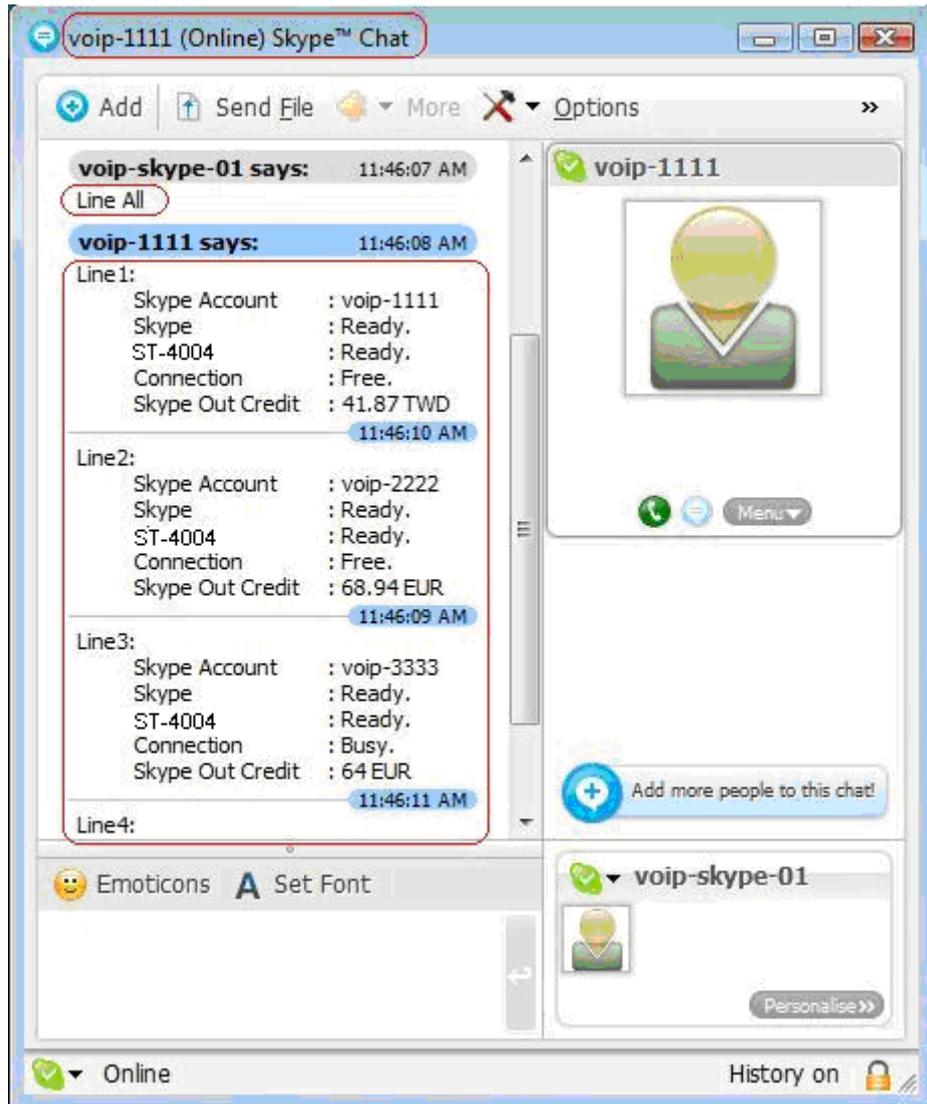
Report line status via Skype chat: After checking the box, ST-4004 will send line status to administrator’s Skype account based on administrator’s command. For example, administrator sends command “Line1” to ST-4004 and ST-4004 will reply line1 detailed status.

Auto-send: After checking the box, ST-4004 will automatically send four line’s detailed status to administrator by a fixed time. The default setting is 24 hours.

【Example】1. After administrator used voip-skype-01 Skype account to send a command “Line1” to voip-1111 Skype account in ST-4004, ST-4004 will report line1 detailed status to administrator as below.



2. After administrator used voip-skype-01 Skype account to send a command "Line All" to voip-1111 Skype account in ST-4004, ST-4004 will report all lines detailed status to administrator as below.



8. ST-4004 Administrator Web Management

8.1 Administrator Login

Open an internet browser and type <http://localhost:8080> or ST-4004 Server PC 's IP (like <http://192.168.33.197:8080>) in the address bar of the browser. This will open a "Welcome to ST-4004 platform" page. Then user can login by typing user name and password. The default value for both "**User Name**" and "**Password**" are "**admin**". If the administrator doesn't want to type User name and Password every time when he/she enters the welcome page, please check the "**Remember me**" box.

Welcome to ST-4004 Platform

User Login

User Name

Password

Remember me

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【Note】 Administrator can modify User name and Password from Profile tab and click **Save** button. Please refer to 8.2.1 for details.

8.2 Administrator Web Page

In this page, administrator can have below options.

- Users: Add, delete, or modify user account.
- Phonebook: Add, delete, or modify public phonebook.
- Call Log: View all call logs.
- Tool: Import or export phonebook and call log.
- Profile: Modify administrator's information.
- Logout: Administrator logs out.

Welcome to ST-4004 Platform

Users Phonebook Call Log Tool Profile Logout

Welcome Admin 3/12/2007

User List

All Show 10 page Add User Delete User Pages: 1/0 Goto Page:

User Name ▲	User ID	User Type	Contact	Comment
-------------	---------	-----------	---------	---------

Total: 0 Pages: 1/0 Goto Page:

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8.2.1 View & Modify Administrator's Information

Click **Profile** at the top panel, administrator can view administrator's information.

Welcome to ST-4004 Platform

Users Phonebook Call Log Tool Profile Welcome Admin 3/12/2007 Logout

Profile

*User Name

*UserID

*Password

*Confirm Password

User Type

Comments

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User can modify User name and Password from **Profile** and click **Save** button.

8.2.2 Administrator Logout

Click **Logout** button at the right top corner of the screen to logout.

Welcome to ST-4004 Platform

Users Phonebook Call Log Tool Profile **Welcome Admin** [Logout](#)
3/12/2007

User List

All Show page Pages: 1/0 Goto Page:

	<u>User Name</u> ▲	<u>User ID</u>	User Type	Contact	Comment
--	--------------------	----------------	-----------	---------	---------

Total: 0 Pages: 1/0 Goto Page:

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8.3 User Account Management

Click **Users** at the top panel, administrator can view the list of all users.

Welcome to ST-4004 Platform

Logout
Welcome Admin
3/12/2007

Users Phonebook Call Log Tool Profile

User List

All Show 10 page Add User Delete User Pages: 1/1 Goto Page: 1

	User Name	User ID	User Type	Contact	Comment
<input checked="" type="checkbox"/>	1 Judy	101	Normal User	0	
<input checked="" type="checkbox"/>	2 Alice	102	Normal User	0	

Total: 2 Pages: 1/1 Goto Page: 1

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- All: Check **All** box to select all users.
- Show 10/20/50 Page: Show 10, 20, or 50 users in one page.
- User Type: There are two kinds of users: **Normal User** and **Administrator**.

Administrator can sort the list by clicking “**User Name**” or “**User ID**” tab.

8.3.1 Add User

Click **Users** at the top panel and then click the **Add User** button to add an user.

User must log in as an administrator to add user accounts. The required information includes **User Name**, **User ID** and **Password**. Every user can use his/her **User Name** to login to manage his/her own private phonebook. Every user is assigned a unique **User ID**. When necessary changes are done, click **Save** button to save the configuration, or click **Save&Next** button to save the current entry and continue to add a new user.

The screenshot shows the 'Add User' form in the ST-4004 Platform. The form is titled 'Add User' and is located in the 'Users' section of the application. The form contains the following fields:

- *User Name: Judy (required, format: (a~z,A~Z,0~9,-_))
- *UserID: 101 (required, format: (0~9))
- *Password: (masked with dots)
- *Confirm Password: (masked with dots)
- *User Tpye: Normal User (dropdown menu)
- Comments: (text area)

At the bottom of the form, there are four buttons: Save, Save & Next, Reset, and Cancel. The footer of the page reads 'Copyright 2006 All rights reserved.'

* Fields marked with an asterisk are required information.

8.3.2 View & Modify User's Information

Click **Users** at the top panel, administrator can view the list of all users.

【Note】 After viewing the detailed information, administrator can decide to delete the user by clicking **Delete User** button. Or administrator can view the user's personal phone book by clicking **Phone Book** button.

8.3.3 Delete User

Click **Users** at the top panel and then check the box of the user whom administrator wants to delete. Click **Delete User** button to delete the user.

Welcome to ST-4004 Platform

Logout
Welcome Admin
3/12/2007

Users Phonebook Call Log Tool Profile

User List

All Show 10 page Add User Delete User Pages: 1/1 Goto Page: 1

	User Name ▲	User ID	User Type	Contact	Comment
<input type="checkbox"/>	1 Judy	101	Normal User	0	
<input checked="" type="checkbox"/>	2 Alice	102	Normal User	0	

Total: 2 Pages: 1/1 Goto Page: 1

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8.4 Public Phonebook Management

Click **Phonebook** at the top panel to view public contacts list.

The screenshot shows the 'Public Contact' management interface. At the top, a blue banner reads 'Welcome to ST-4004 Platform'. Below this is a navigation menu with 'Phonebook' highlighted. The main content area is titled 'Public Contact' and includes a table with columns: Skype Account, Nickname, Speed-Dial(#0), SkypeOut1(#1), SkypeOut2(#2), PSTN1(#3), PSTN2(#4), and Group. Above the table are controls for 'Add Contact', 'Del Contact', and pagination (Pages: 1/0, Goto Page: dropdown). A footer bar contains 'Total: 0', 'Pages: 1/0', 'Goto Page: dropdown', and 'Copyright 2006 All rights reserved.'

- Add Contact: Add new public contacts
- Del Contact: Delete public contacts
- Speed-Dial (#0): Contact's speed-dial number
- SkypeOut1 (#1): Contact's phone number 1 via SkypeOut.
- SkypeOut2 (#2): Contact's phone number 2 via SkypeOut.
- PSTN1 (#3): Contact's phone number 3 via PSTN.
- PSTN2 (#4): Contact's phone number 4 via PSTN.
- Group: There are 6 groups including Colleague, Customer, Family, Friend, Schoolmate and Others. Through an appropriate group setting, user can find a specific contact through Group searching.

Administrator can sort the list by clicking the tab for Skype Account, Nickname, Speed-Dial (#0), SkypeOut1 (#1), SkypeOut2 (#2), PSTN1 (#3), PSTN2 (#4) or Group.

8.4.1 Add Public Phonebook Contacts

Click **Phonebook** at the top panel, and then click the **Add Contact** button to add a contact.

The screenshot shows the 'Public Contact' management page in the ST-4004 Platform. The top navigation bar includes 'Users', 'Phonebook' (highlighted with a red box), 'Call Log', 'Tool', and 'Profile'. A 'Logout' link is visible in the top right corner. The user is logged in as 'Admin' on '3/12/2007'. The main content area is titled 'Public Contact' and features a table with columns: 'Skype Account', 'Nickname', 'Speed-Dial(#0)', 'SkypeOut1(#1)', 'SkypeOut2(#2)', 'PSTN1(#3)', 'PSTN2(#4)', and 'Group'. Above the table, there are controls for 'Add Contact' (highlighted with a red box), 'Del Contact', 'Pages: 1/0', and 'Goto Page:'. Below the table, there is a summary row showing 'Total: 0' and 'Pages: 1/0'. The footer contains the text 'Copyright 2006 All rights reserved.'

User needs to log in as an administrator to add public contacts. The required information includes **Skype account**, **Speed-Dial** and **Group**. When the changes are done, click **Save** button to save the configuration, or click **Save&Next** button to save the current entry and continue to add a new contact.

Welcome to ST-4004 Platform

[Logout](#)
Welcome Admin
 3/12/2007

Add Contact

*Skype Account	<input type="text" value="lojuichen"/>	<small>(Skype account or SkypeOut number)</small>
Nickname	<input type="text" value="Apple"/>	
*Speed Dial	<input type="text" value="117"/>	<small>(0~9 only)</small>
SkypeOut 1	<input type="text" value="0088635123456"/>	<small>(0~9,+,* only)</small>
SkypeOut 2	<input type="text" value="00886910123456"/>	<small>(0~9,+,* only)</small>
PSTN 1	<input type="text" value="9*035123456"/>	<small>(0~9,* only)</small>
PSTN 2	<input type="text" value="9*0910123456"/>	<small>(0~9,* only)</small>
Delay Time	<input type="text" value="2"/> second	<small>(Delay time for each *)</small>
E-mail	<input type="text"/>	
E-mail	<small>(eg: username@yahoo.com)</small>	
*Group	<div style="border: 1px solid black; padding: 2px;"> <input type="button" value="Others"/> <ul style="list-style-type: none"> <input checked="" type="button" value="Colleague"/> <input type="button" value="Customer"/> <input type="button" value="Family"/> <input type="button" value="Friend"/> <input type="button" value="Schoolmate"/> <input type="button" value="Others"/> </div>	

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1. Maximum 32 characters for Skype account.
2. Maximum 20 characters for Nickname, Speed Dial, SkypeOut 1, SkypeOut 2, PSTN 1 or PSTN 2.
3. Delay time for each "*"key: Sometimes user needs to add a delay time for a landline call. For Example, phone number is 0*123456789 and delay time for each "*"key is 2 seconds. When ST-4004 dials above phone number, it will get a PSTN dial tone by dial "0" first, then add 2 seconds delay before dialing the destination phone number. There are options 1~9 seconds for each "*" .
4. Maximum 50 characters for E-mail address.
5. Group: There are 6 groups including Colleague, Customer, Family, Friend, Schoolmate and Others. Through an appropriate group setting, user can find a specific contact through Group searching.

8.4.2 View & Modify Public Phonebook

Click **Phonebook** at the top panel to manage public phonebook.

Public Contact

All Show 10 page Add Contact Del Contact Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1	lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Colleague

[Click for detail information](#)

Total: 1 Pages: 1/1 Goto Page: 1

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If administrator wants to modify contact's information, click user's Skype account. Any information can be modified except the Skype Account. When the modification is completed, click **Save** button to save the changes.

Contact Information

*Skype Account lojuichen (Skype account or SkypeOut number)

Nickname Apple

*Speed Dial 117 (number 0-9 only)

SkypeOut 1 0088635123456 (0-9,+,* only)

SkypeOut 2 00886910123456 (0-9,+,* only)

PSTN 1 9*035123456 (0-9,* only)

PSTN 2 9*0910123456 (0-9,* only)

Delay Time 2 second (Delay time for each *)

E-mail (eg: username@yahoo.com)

*Group Colleague

Save Delete Contact Cancel

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[Note] At contact information page, administrator can click **Delete Contact**

button to delete the contact.

8.4.3 Delete Public Phonebook Contacts

Click **Phonebook** at the top panel and click the check box before the user. Then click **Del Contact** button to delete the user if administrator wants to delete this user.

The screenshot shows the 'Public Contact' management interface. At the top, there is a blue header with 'Welcome to ST-4004 Platform' and a 'Logout' link. Below this is a navigation bar with 'Users', 'Phonebook', 'Call Log', 'Tool', and 'Profile' tabs. The 'Phonebook' tab is selected. On the right, it says 'Welcome Admin' and '3/12/2007'. The main content area is titled 'Public Contact'. It includes a search bar with 'All Show 10 page', an 'Add Contact' button, a 'Del Contact' button (highlighted with a red box), and 'Pages: 1/1' and 'Goto Page: 1' dropdowns. Below this is a table with columns: 'Skype Account', 'Nickname', 'Speed-Dial(#0)', 'SkypeOut1(#1)', 'SkypeOut2(#2)', 'PSTN1(#3)', 'PSTN2(#4)', and 'Group'. The first row contains a checked checkbox, the number '1', the name 'lojuichen', and various phone numbers. At the bottom, there is a summary bar with 'Total: 1', 'Pages: 1/1', and 'Goto Page: 1' dropdown. The footer contains the text 'Copyright 2006 All rights reserved.'

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group	
<input checked="" type="checkbox"/>	1	lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Others

8.5 Call Log

Click **Call Log** at the top panel to view detailed call record list of all users.

Welcome to ST-4004 Platform

Logout

Users Phonebook **Call Log** Tool Profile Welcome Admin 3/12/2007

Call Logs

From Mar / 01 / 2007 to Mar / 12 / 2007 Retrieve

Show 10 page Pages: 1/1 Goto Page: 1

	Date	User ID	Contact	Direction	Type	Duration	Cost
1	2007-03-12 16:54:08		judy.lo.	incoming	skypecall	00:00:07	
2	2007-03-12 16:27:15	0	lojuichen	outgoing	skypecall	00:13:10	
3	2007-03-12 16:26:45	102	xxxxxtest	outgoing	skypecall	00:10:47	
4	2007-03-12 16:16:43	101	+886800024365	outgoing	skypeout	00:00:31	EUR
5	2007-03-12 16:03:15	101	blue.color	outgoing	skypecall	00:02:26	
6	2007-03-12 16:01:06	101	echo123	outgoing	skypecall	00:00:47	

Total: 6 Pages: 1/1 Goto Page: 1

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- Retrieve: Get call logs in a period
- Direction: Incoming call or outgoing call.
- Type: Skype, SkypeOut

8.6 Tool

User must log in as an administrator to export or import data and backup call logs. Then click **Tool** at the top panel.

The screenshot shows the 'Import / Export Contact File' page in the ST-4004 Platform. The page has a blue header with 'Welcome to ST-4004 Platform' and a navigation menu with 'Users', 'Phonebook', 'Call Log', 'Tool', and 'Profile'. The 'Tool' menu item is selected. The page title is 'Import / Export Contact File'. There are three main sections: 'Export Data to an Excel File:', 'Import Data from an Excel File:', and 'Backup Call log:'. The 'Export Data to an Excel File:' section has three checkboxes: 'All Users' Information', 'Public Contacts', and 'Private Contacts', with a dropdown menu set to 'All'. An 'Export' button is to the right. The 'Import Data from an Excel File:' section has a text input field and a 'Browse...' button, with an 'Import' button to the right. The 'Backup Call log:' section has 'From' and 'to' date pickers set to 'Mar / 01 / 2007' and 'Mar / 12 / 2007' respectively, with a 'Backup' button to the right. The footer contains 'Copyright 2006 All rights reserved.'

Export Data to an Excel File: Only supports Excel file format now.

Administrator can use this function to export contacts data to an excel file for easier modification and then use Import Data from an Excel File function to upload to ST-4004 for use. Check the boxes of **All Users' Information**, **Public Contacts**, or **Private Contacts** which administrator needs and then click **Export** button to export data to a file.

Import Data from an Excel File: Only supports Excel file format now.

Administrator can use this function to upload user information and contact phone book to ST-4004. Click **Browse** button to choose a file, then click **Import** button to import the file.

Backup Call log: Select the period which you are interested, then click **Backup** button to back up the call logs.

9. ST-4004 User Management

After administrator adds an account for one user, this user can use his/her own account to login ST-4004 via IE. Open user's IE browser and type in <http://IP:8080> (like <http://192.168.33.197:8080>) in the address bar of the browser. This will open the ST-4004 Welcome page. Please type user name and password to log in. If user doesn't want to type user name and password every time for login, please check the "**Remember me**" box.

9.1 User Setting Page

In this page, user has below options.

- **Phonebook:** Add, delete, or modify private phonebook. View public phonebook.
- **Call Log:** View personal call log.
- **Profile:** Modify user's information.
- **My Skype:** Get user's contact list from Skype for easy private phonebook editing.
- **FAQ:** Frequently asked questions.
- **Logout:** User logs out.

Welcome to ST-4004 Platform

Logout

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Private Contact

[Private Contact] [Public Contact]
 For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show 10 page Add Contact Del Contact Pages: 1/0 Goto Page: ▾

	Skype Account ▲	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
Total: 0 Pages: 1/0 Goto Page: ▾								

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9.1.1 View & Modify User's Information

Click **Profile** at the top panel, user can view and manage user's information.

Welcome to ST-4004 Platform

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Profile

*User Name	Judy
*UserID	101
*Password	●●●
*Confirm Password	●●●
User Type	Normal User
Comments	

Save

Copyright 2006 All rights reserved.

User can modify password and comments data form Profile page. Click **Save** button to save after modification.

9.1.2 User Logout

Click **Logout** button at the right-top corner of screen to log out.

Welcome to ST-4004 Platform

[Phonebook](#)
[Call Log](#)
[Profile](#)
[My Skype](#)
[FAQ](#)

[Logout](#)
 Welcome **Judy**
 3/12/2007

Private Contact

[\[Private Contact\]](#)
[\[Public Contact\]](#)
 For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show page

 Pages: 1/0 Goto Page:

	Skype Account ▲	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
Total: 0 Pages: 1/0 Goto Page: <input type="text"/>								

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9.2 Private Phonebook Management

Click **Phonebook** at the top panel to view private contacts list.

Welcome to ST-4004 Platform

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Private Contact

Private Contact Public Contact

For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show 10 page Add Contact Del Contact Pages: 1/0 Goto Page: [dropdown]

Skype Account Nickname Speed-Dial(#0) SkypeOut1(#1) SkypeOut2(#2) PSTN1(#3) PSTN2(#4) Group

Total: 0 Pages: 1/0 Goto Page: [dropdown]

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- **Public Contact:** User can view public contact list.
- **Private Contact:** User can add, delete or edit his/her own contact list in the private phonebook.
- **Add Contact:** Add new private contacts.
- **Del Contact:** Delete private contacts.
- **Speed-Dial (#0):** Contact's speed-dial number
- **SkypeOut1 (#1):** Contact's phone number 1 via SkypeOut.
- **SkypeOut2 (#2):** Contact's phone number 2 via SkypeOut.
- **PSTN1 (#3):** Contact's phone number 3 via PSTN.
- **PSTN2 (#4):** Contact's phone number 4 via PSTN.
- **Group:** There are six groups including Colleague, Customer, Family, Friend, Schoolmate and Others.

User can sort the list by clicking the tab of Skype Account, Nickname, Speed-Dial (#0), SkypeOut1 (#1), SkypeOut2 (#2), PSTN1 (#3), PSTN2 (#4) or Group.

9.2.1 Add Private Contacts

Click **Phonebook** at the top panel and choose **Private Contact**, then click **Add Contact** button to add contacts.

Welcome to ST-4004 Platform

[Phonebook](#)

[Call Log](#)

[Profile](#)

[My Skype](#)

[FAQ](#)

[Logout](#)
Welcome **Judy**

3/12/2007

Private Contact

Private Contact [Public Contact]

For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show page

[Add Contact](#)

[Del Contact](#)

Pages: 1/0

Goto Page:

	Skype Account ▲	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
--	-----------------	----------	----------------	---------------	---------------	-----------	-----------	-------

Total: 0

Pages: 1/0

Goto Page:

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User needs to fill in required information like **Skype Account**, **Speed-Dial** and **Group**. When user finishes editing, click **Save** button to save the configuration, or click **Save&Next** button to save the current entry and continue to add a new private contact.

Welcome to ST-4004 Platform

Phonebook

Call Log

Profile

My Skype

FAQ

Welcome Judy

[Logout](#)

3/12/2007

Add Contact

*Skype Account	<input type="text" value="blue.color"/>	(Skype account or SkypeOut number)
Nickname	<input type="text" value="Blue"/>	
*Speed Dial	<input type="text" value="999"/>	(0~9 only)
SkypeOut 1	<input type="text"/>	(0~9,+,* only)
SkypeOut 2	<input type="text"/>	(0~9,+,* only)
PSTN 1	<input type="text"/>	(0~9,* only)
PSTN 2	<input type="text"/>	(0~9,* only)
Delay Time	<input type="text" value="2"/> second	(Delay time for each *)
E-mail	<input type="text"/>	(eg: username@yahoo.com)
*Group	<input type="text" value="Others"/> <input type="text" value="Colleague"/> <input type="text" value="Customer"/> <input type="text" value="Family"/> <input type="text" value="Friend"/> <input type="text" value="Schoolmate"/> <input type="text" value="Others"/>	

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1. Maximum 32 characters for a Skype account.
2. Maximum 20 characters for Nickname, Speed Dial, SkypeOut 1, SkypeOut 2, PSTN 1 or PSTN 2.
3. Delay time for each "*"key: Sometimes user needs to add a delay time for a regular landline call. For Example, phone number is 0*123456789 and the delay time for each "*"key is 2 seconds. When ST-4004 dials above phone number, it will get a PSTN dial tone by digit "0" first, then add 2 seconds delay before dialing the destination phone number. Each "*" can stand for 1~9 seconds.
4. Maximum 50 characters for E-mail address.
5. Group: There are 6 groups including Colleague, Customer, Family, Friend, Schoolmate and Others. With appropriate group setting, user can find specific contact through Group searching.

9.2.2 View & Modify Private Contacts

Click **Phonebook** at top panel, and then click **Private Contact** to view private phonebook.

The screenshot shows the 'Private Contact' page in the ST-4004 Platform. The header includes 'Welcome to ST-4004 Platform' and a navigation menu with 'Phonebook', 'Call Log', 'Profile', 'My Skype', and 'FAQ'. The user is logged in as 'Judy' on '3/12/2007'. The main content area is titled 'Private Contact' and includes a link to '[Public Contact]'. Below this, there is a search bar and a list of contacts. The first contact is 'blue.color' with a nickname of 'Blue' and a speed-dial number of '999'. A 'Click for detail information' link is present below the contact. At the bottom, there is a pagination bar showing 'Total: 1' and 'Pages: 1/1'.

If user wants to modify contact's information, click user's Skype account. Any information can be modified except the Skype account. When the modification is completed, click **Save** button to save the changes.

The screenshot shows the 'Contact Information' page in the ST-4004 Platform. The header is the same as the previous screenshot. The main content area is titled 'Contact Information' and contains a form for editing contact details. The form fields are: '*Skype Account' (blue.color), 'Nickname' (Blue), '*Speed Dial' (999), 'SkypeOut 1', 'SkypeOut 2', 'PSTN 1', 'PSTN 2', 'Delay Time' (2 second), 'E-mail', and '*Group' (Friend). Below the form are three buttons: 'Save', 'Delete Contact', and 'Cancel'. The footer shows 'Copyright 2006 All rights reserved.'

9.2.3 Delete Private Contacts

Click **Phonebook** at the top panel, then click **Private Contact** to view private contacts list. Check the boxes before the contacts which user wants to delete and click **Del Contact** button to delete.

Welcome to ST-4004 Platform

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Private Contact

[Private Contact] [Public Contact]
For example, to dial private contact: "101" + "*" + "Speed-Dial" + "#"

All Show 10 page Add Contact **Del Contact** Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input checked="" type="checkbox"/>	blue.color	Blue	999					Friend

Total: 1 Pages: 1/1 Goto Page: 1

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9.2.4 View Public Contacts

Click **Phonebook** at the top panel, and then click **Public Contact** to view public contacts list. Only administrator can modify public contacts information.

Welcome to ST-4004 Platform

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Public Contact

[Private Contact] **[Public Contact]**
For example, to dial public contact: "0" + "*" + "Speed-Dial" + "#"

All Show 10 page Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/>	lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Colleague

Total: 1 Pages: 1/1 Goto Page: 1

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9.3 View User's Call Log

Click **Call Log** at the top panel to view personal call log.

Welcome to ST-4004 Platform

Phonebook **Call Log** Profile My Skype FAQ Welcome judy 3/12/2007

Call Logs

From Mar / 01 / 2007 to Mar / 12 / 2007 Retrieve

Show 10 page Pages: 1/1 Goto Page: 1

	Date	User ID	Contact	Direction	Type	Duration	Cost
1	2007-03-12 16:16:43	101	+886800024365	outgoing	skypeout	00:00:31	EUR
2	2007-03-12 16:03:15	101	blue.color	outgoing	skypecall	00:02:26	
3	2007-03-12 16:01:06	101	echo123	outgoing	skypecall	00:00:47	

Total: 3 Pages: 1/1 Goto Page: 1

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- **Retrieve:** Get call logs in a period.
- **Direction:** Incoming or Outgoing call.
- **Type:** Skype, SkypeOut.

9.4 My Skype

Click **My Skype** at the top panel. Click **Connect Skype** and then **Transfer to Phone Book** tabs to get Skype contacts from Skype and import the contacts to user's private phonebook for editing.

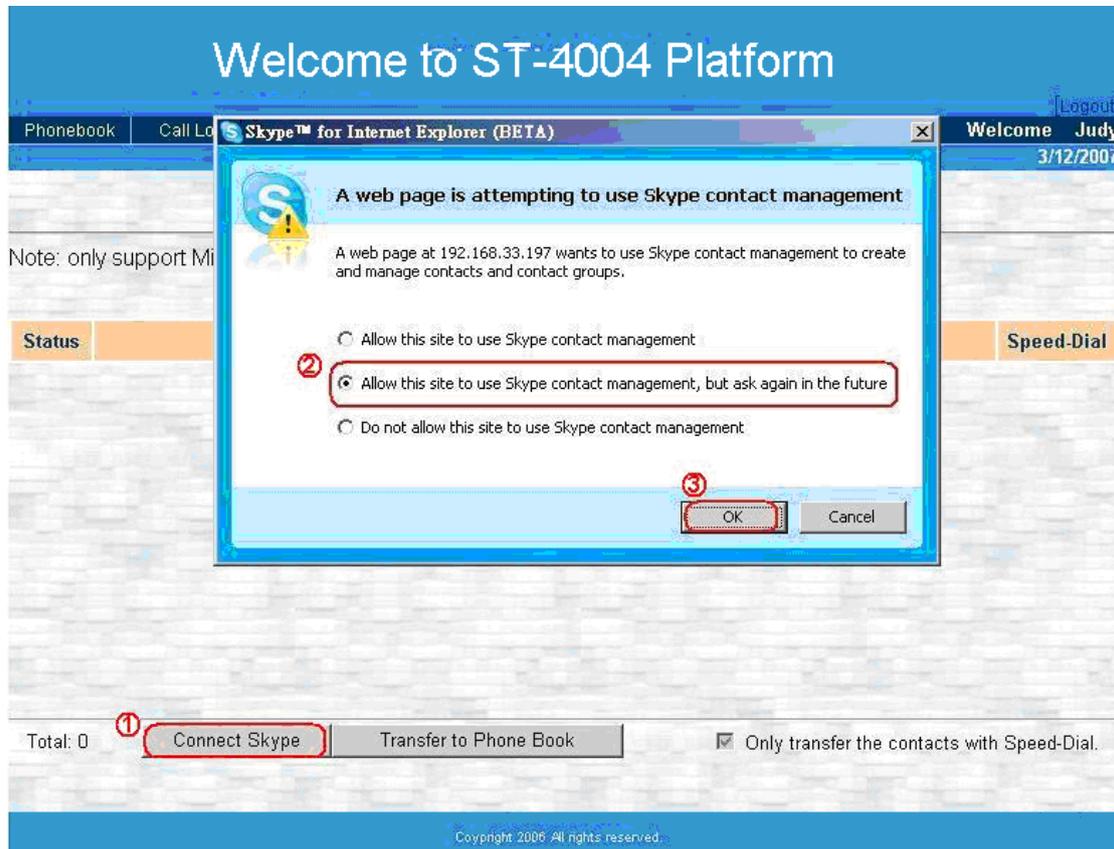
The screenshot displays the 'Welcome to ST-4004 Platform' interface. At the top, there is a navigation menu with 'Phonebook', 'Call Log', 'Profile', 'My Skype' (highlighted with a red box), and 'FAQ'. On the right, it says 'Welcome Judy' and '3/12/2007' with a 'Logout' link. Below the menu is the 'Skype Friends List' section. A note states: 'Note: only support Microsoft Internet Explorer and Skype 3.0 above now.' Below the note is a table with the following headers: 'Status', 'Full Name', 'Skype Account', and 'Speed-Dial'. The table body is currently empty. At the bottom of the table area, there is a 'Total: 0' label, two buttons 'Connect Skype' and 'Transfer to Phone Book' (both highlighted with red boxes), and a checkbox labeled 'Only transfer the contacts with Speed-Dial.' which is checked. The footer contains the text 'Copyright 2006 All rights reserved.'

For current software version, only transfer the Skype contacts with Speed-Dial to private phonebook.

9.4.1 How to get Skype contacts

Click **My Skype** at the top panel and then follow these steps to get Skype contacts from Skype.

Step 1: Click **Connect Skype** button.



Skype will invoke one warning window **“A web page is attempting to use Skype contact management”**.

Step 2: Select **“Allow this site to use Skype contact management”** or **“Allow this site to use Skype contact management, but ask again in the future”** and then click **OK** button.

Step 3: Click **Connect Skype** button again to get the contacts.

Welcome to ST-4004 Platform [Logout](#)

Phonebook Call Log Profile **My Skype** FAQ Welcome Judy 3/12/2007

Skype Friends List

Note: only support Microsoft Internet Explorer and Skype 3.0 above now.

Status	Full Name	Skype Account	Speed-Dial
--------	-----------	---------------	------------

Total: 0 **Connect Skype** Transfer to Phone Book Only transfer the contacts with Speed-Dial.

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Now the Skype contacts are shown as below.

Welcome to ST-4004 Platform [Logout](#)

Phonebook Call Log Profile **My Skype** FAQ Welcome Judy 3/12/2007

Skype Friends List

Note: only support Microsoft Internet Explorer and Skype 3.0 above now.

Status	Full Name	Skype Account	Speed-Dial
	voip-2222	voip-2222	Assign
	VOIP01	voip-1111	11
	judy.lo	judy.lo.	88
	Echo / Sound Test Service	echo123	00

Total: 4 **Connect Skype** Transfer to Phone Book Only transfer the contacts with Speed-Dial.

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9.4.2 Transfer Skype contacts to Private

Phonebook

After getting Skype contacts into Skype Friends list page, please click **Transfer to Phone Book** button to transfer contacts to private phonebook.

【Note】 Before transferring the contacts, user can click **Assign** to edit speed dial for each user. Speed dial number can be up to 20 digits.

Next window shows how many Skype contacts will be saved in private phonebook, and then click **OK** to save.



After finishing transfer contacts, the screen will show the transferred private contacts and user can have more editing.

Welcome to ST-4004 Platform [Logout](#)

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Private Contact

[Private Contact] [Public Contact]
 For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show 10 page Pages: 1/1 Goto Page: 1

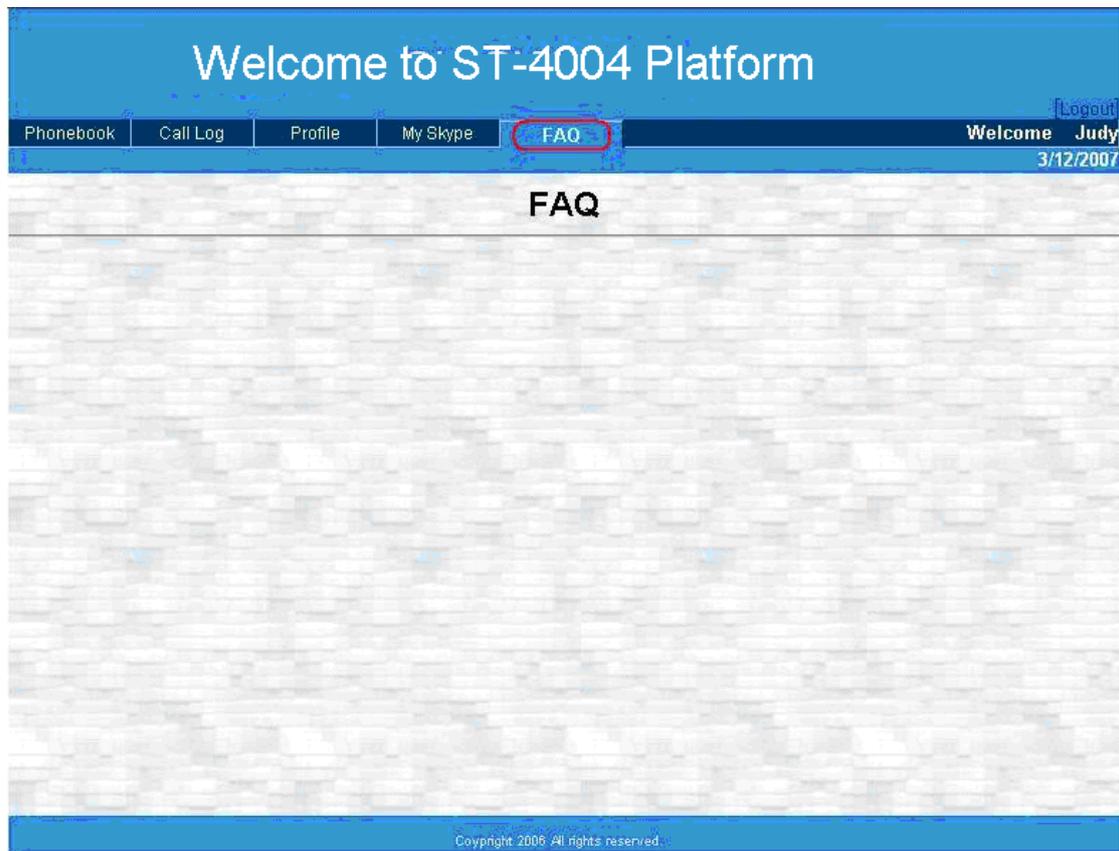
	Skype Account ▲	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1	00886800024365	Chinatrust	888					Others
<input type="checkbox"/> 2	blue_color	Blue	999					Friend
<input type="checkbox"/> 3	echo123	Echo / Sound Test Se	00					Others
<input type="checkbox"/> 4	judy_lo_	judy.lo	88					
<input type="checkbox"/> 5	voip-1111	VOIP01	11					

Total: 5 Pages: 1/1 Goto Page: 1

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9.5 FAQ

Click **FAQ** at the top panel to view frequently asked questions.



Q1: How can I use my private phonebook to make a Skype call?

A: Company's PBX needs to set a trunk number (for example 9) for ST-4004 FXS ports to make Skype calls.

Step 1: Press "9" key from extension phone to hunt an available Skype line.

Step 2: Find your contact's speed dial number and dial "User ID + * + Speed Dial + #". ST-4004 will guide you an example as below.

The User ID in the example is user's real ID.

Welcome to ST-4004 Platform

Logout | Welcome Judy | 3/12/2007

Phonebook | Call Log | Profile | My Skype | FAQ

Private Contact

[Private Contact] [Public Contact]
 For example, to dial private contact: "101" + "*" + Speed-Dial + "#"

All Show 10 page Add Contact Del Contact Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1	00886800024365	Chinatrust	888					Others
<input type="checkbox"/> 2	blue_color	Blue	999					Friend
<input type="checkbox"/> 3	echo123	Echo / Sound Test Se	00					Others
<input type="checkbox"/> 4	judy_lo	judy_lo	88					
<input type="checkbox"/> 5	voip-1111	VOIP01	11					

Total: 5 Pages: 1/1 Goto Page: 1

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Q2: How can I use public contact to make a Skype call?

A: Company's PBX needs to set a trunk number (for example 9) for ST-4004 FXS ports to make Skype calls.

Step 1: Press "9" key from extension phone to hunt an available Skype line.

Step 2: Find your contact's speed dial number and dial "0" + "*" + Speed Dial + "#". "0" can be omitted. ST-4004 will guide you an example as below.

Welcome to ST-4004 Platform

Logout | Welcome Judy | 3/12/2007

Phonebook | Call Log | Profile | My Skype | FAQ

Public Contact

[Private Contact] [Public Contact]
 For example, to dial public contact: "0" + "*" + Speed-Dial + "#"

All Show 10 page Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1	lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Colleague

Total: 1 Pages: 1/1 Goto Page: 1

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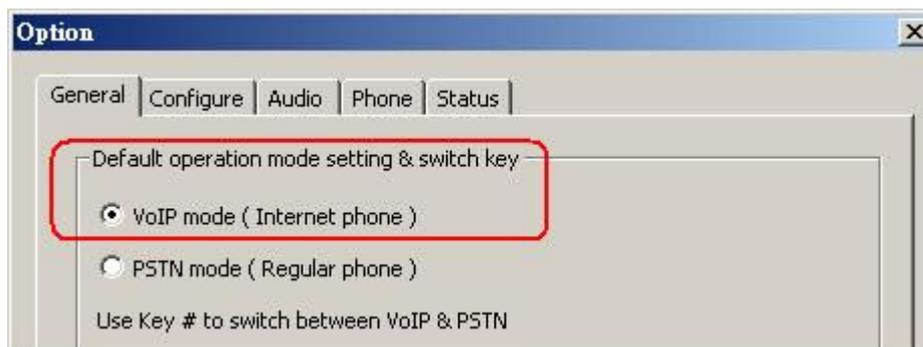
10. Using ST-4004

10.1 Make a Skype or a PSTN Call

Below is an example to show how to use ST-4004 to make a call.

【Example】 ST-4004 set up configuration

1. ST-4004 is connected to external ports of a PBX.
2. Set “0” as the PBX trunk number for landlines.
3. Set “9” as the PBX trunk number for Skype lines.
4. Default ST-4004 operation mode is VoIP mode.



5. User ID is 101.
6. The contact's (Blue) Speed-Dial is 999 as below Private Contact.

The screenshot shows the 'Welcome to ST-4004 Platform' interface. At the top, there are navigation tabs: 'Phonebook', 'Call Log', 'Profile', 'My Skype', and 'FAQ'. The 'Profile' tab is active, showing 'Welcome Judy' and the date '3/12/2007'. Below this is the 'Private Contact' section. It includes a search bar with a red box around the text '101* + * * * + Speed-Dial + * #'. Below the search bar are buttons for 'All', 'Show', 'Add Contact', and 'Del Contact'. A table lists contacts with columns for 'Skype Account', 'Nickname', 'Speed-Dial(#0)', 'SkypeOut1(#1)', 'SkypeOut2(#2)', 'PSTN1(#3)', 'PSTN2(#4)', and 'Group'. The contact 'blue.color' is highlighted with a red box, showing a Speed-Dial of 999 and a Group of 'Friend'. Other contacts include '00866800024365', 'echo123', 'judy.lo', and 'voip-1111'. At the bottom, there is a footer with 'Total: 5', 'Pages: 1/1', and 'Goto Page: 1'.

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/>	1 00866800024365	Chinatrust	888					Others
<input type="checkbox"/>	2 blue.color	Blue	999					Friend
<input type="checkbox"/>	3 echo123	Echo / Sound Test Se	00					Others
<input type="checkbox"/>	4 judy.lo	judy.lo	88					
<input type="checkbox"/>	5 voip-1111	VOIP01	11					

7. The contact's (Apple) Speed-Dial is 117 as below Public Contact.

Welcome to ST-4004 Platform

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Public Contact

[Private Contact] [Public Contact]

For example, to dial public contact: "0" + "*" + Speed-Dial + "#"

All Show 10 page Pages: 1/1 Goto Page: 1

Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
1 lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Colleague

Total: 1 Pages: 1/1 Goto Page: 1

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Make a Skype Call

1. Make a Skype call using Private Contact as following steps:

Step 1: Pick up an extension phone.

Step 2: Press "9" key from the phone keypad, then user will hear a Skype dial tone.

Step 3: Dial "101 * 999" (Dialing format: User ID + * + speed-dial number + #) keys from phone keypad to make a Skype call.

2. Make a Skype Call using Public Contact as following steps:

Step 1: Pick up an extension phone.

Step 2: Press "9" key from the phone keypad, then user will hear a Skype dial tone.

Step 3: Dial "* 117" (Dial format: 0 + * + speed-dial number, "0" can be omitted.) keys from phone keypad to make a Skype call.

Make a PSTN Call from the PBX ports with ST-4004

Make a PSTN call from the PBX ports with ST-4004 as following steps:

Step 1: Pick up an extension phone.

Step 2: Press "9" key from phone keypad, then user will hear a Skype dial tone.

Step 3: Press "#" key to switch to PSTN mode, and then user will hear the

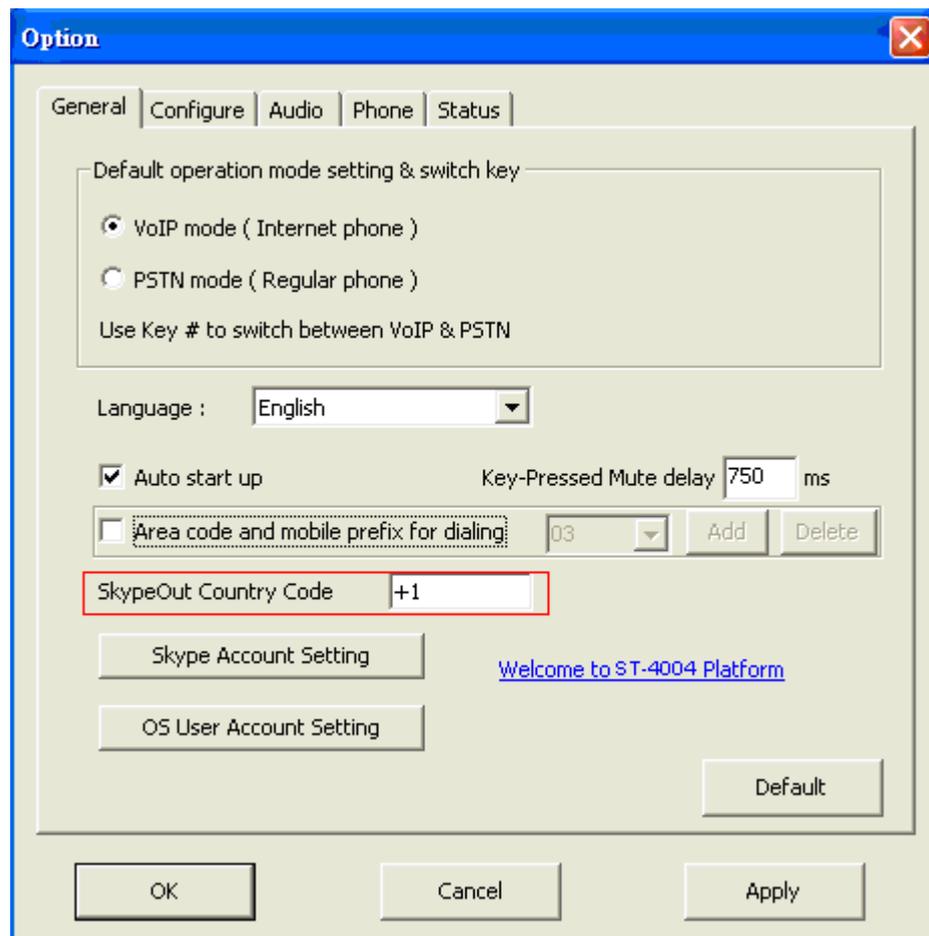
familiar PSTN dial tone. Make a PSTN call as user did in the past.

Make a SkypeOut Call

Step 1: Pick up an extension phone.

Step 2: Press "9" key from the phone keypad, then user will hear a Skype dial tone.

Step 3: Press a phone number such as 1-408-3456789 with a correct country code set as below.



10.2 Smart Dialing-Cheese Button

ST-4004 provides a smart dialing - Cheese Button function. User can edit own phonebook to add Skype contacts, SkypeOut, and PSTN numbers in below private contact table, then start to enjoy the convenience of smart dialing function whenever there is a bad Skype communication or the contact doesn't answer your call.

Through smart dialing function, user can quickly switch to a SkypeOut or PSTN call by pressing two keys through phone keypad during a Skype call

with a bad communication quality or the contact unavailable.

It is not necessary and prohibitive to hang up the current Skype call if user wants to use the smart dialing function. After pressing keys "# + (1, 2, 3 or 4)", user can either talk to the contact through SkypeOut or PSTN line.

The beauty of this smart call function is that user can continue the phone conversation without the efforts of looking for phone book and then making a call again.

Welcome to ST-4004 Platform

Logout

Phonebook Call Log Profile My Skype FAQ Welcome Judy 3/12/2007

Private Contact

[Private Contact] [Public Contact]

For example, to dial private contact: "101" + "*" + "Speed-Dial" + "#"

All Show 10 page Add Contact Del Contact Pages: 1/1 Goto Page: 1

	Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1	00886800024365	Chinatrust	888					Others
<input type="checkbox"/> 2	blue.color	Blue	999	001510...	0086987654321	002*151082 45064	0298765432 1	Friend
<input type="checkbox"/> 3	echo123	Echo / Sound Test Se	00					Others
<input type="checkbox"/> 4	judy.lo	judy.lo	88					
<input type="checkbox"/> 5	voip-1111	VOIP01	11					

Total: 5 Pages: 1/1 Goto Page: 1

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If user is a **“Normal User”**, user can only establish personal contacting information in **“Private Contact”**. **“Administrator”** user can edit public contacting information in **“Public Contact”**.

What does Cheese Button work?

- Press **”#1”**: Make a SkypeOut call with SkypeOut1 number.
- Press **”#2”**: Make a SkypeOut call with SkypeOut2 number.
- Press **”#3”**: Make a PSTN call with PSTN1 number.
- Press **”#4”**: Make a PSTN call with PSTN2 number.
- Press **”#0”**: Call contact’s Skype account.
- Press **”#”**: Whenever user presses **“#”** key, ST-4004 will search for next existing phone number in this contact table according to the ordering of phone number list to make the call.

For example, user wants to talk with “apple” and the possible procedures are as below.

Public Contact

[Private Contact] [Public Contact]

For example, to dial public contact: "0" + "*" + " " + Speed-Dial + "#"

All Show 10 page Pages: 1/1 Goto Page: 1

Skype Account	Nickname	Speed-Dial(#0)	SkypeOut1(#1)	SkypeOut2(#2)	PSTN1(#3)	PSTN2(#4)	Group
<input type="checkbox"/> 1 lojuichen	Apple	117	0088635123456	00886910123456	9*035123456	9*0910123456	Colleague

Total: 1 Pages: 1/1 Goto Page: 1

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1. Make a Skype call to “apple” by pressing “0 * 117 #” from phone keypad. “0” can be omitted. If Skype’s voice quality is not very good or Apple doesn’t answer the call, user can press #1 or #2 keys for a SkypeOut call or #3 or #4 keys for a PSTN call.
2. For example, user presses “#2” keys for SkypeOut2. ST-4004 will end the current call and dial 00886910123456 via SkypeOut directly.
3. If user presses ”#3” keys for PSTN1. ST-4004 will end the current call and then dial 035123456 via PSTN directly.

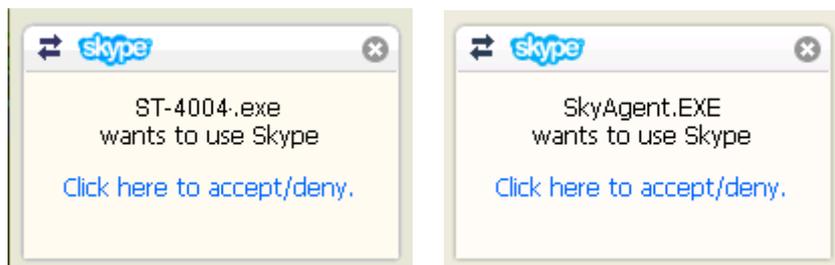
In the meanwhile, user also can dial “0 * 117 #” from phone keypad for Apple’s Skype call first. “0” can be omitted. If Skype voice quality is not good or Apple doesn’t answer the call, just press “#” key. ST-4004 will make SkypeOut1 call. Similarly, ST-4004 will end the earlier call and call SkypeOut2 when user presses “#” key again. User can press “#” in the same way until finding Apple to talk. User also can press “#0” keys to talk to Apple through Apple’s Skype account to save cost.

【Note】

1. If user does not set the Cheese Button contact table, pressing "#1 (2.3.4) will not have any effect.
2. When user wants to use Cheese Button function, user needs to press key "1, 2, 3, or 4" after "#" key within 3 seconds. Otherwise ST-4004 will call the next available Cheese button number.

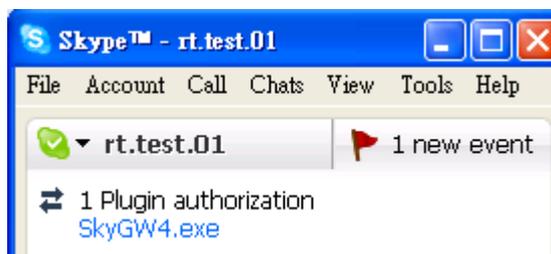
11. FAQs

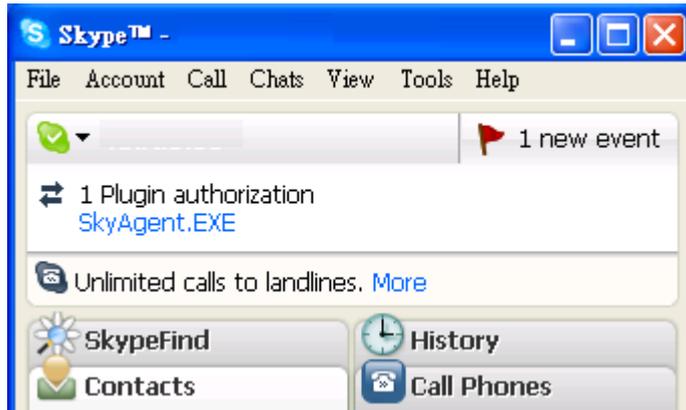
Q1: User needs to manually allow ST-4004 to access Skype if user gets one pop up window as below after ST-4004 and Skype version 3.6.0.248 or above are installed and launched. Otherwise ST-4004 can't be allowed to access Skype and work with Skype properly. The change is due to Skype's change on API access control after version 3.6.0.248 release.



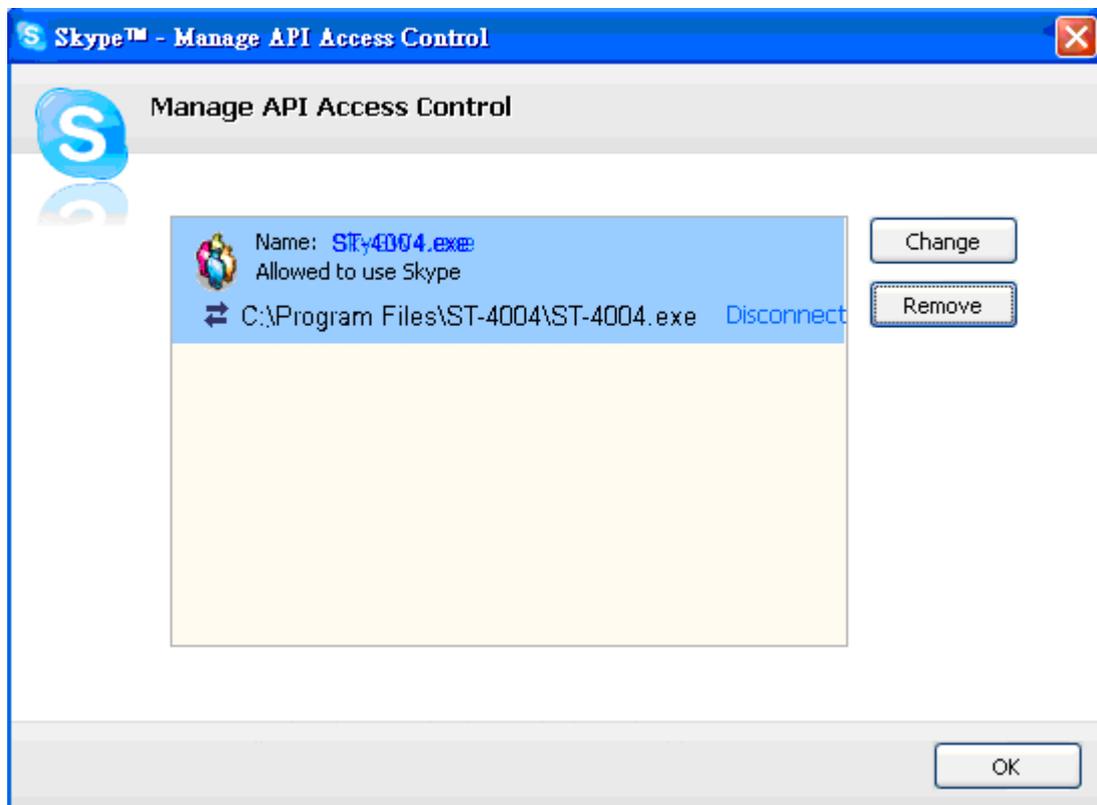
A: User can follow below procedures to manually allow ST-4004 to access Skype.

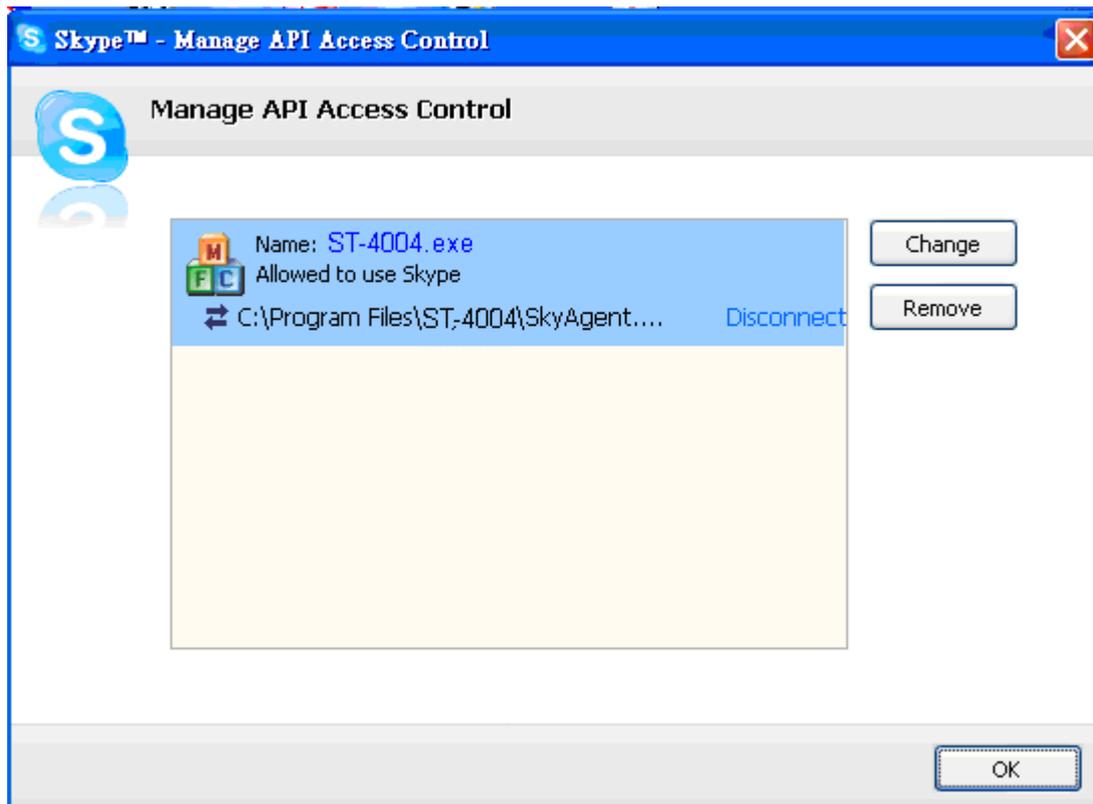
(a) After ST-4004 and Skype version 3.6.0.248 or above are installed and launched user might get above pop up window to ask user to accept or deny ST-4004 (or SkyAgent for ST-4004 sub Skype accounts) to access Skype. The pop up window just shows up for around 3 seconds. If user clicks the pop up window, there will be one new event and possible one plugin authorization for ST-4004 (or SkyAgent.exe) shown in Skype main window as below. User can click the new event if user doesn't see plugin authorization for ST-4004.exe (or SkyAgent.exe). Then plugin authorization for ST-4004.exe (or SkyAgent.exe) will appear.





(b) Click ST-4004.exe (or SkyAgent.exe) under one Plugin authorization, then one Skype “Manage API Access Control” window will pop up. Choose “Allow this program to use Skype” and click OK button.





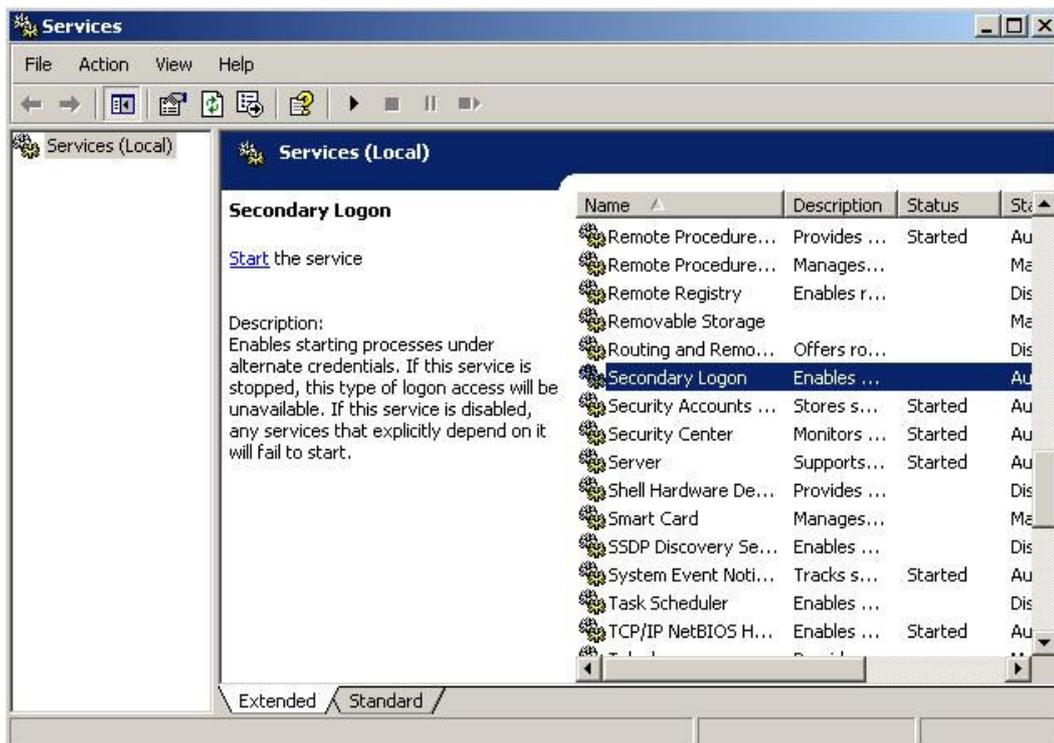
Q2 : What are the functions of these two DOS programs (ST-4004 Web Server & Tomcat) which are launched after completing the installation of the ST-4004 software?

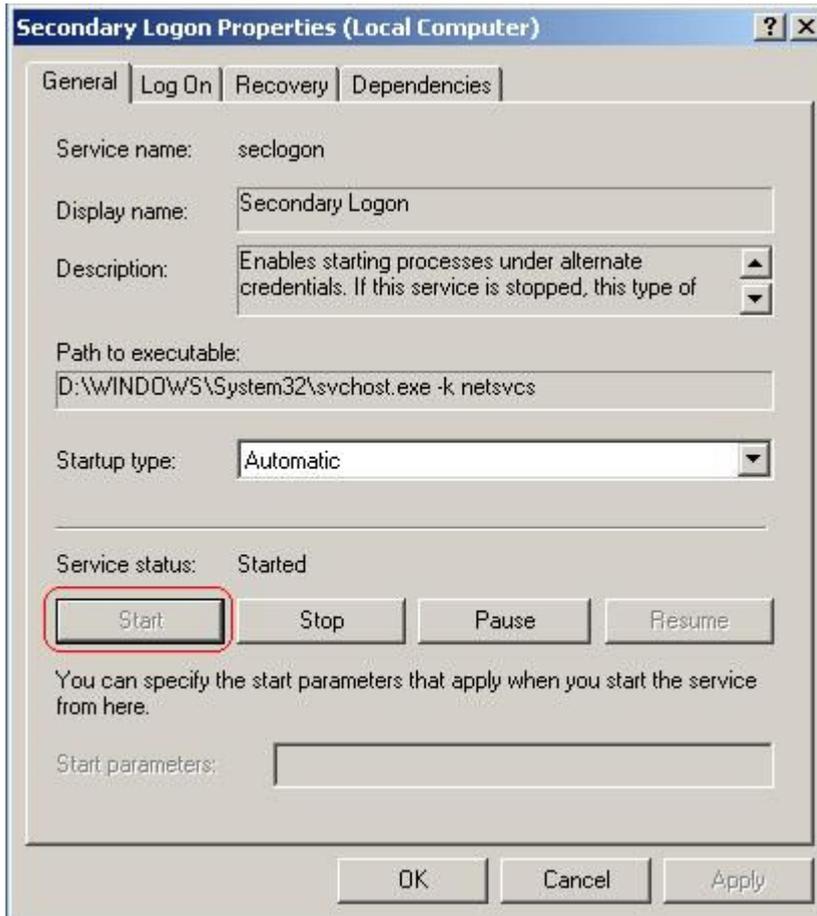
A: These two DOS programs are used for Web server management. Please do not close these two DOS programs when ST-4004 is still under operation.

Q3 : Why does not ST-4004 launch second Skype AP after completing the installation of ST-4004 software?

A: 1. Please make sure your ST-4004 server PC is installed legal Microsoft Windows XP software.
2. Please start secondary logon service in ST-4004 server PC as following steps:
Step 1. Select "**Control Panel**" from Windows start menu.
Step 2. Select "**Administrative Tools**".
Step 3. Select "**Services**".
Step 4. Double-click "**Secondary Logon**" for secondary logon properties window and click Start, then OK buttons to enable the service.







Q4: Why I still can't use ST-4004 after the hardware and software are successfully installed?

A: ST-4004 AP is launched and everything seems OK, but administrator can not use ST-4004 for Skype calls. For this case, administrator can configure Skype access control in **Privacy Option** as following steps.

Step 1. Select **Tools** from Skype main window.

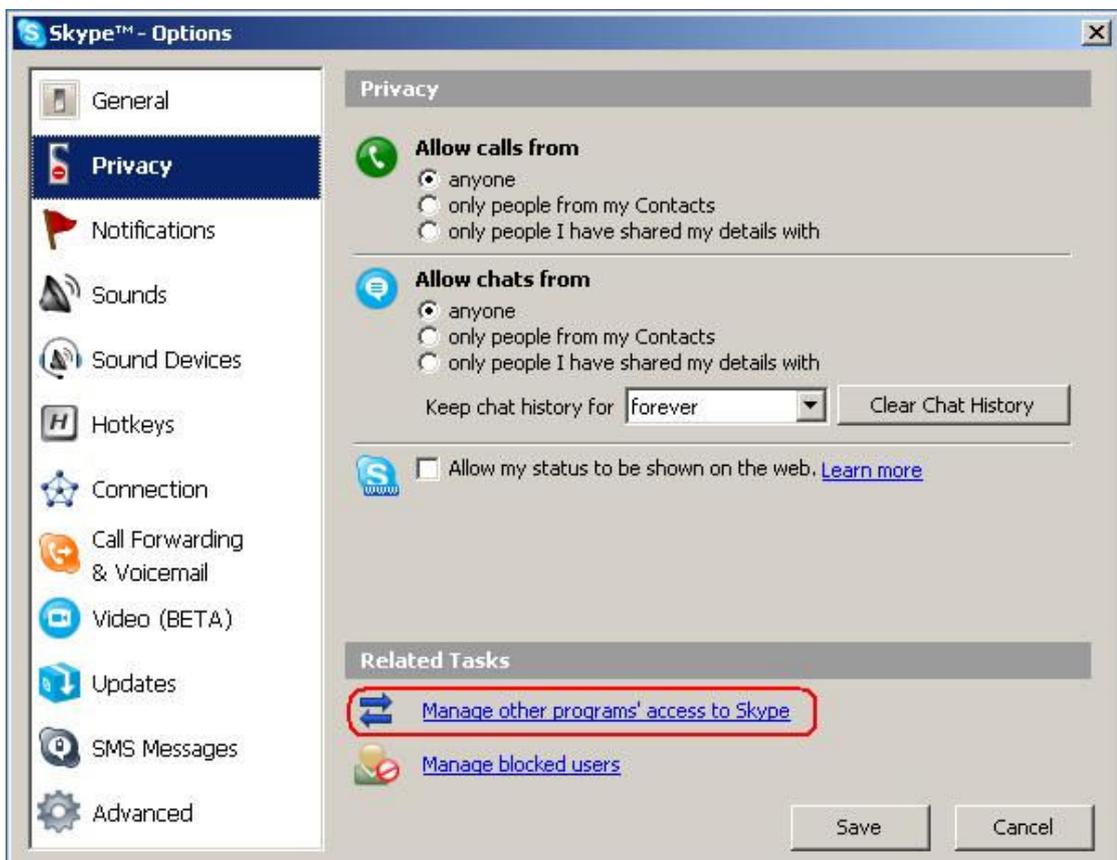
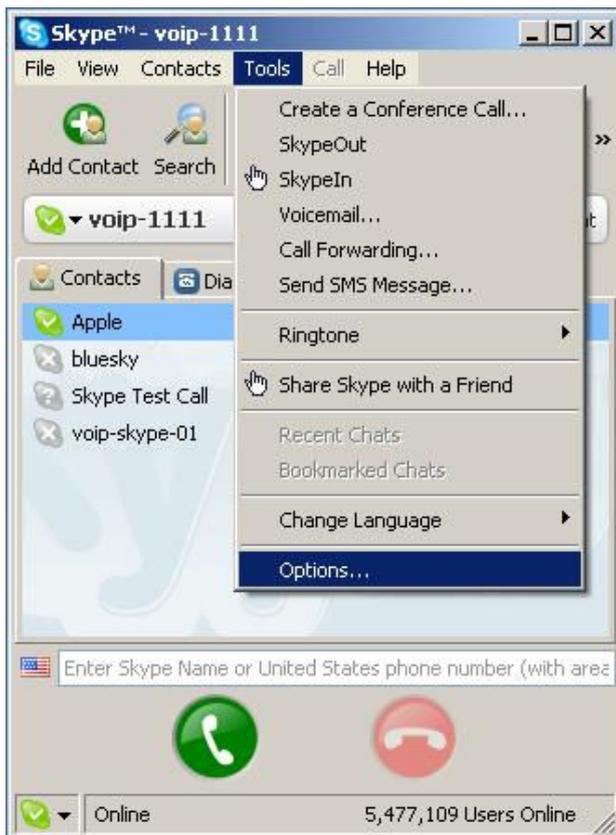
Step 2. Select **Options**.

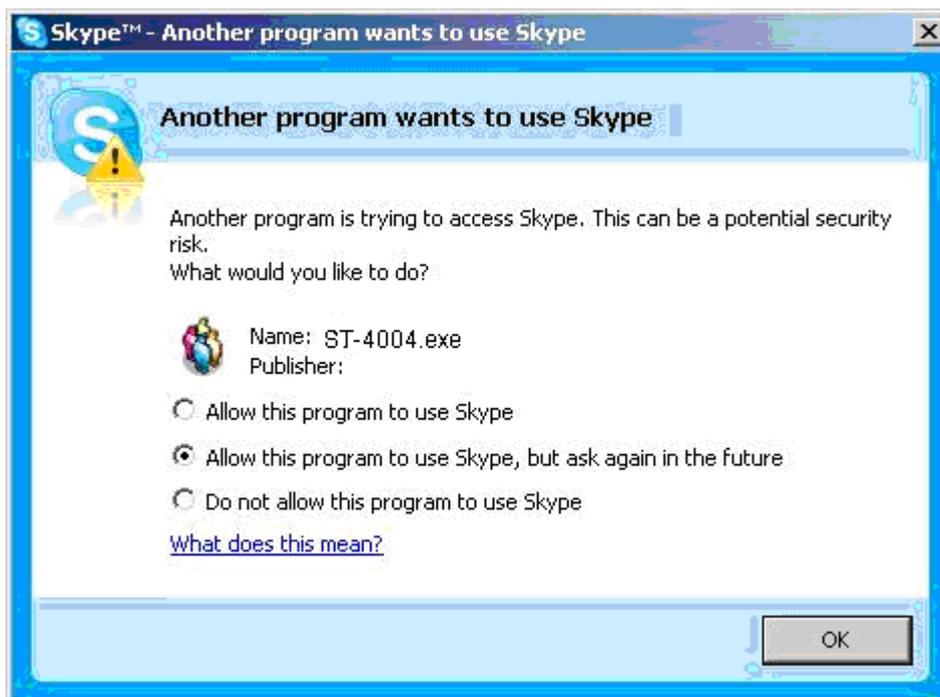
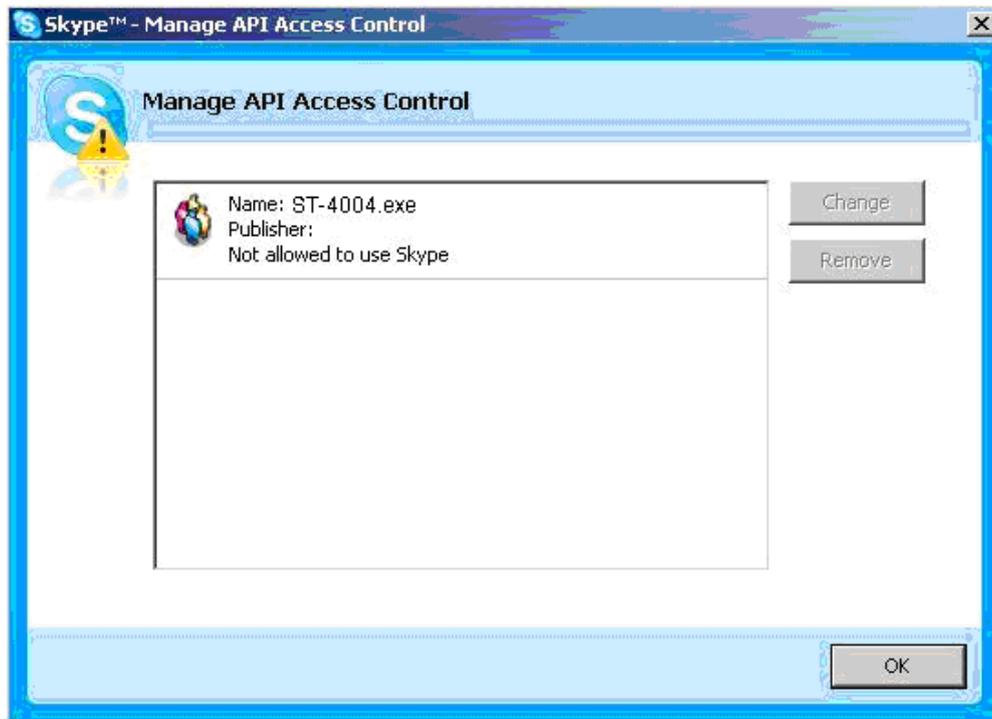
Step 3. Select **Privacy**.

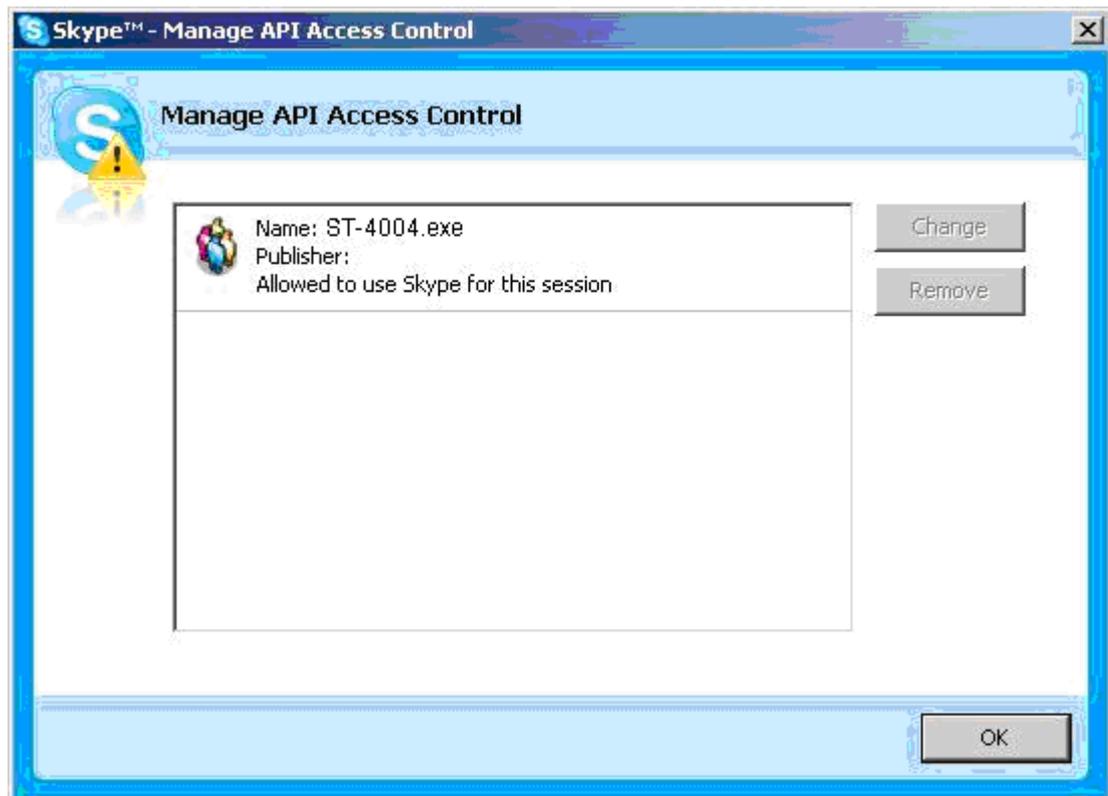
Step 4. Select **Manage other program's access to Skype**.

Step 5. A "**Manage API Access Control**" window will pop out.

Step 6. Select "**ST-4004.EXE**" (**SkyAgent.EXE for sub Skype accounts**) tab, then select **Change** or **Remove** to allow ST-4004 or SkyAgent to access Skype. After setting is changed, ST-4004 or SkyAgent will work when PC restarts next time. Administer can select "**Allow this program to use Skype**" in order to prevent the warning information popping out every time.







Q5: Why there is no audio out after finishing ST-4004 hardware and software setup?

A: After ST-4004 hardware is connected to a server PC successfully, ST-4004 is recognized as four USB audio devices(USBAudio00 、USBAudio01 、USBAudio02 and USBAudio03) in the server PC. When ST-4004 software is launched, each USB audio device should correspond with each Skype account's sound device. For example, USBAudio00 corresponds to Skype account voip-1111. Administrator can follow these steps to check.

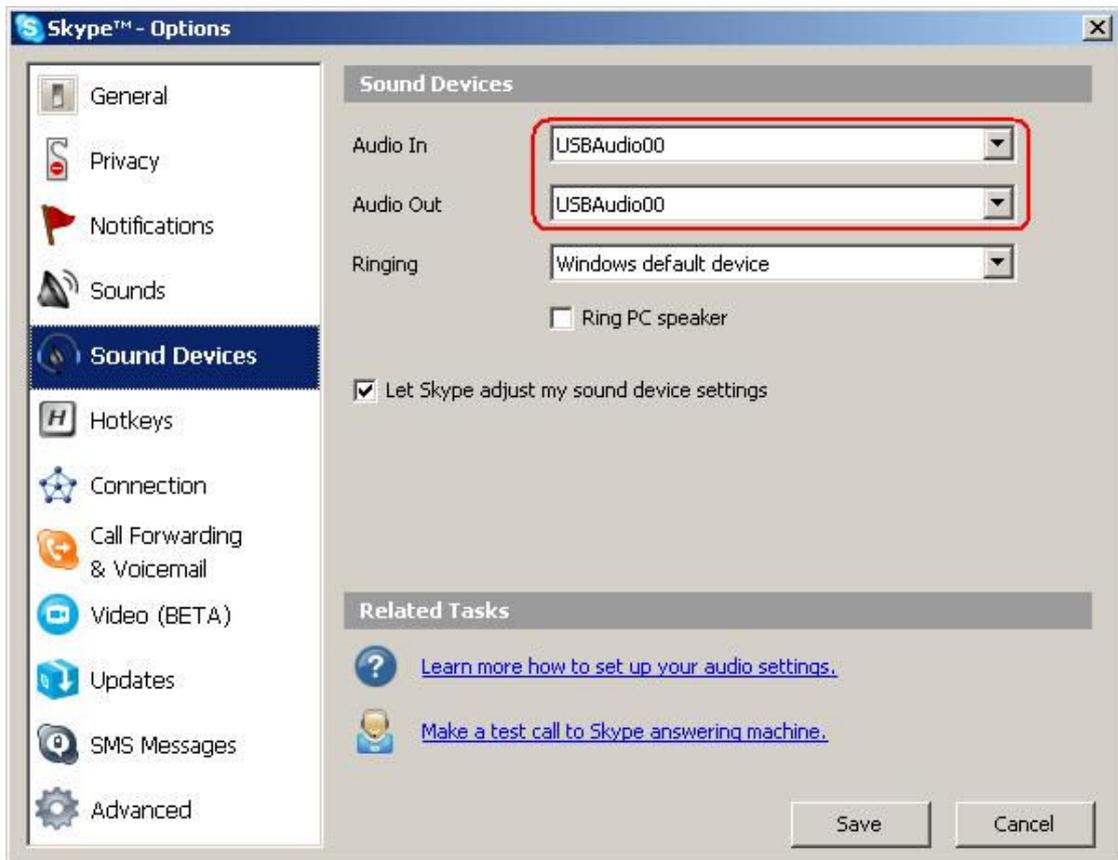
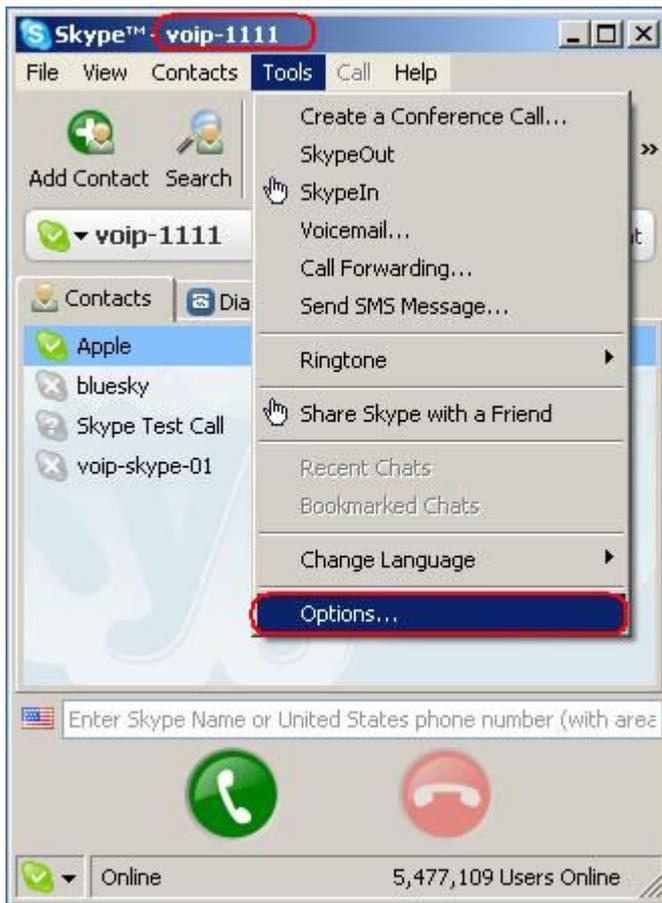
Step 1: Select **Tools** from Skype main window.

Step 2: Select **Options**.

Step 3: Select **Sound Devices**.

Step 4: Check the column of "**Audio In**" and "**Audio out**" and make sure USBAudio00 is chosen.

Step 5: Check if other sub Skype accounts have correct audio devices USBAudio01~ USBAudio03



12. Regulation

Regulatory Compliance Notices

Class B Equipment

This equipment has been tested to comply with the limits for a Class B 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 implementing one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to note that any changes or modifications made to this device that are not expressly approved may void the users' authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo in the United States only.

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
2. This device must accept any interference received, including interference that may cause unwanted operation.