



SkyGM-102 VoIP Gateway User Manual



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Welcome

SkyGM-102 Personal VoIP Gateway is an exciting new device that let's you make and receive Skype™ calls using your standard telephone handset.

After you follow the simple installation you will be able to do the following:

- Continue to make and receive regular calls as you normally do
- Make and receive Skype™ calls using your standard telephone
- Forward Skype™ calls to your mobile phone
- Make Skype™ calls from your mobile phone even when you are away from your computer
- Switch between a Skype™ call and a regular phone call
- Check Skype™ voicemail from your handset
- Use the SkyGM-102 as an Answering Machine for PSTN and VoIP calls
- Record incoming Skype™, PSTN and forwarded calls as wave (WAV) files

This document covers driver version 1.41.0.64.

Please view the readme.txt that is installed with the SkyGM-102 driver. It lists any known issues that may exist.

Package

SkyGM-102 Personal VoIP Gateway package includes the following (note that your particular hardware and cables may look slightly different than shown below).

1. SkyGM-102 Personal VoIP Gateway



2. RJ-11Cable



3.USB Cable



4.Driver CD



5. User Manual CD



System Requirements

In order to install the SkyGM-102 adapter you will need the following:

1. SkyGM-102 adapter
2. RJ11 cable
3. Telephone (regular telephone, cordless phone, DECT phone, ...)
4. Telephone service (for conf call, 3 way calling and forwarding features)
5. Broadband internet service is recommended
6. PC with the following **minimum** specifications:
 - Pentium 800MHz or equivalent
 - Windows 2000 · XP · Vista or Windows 7
 - Skype™ version 3.8 or higher (www.skype.com) must be installed.
 - 512MB RAM
 - 20MB available hard disk space
 - CD-ROM drive to install SkyGM-102 software from the supplied CD-ROM
7. **Recommended** PC specification for optimal performance:
 - Pentium 1GHz or equivalent
 - Windows 2000 · XP · Vista or Windows 7
 - Skype™ version 3.8 or higher (www.skype.com) must be installed.
 - 512 MB RAM
 - 30MB available hard disk space
 - CD-ROM drive to install SkyGM-102 software from the supplied CD-ROM

SkyGM-102 Installing

The following instructions will guide you through the process of installing the SkyGM-102 Personal VoIP Gateway.

The installation procedure is to:

- Install Skype™ (step 1 below)
- Install SkyGM-102 driver (step 2 below)
- Confirm SkyGM-102 program installed
- Follow the instructions to the hardware SkyGM-102 access to the computer USB port, confirm that the installation is complete.
- Verify the installation is OK.
- Connect a telephone handset to the SkyGM-102 adapter.
- Connect the SkyGM-102 adapter to the wall jack. Note that this is optional and only required for the forwarding and conferencing features.
- Use your SkyGM-102 adapter to make and receive Skype™ calls.

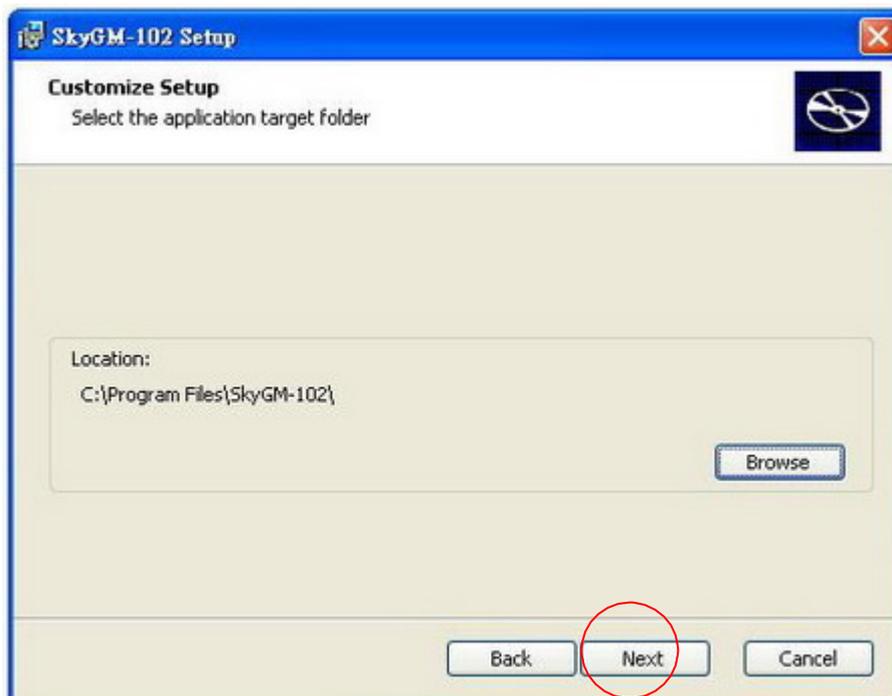
The detailed instructions follow :

STEP 1: If Skype™ is not already installed on your computer, visit <http://www.skype.com> and follow the instructions there to install Skype™. Verify that Skype™ is working before installing the SkyGM-102 adapter.

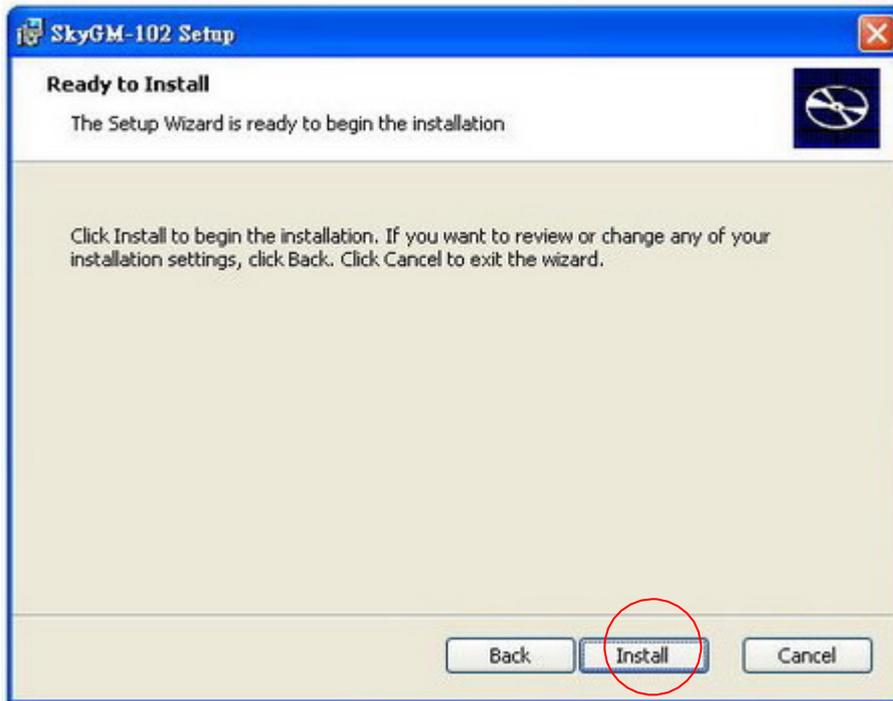
STEP 2: Installation SkyGM-102 program, click " Next " button.



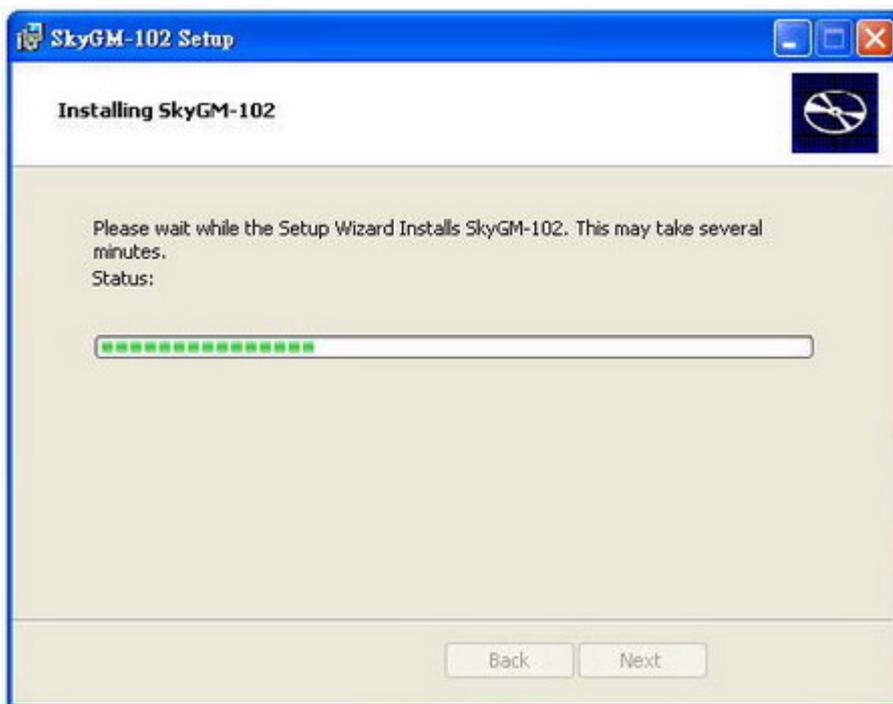
On the following window press "Customize setup", click " Next " button.



On the following window press " Ready to Install ", click " Install " button.



On the following window press "Install SkyGM-102 ".



On the following window press on “Continue Anyway” button, as shown by the picture below:



On the following window press "Completing the SkyGM-102 Setup Wizard" screen, click "Finish" button. Then please SkyGM-102 hardware device into your computer to complete installation.



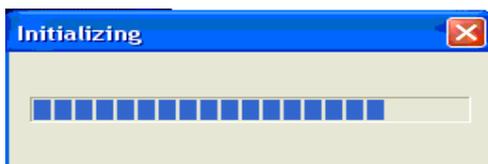
Hardware device SkyGM-102 into the computer, the computer work out the lower right corner that shows "Found new hardware"



On the following window press "Software Installation" warning screen, click "Continue Anyway" button.



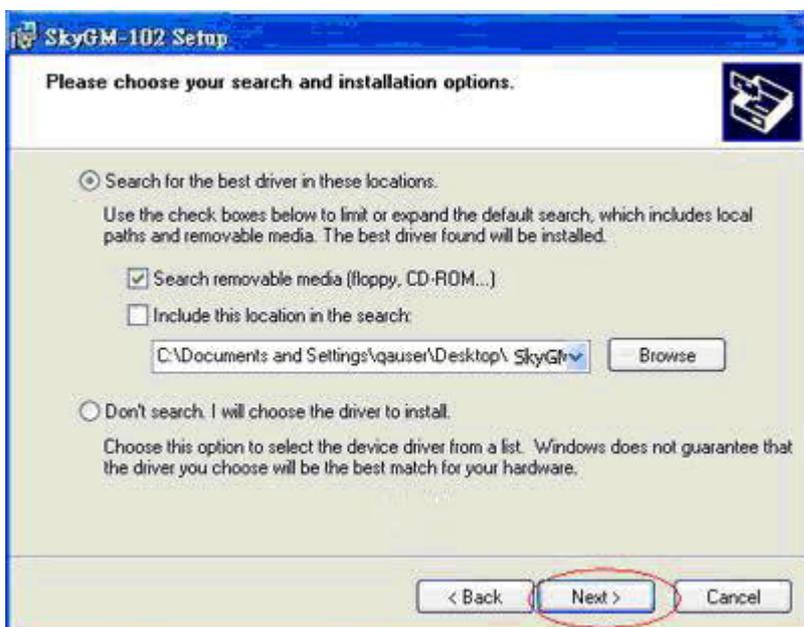
At this stage SkyGM-102 will be initializing as shown by the picture below:



On the following window choose the second radio button and press “Next”, as shown by the picture below:



On the following window press “Next”, as shown by the picture below:



On the following window, press on “Continue Anyway” button, as shown by the picture below:



After you get the following window, press “Finish”, as shown by the picture below:



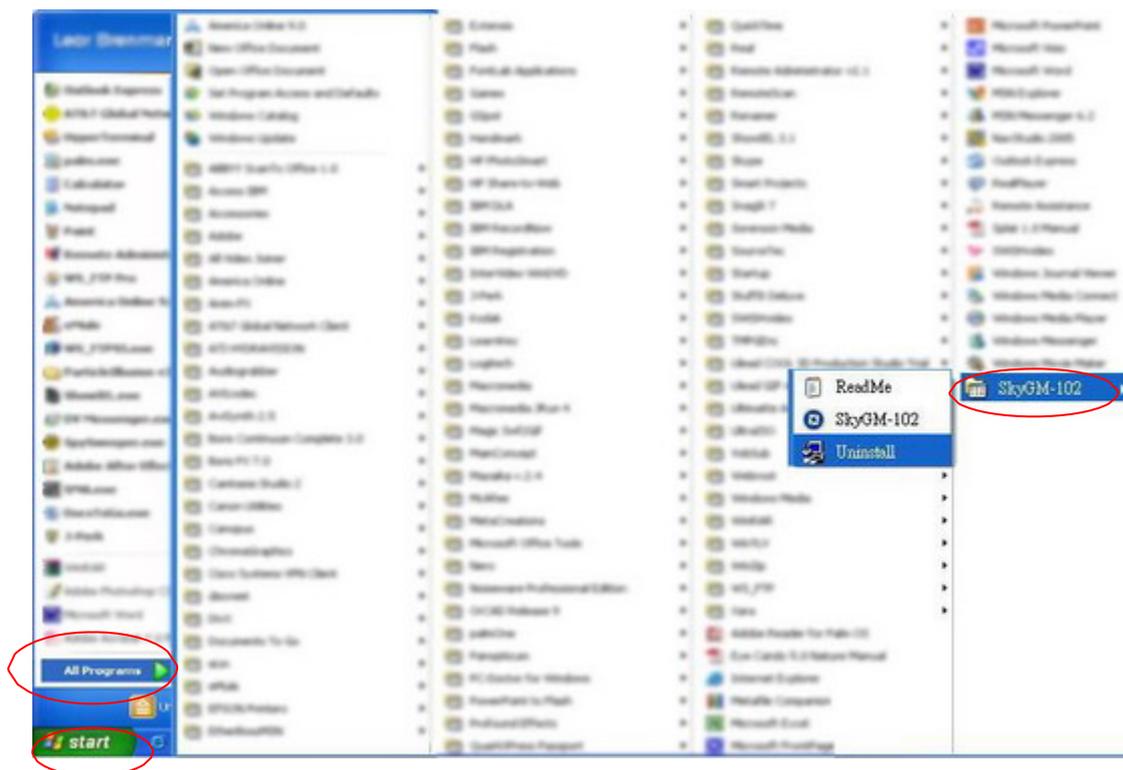
Your SkyGM-102 software is now installed on your computer.

When the installation completes you should see the following message appear near your system tray and a new telephone icon (circled in red below) in your system tray as shown below.

The telephone icon indicates that the SkyGM-102 software is installed and running and that you can start making calls via Skype™ and the SkyGM-102 adapter.



You will see a new program group named SkyGM-102, accessed from the Start button → All Programs as shown below.



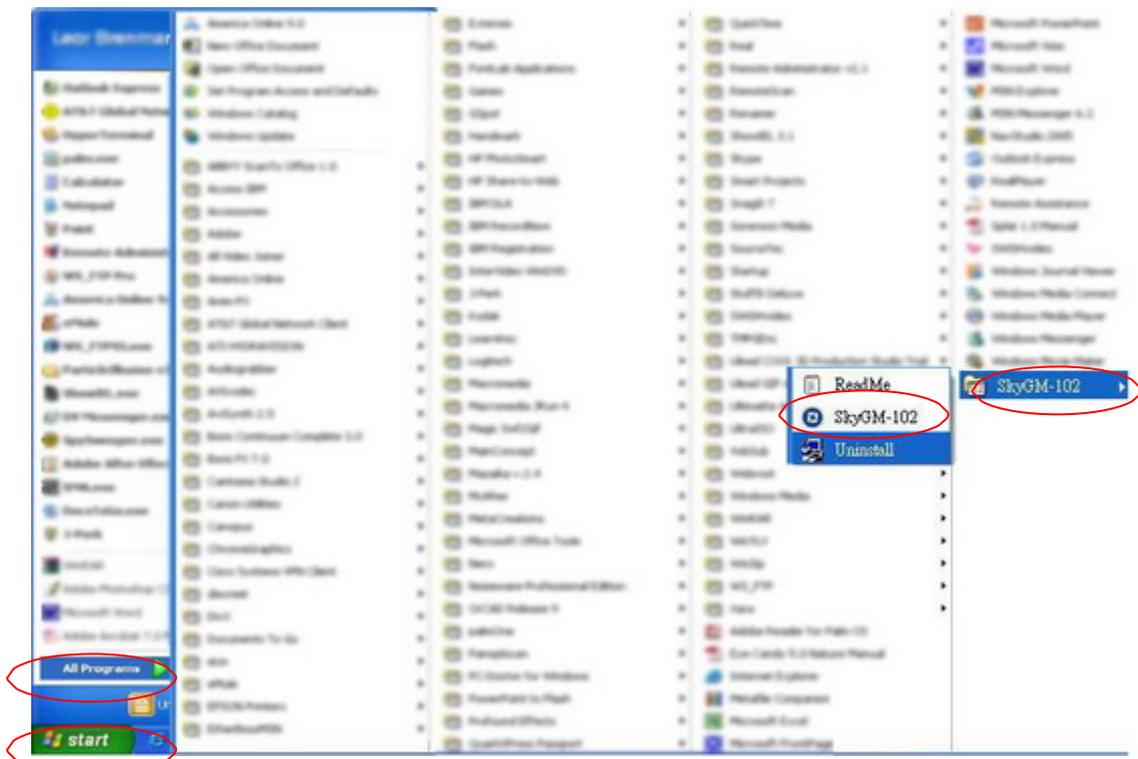
Start SkyGM-102

In order to use SkyGM-102 and its features,

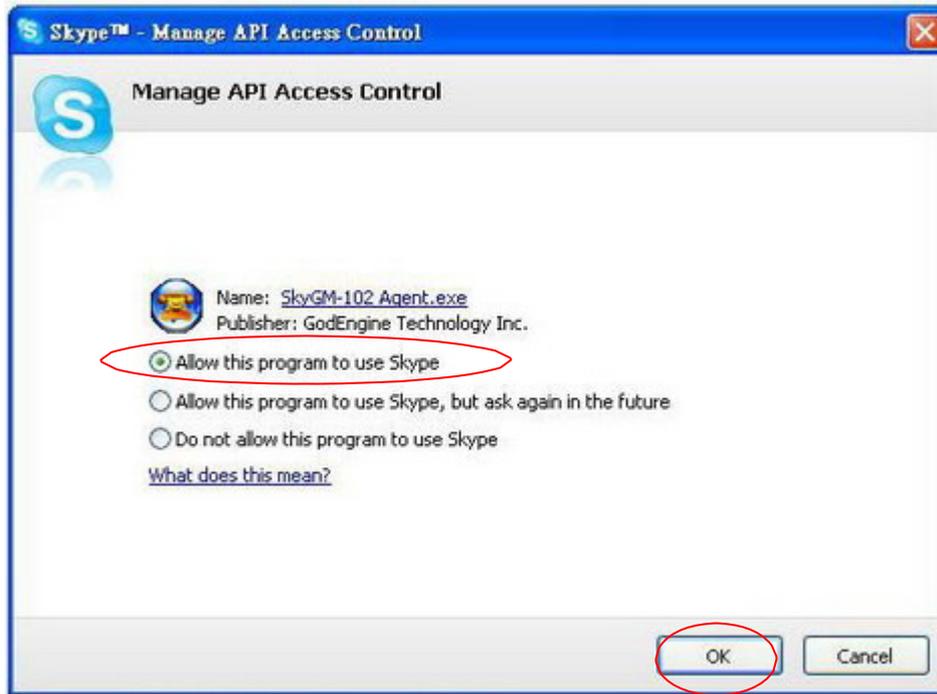
- (1) the SkyGM-102 adapter must be plugged into the PC,
- (2) a telephone handset must be plugged into the SkyGM-102 adapter,
- (3) the SkyGM-102 adapter must be connected to the telephone wall jack
- (4) the SkyGM-102 agent must be running (see green telephone in the Windows System Tray).

(note 1 – this is only required for making regular phone calls or for forwarding Skype calls to your mobile (or other off-site) phone or for toll bypass applications)

If the SkyGM-102 Agent is not running (i.e. no green telephone in the system tray), make sure the SkyGM-102 adapter is connected to the PC and start the SkyGM-102 Agent as shown below (Start → All Programs → SkyGM-102 → SkyGM-102) :



You may see the following screen, select the option, “**Allow this program to use Skype**” and press the **OK** button.



You should now see the SkyGM-102 agent in the Windows System Tray as shown below.



You are now ready to use the SkyGM-102 Personal VoIP Gateway.

SkyGM-102 program state model

When the SkyGM-102 adapter is installed and the software is installed properly, then you will see a white blue phone design  in the system tray as shown below.



SkyGM-102 of the desktop and Quick Launch icon:



SkyGM-102 lower right corner of the system of Microsoft Windows Desktop Taskbar icon:



Standby



Phone use



Failure of hardware devices to enable



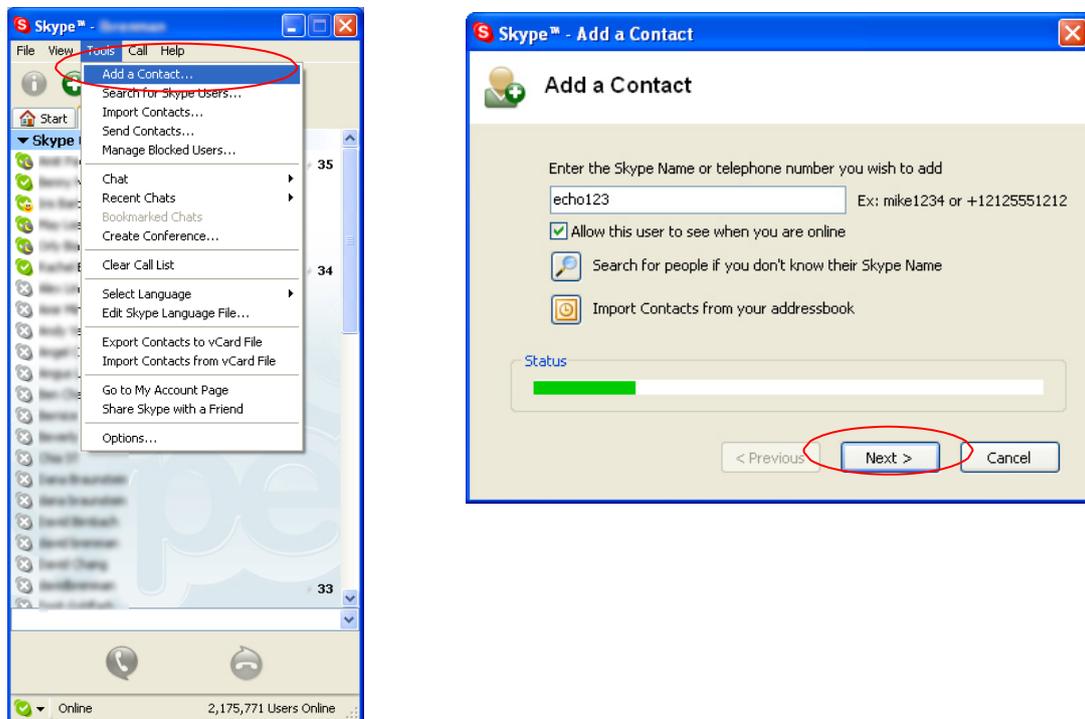
Skype can not connect

When the SkyGM-102 agent is not running, there is no phone in the system tray.

Test SkyGM-102

Skype provides a useful feature to test your connection. It is called Echo123. If you send “callme” in a chat with echo123, the echo123 service will call you and let you leave a message which will be played back to you. This will help you verify that the SkyGM-102 adapter, SkyGM-102 driver and the telephone are all connected and installed properly.

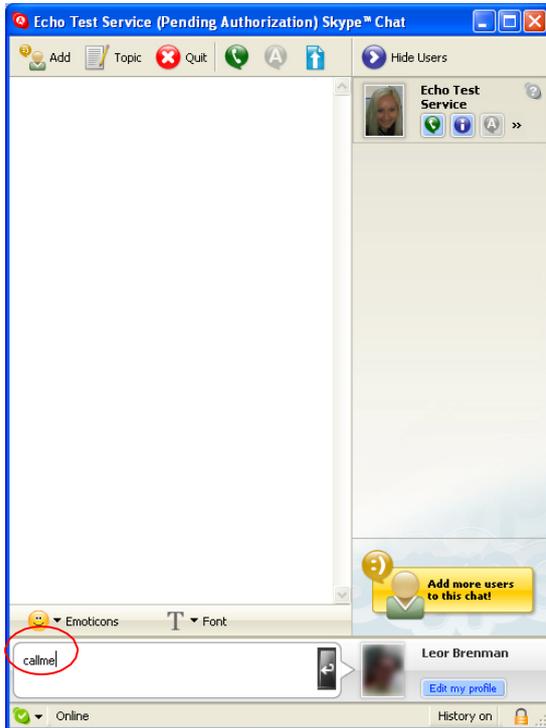
Add Echo123 to your Skype contact list from the Skype Tools menu → Add to Contact,List entry as shown below:



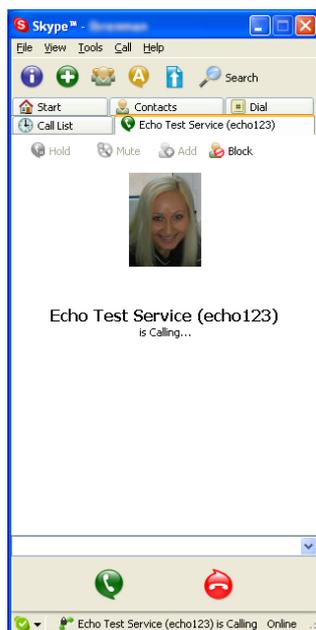
When Echo123 is added, click on the chat button as shown below:



You will see the following chat screen and you should enter “callme” and press the Enter key on your keyboard.



Within 10-20 seconds, you should see the following screen, and the telephone connected to the SkyGM-102 adapter should ring. Pick up the handset and follow the instructions. The Echo Test Service will ask you to leave a message which will be played back immediately. This will help you verify that the SkyGM-102 adapter, SkyGM-102 driver and the telephone handset are all connected and installed properly.

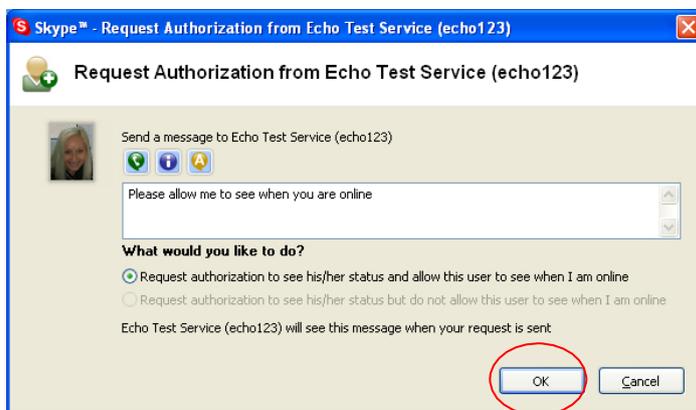


Note:

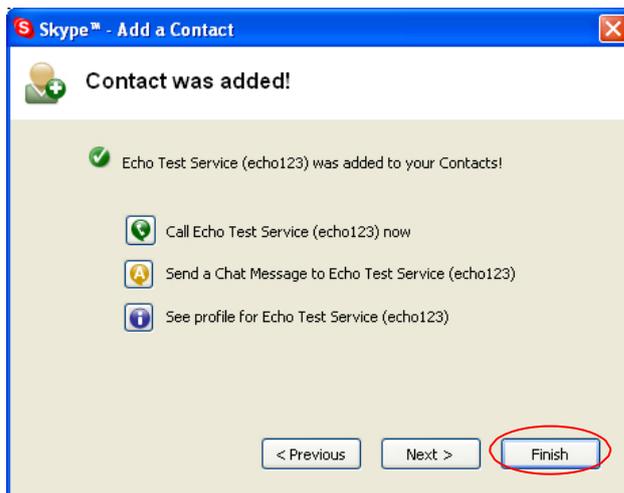
"callme" for "echo123" is a feature presented and supported by Skype – it may not be supported in some geographic locations or due to other reasons beyond the scope of SkyGM-102.

In case that following typing "callme" you receive a Skype chat error message or the Skype user interface doesn't indicate an incoming call, you can still try to establish an outgoing call to "echo123" to test the SkyGM-102 device.

When the test concludes you can press **OK** on the following screen.



and then press **Finish** on the following screen.



Make and receive calls

You can continue to use the telephone handset connected to the SkyGM-102 adapter to make and receive standard telephone calls as you used without any change. To make a standard phone call, just pick up the handset and dial as you normally would. To answer (receive) a standard phone call just pick up the handset when the phone rings.

When you receive an incoming Skype™ call, the handset connected to the SkyGM-102 adapter will ring. If your handset supports Alphanumeric Caller ID, then the Skype username will be displayed on the handset's screen where the standard caller ID information is displayed. To answer the call, just pick up the handset and speak as you normally would. To end the call, simply hang up the handset as you normally would.

If you have SkypeOut™, you can use the SkyGM-102 connected handset to make SkypeOut™ calls by picking up the handset, pressing ##, to indicate to the SkyGM-102 adapter that this is not a standard call but a Skype call, dialing as per the SkypeOut™ recommended dialing sequence, **00 + country code + area code+ telephone number** (e.g. 001 617555 1212) and pressing the asterisk (*) key.

In order to make a call to a Skype™ contact, you will need to use the Skype™ program to assign a speed dial (as described in the next section) to each person you would like to call from the SkyGM-102 connected handset. Then simply pick up the handset, press ##, to indicate to the TLink™ adapter that this is not a standard call but a Skype call, you will hear a new dial-tone, press the speed dial number (e.g. 22) and then press the asterisk (*) key.

Setting Up Skype Speed Dial

This section describes how to setup speed dials in Skype™. This is required in order to use a SkyGM-102 connected handset to dial to a Skype™ contact. It is not required for making SkypeOut™ calls using a TLink™ connected handset.

Step 1: Right click on the desired contact as shown below and select **Assign Speed-Dial:**



Step 2: Enter the desired speed dial number (e.g. **22**) as shown below and press the **OK** button.



Internet telephone and general market, then switching between

While on a regular phone call you may receive a Skype™ call or while on a Skype™ call you may receive a regular call. The SkyGM-102 adapter will indicate an incoming call with an audible call waiting tone and you can do the following:

- Press '#1' to answer new call keeping current call on-hold
- Press '##' to answer call and terminate current call

Once having 2 active calls, you may:

- Press '#1' putting current call on-hold switching to other call
- Press '##' terminating current call switching to other call
- Press '#2' to conference the calls together (see next section)

While on a regular phone call, if you receive a Skype call, you can see the Skype username on your telephone (if it has alphanumeric CLID display).

Conference Call

While on a regular phone call you may receive a Skype™ call or while on a Skype™ call you may receive a regular call. The TLink™ adapter will indicate an incoming call with an audible tone and you can conference in the additional caller by pressing '#2'.

While in a conference call, you may press '#1' to return to 2 active calls (with PSTN active, VoIP on-hold), and then as described above to switch between calls ('#1' – put current on hold, '##' terminate current), or conference them again using '#2'.

Three-way calling

During an active Skype call the user may press '#1' to put current Skype call on-hold and get a PSTN dial tone to establish a PSTN call. Similarly, during an active PSTN call the user may press '#1' to put current PSTN call on-hold and get a VoIP dial tone to establish a Skype call.

You may then:

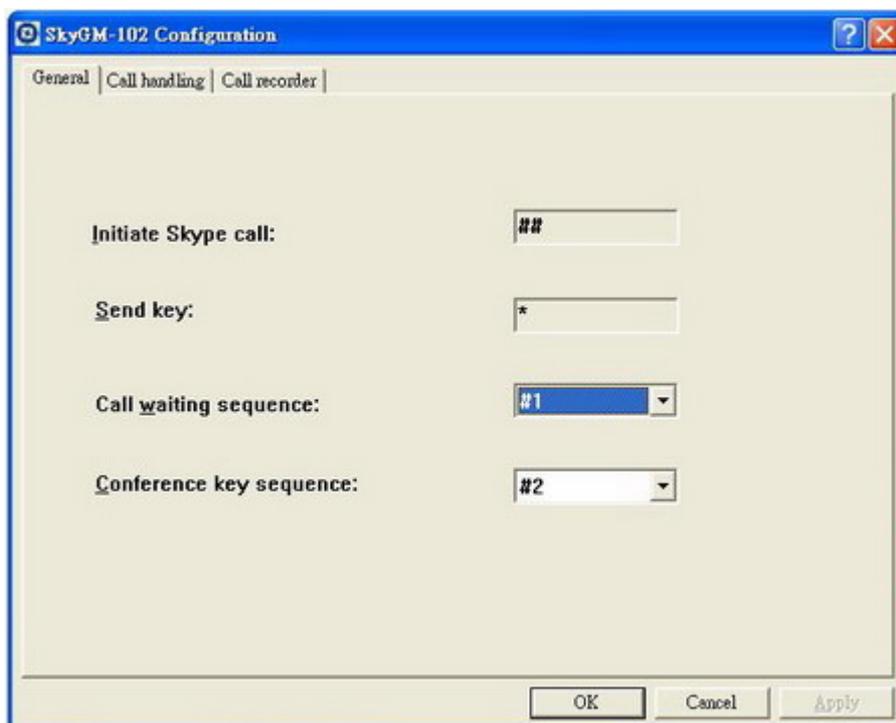
- Press '#1' to switch between active calls keeping current call on-hold
- Press '##' to terminate current call and switch to call on-hold
- Press '#2' to conference the calls together

Call forward

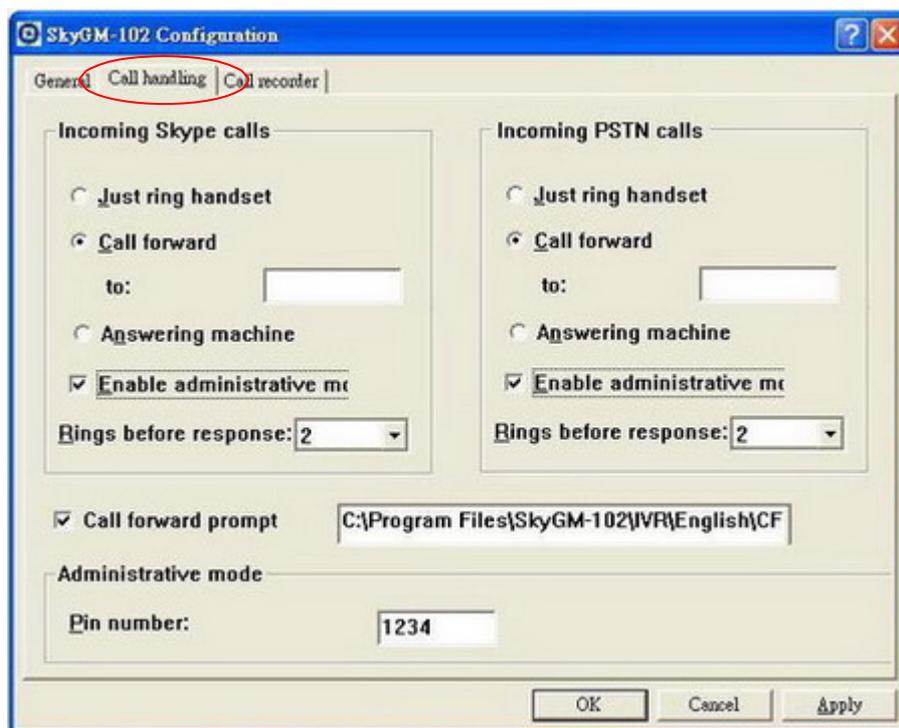
The SkyGM-102 adapter can be configured to forward all incoming Skype™ calls to another telephone number, such as your mobile phone. It can also forward incoming telephone calls to a Skype™ or SkypeOut™ call. Right click on the Skype Agent (green telephone in the Windows System Tray) and select **configure** as shown below.



You will see the SkyGM-102 configuration screen as shown below.

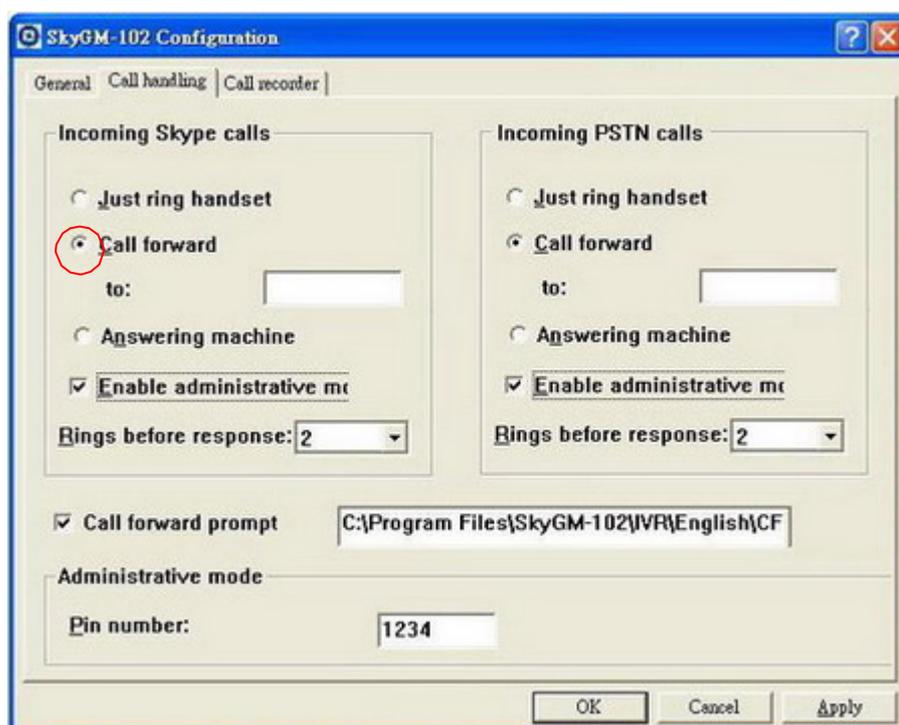


Press the **Call handling** tab to see the Call handling parameters as shown below:

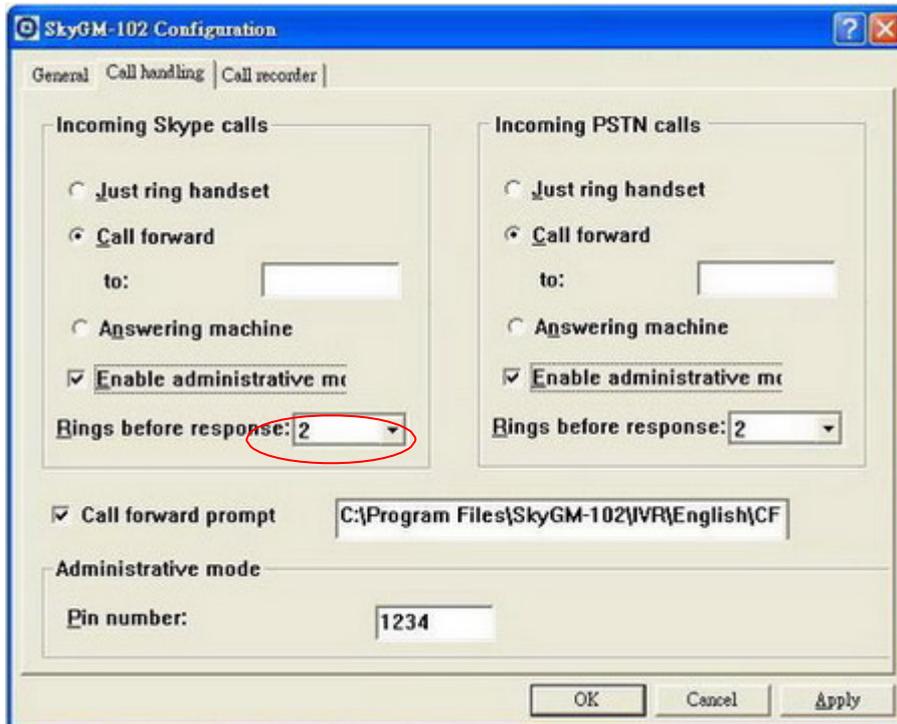


In order to forward incoming Skype™ calls to a telephone number such as your mobile phone, change the **Incoming Internet Calls** settings as follows :

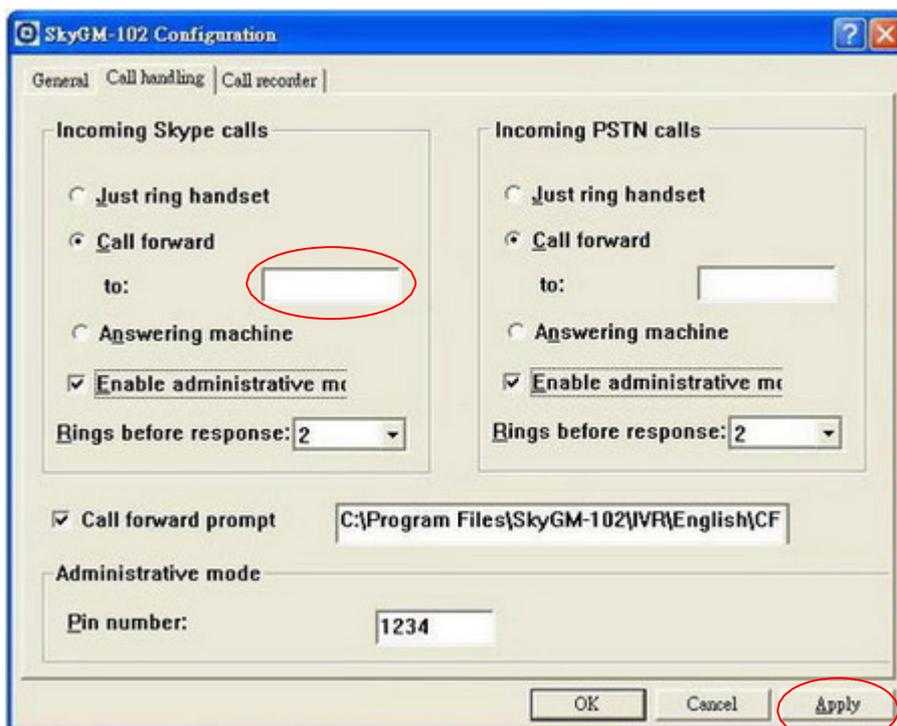
- Check the Call Forward check box as shown below:



- Select the number of rings before the forwarding takes place as shown below.



- Then select the telephone that should be dialed on the telephone line and press the **Apply** and/or **OK** button as shown below. Enter the telephone exactly as you would dial it if you were to pick up a telephone directly connected to the phone line.



If you are on a PBX, you may need to press a digit to get an outside line (i.e. 9). In this case you would enter 9,,16175551212. You may need to experiment with the number of commas to enter. This is related to the time it takes the PBX to provide a dial tone after pressing the outside line digit (i.e. 9).

The instructions above describe how to forward incoming VoIP calls to the PSTN. In order to forward incoming PSTN calls to a VoIP call, such as through SkypeOut™ or to a Skype account, the instructions above for the “Incoming PSTN Calls” fields. For the number to dial, enter a speed dial number (e.g. 77) associated with the Skype User without the * key (as shown above).or enter the SkypeOut™ number (e.g. 0016175551212).

As you can see in the screenshot above, when forwarding is enabled, the driver will disable the computer’s ability to go to standby mode. When the computer tries to go into a standby mode, you will see the following popup:

If the computer goes to sleep, then toll bypass will not work. To turn this feature off, uncheck the “Disable Standby/Hibernate” check box.

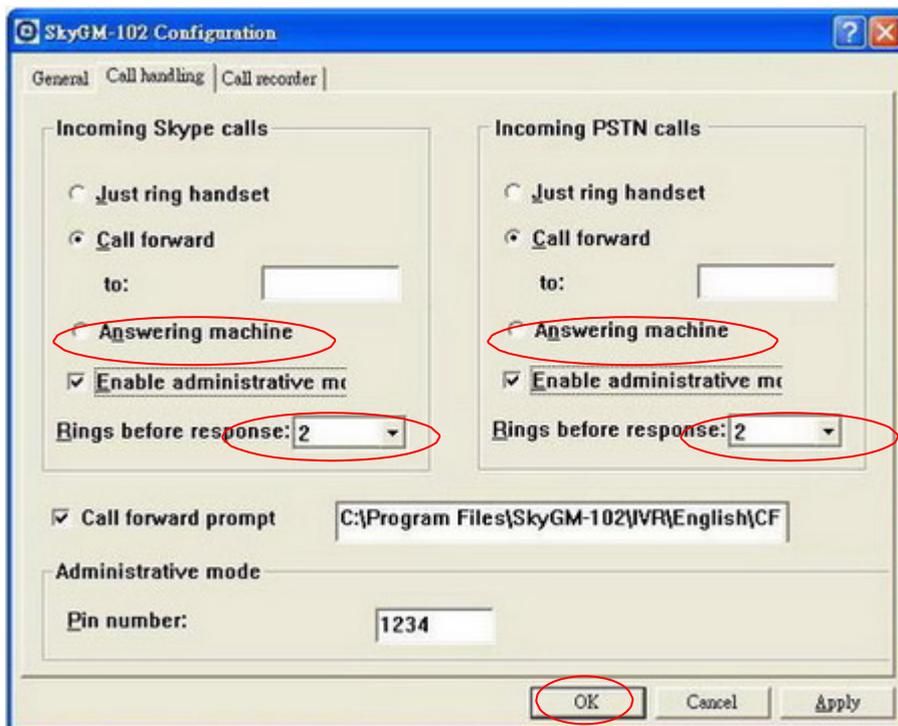
When call forwarding is enabled, incoming callers will hear a voice message indicating that the call is being forwarded. This let’s the incoming caller know what is transpiring.

Answering machine(TAM)

SkyGM-102 includes a telephone answering machine (TAM) and can be configured to answer incoming VoIP and PSTN calls. The answering machine can be accessed and configured from the local telephone handset connected to SkyGM-102 as well as remotely by calling into the PSTN line connected to SkyGM-102. The access is enabled via the SkyGM-102 Interactive Voice Response (IVR) system.

The SkyGM-102 TAM can be used in conjunction with or independent of any VoIP voicemail service you may be subscribed to. When you access the SkyGM-102 TAM, you will be able to access the VoIP service voicemail, if subscribed, as well as the SkyGM-102 voice messages.

The answering machine is disabled by default. In order to enable the SkyGM-102 TAM, bring up the SkyGM-102 → Call handling tab and press the *Answering machine* radio dial for *Incoming Internet calls* (for incoming VoIP calls) and/or *Incoming PSTN calls* (for incoming phone calls) and select the desired number of rings before the TAM answers as shown below:



Note your Pin number. This can be changed and will be required in order to check messages or change the TAM options remotely.

After all changes are made, press Apply and then OK.

At this point, the SkyGM-102 TAM will answer incoming calls after the desired number of rings. The caller will then hear the Outgoing message and have a chance to leave an incoming message.

Voicemail messages are stored on the computer in WAV format in the following:

Interactive voice response system (IVR)

The IVR system provides access to the SkyGM-102 TAM for managing recorded messages as well as configuring the TAM. In addition, the IVR provides access to Toll Bypass(explained in the Toll Bypass section) and the VoIP service provider Voicemail.

The IVR system can be accessed from the local telephone handset connected to SkyGM-102 as well as via calling in remotely (explained in the Remote Administrative Access section).

Not all features are supported in all modes (i.e. local access versus remote access).

See Appendix A for a detailed flow chart of the IVR system.

IVR control of the machine

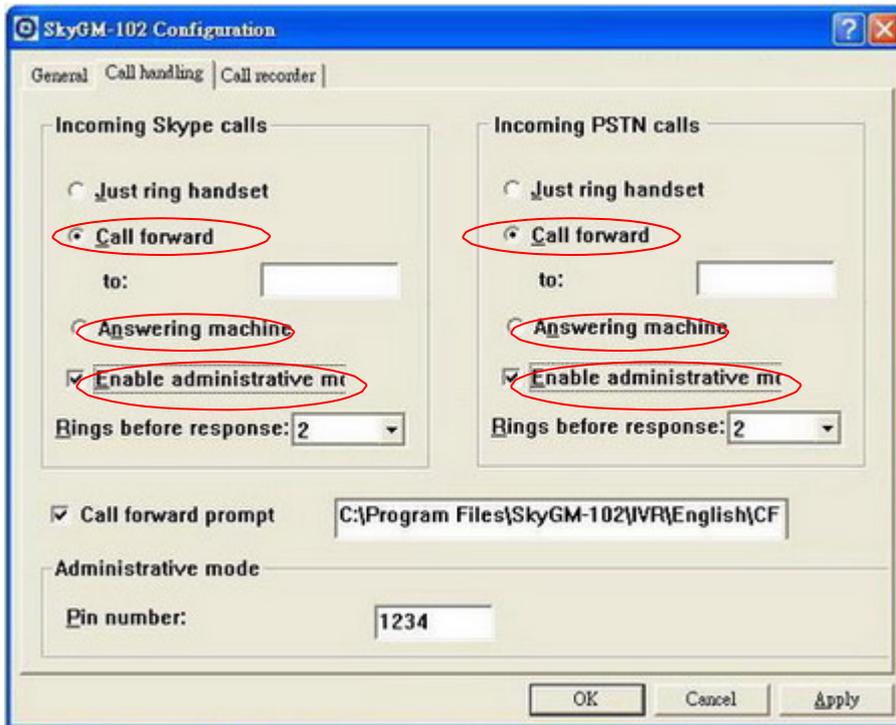
The IVR is accessed locally by picking up the SkyGM-102 connected telephone handset, going off-hook and switching to VoIP dialtone. (if you have pending VoIP service or SkyGM-102 TAM voice messages, the VoIP dialtone will have a stutter dial) and pressing the ' * ' key. At this point the IVR system will provide all the necessary voice queues for the following:

- Listen to locally SkyGM-102 TAM recorded voice mails
- Delete locally SkyGM-102 TAM recorded voice mails
- Access the VoIP service provider voice mail system
- Configure the SkyGM-102 TAM (record new outgoing message, restore the factory default outgoing message, ...)

You can press DTMF digits while the menu is being played if you are familiar with the menu options and flow. There is no need to wait until the end of each voice queue. The same applies for voice messages browsing – you may repeat the voice message ('1'), delete the voice message, ('2') or skip to next voice message, ('3'), while the voice message is being played. Each menu will be played up to 3 times (5 sec silence between repetitions), if no user action taken within this time the call would disconnect with goodbye message.

Remote IVR control

In order to access the IVR remotely, the *Answering Machine* **OR** *Call forward* option **AND** *Enable administrative mode* option must be set for the network (Internet and/or PSTN) you would like to call in on as shown below:



Once enable, you can call in to your PSTN line or your VoIP account to remotely access SkyGM-102. When you call in, you will hear the outgoing message or the call forward message. During the message, you should press the '*' key followed by the pin code and '*' key again. You have 3 trials to enter the pin code before the call is disconnected. Once authenticated you can do the following by listening to and responding to the IVR voice prompts:

- Make a toll bypass call (explained in the Toll Bypass section)
- Listen to and/or delete SkyGM-102 TAM recorded voice messages
- Change the outgoing message
- Access the VoIP service voicemail (when calling from PSTN)

Your pin code can be between 4 and 8 digits.

Any call forwarding

Once authenticated (as explained in the Remote IVR Access section), you can make a call on the other network. This is referred to as toll bypass. For example, you can call in on the VoIP network and make a PSTN call or you can call in on the PSTN line and make a VoIP call.

In order to make a call, simply enter the desired number or speed dial number followed by the '*' key and you call will be placed.

If you call in via PSTN and make a VoIP Toll Bypass call, you can terminate the call by pressing '##' (for quick termination) or simply hang up. If you call in via the VoIP network and make a PSTN Toll Bypass call, you can terminate the call by ending the VoIP session.

Skype voice mail

With SkyGM-102 active, the attached telephone handset can be used to check for, and listen to your Skype voicemail.

You can access your voice mail only when there is no call in progress.

In order to access your voicemail:

1. Pick up the attached telephone handset
2. Press '##' to get VoIP dial tone
3. If a new Skype voice message exists the VoIP dial tone will have an intermittent beep
4. Press '*' to access IVR system
5. follow the menus to access Skype voice mail mode
6. Once in voice mail mode the first message is played automatically
7. At the end of each message a trailing 'beep' is played
8. At the end of the last messages a trailing 'beep-beep-beep' is played
9. During the playing of current message and within 5 seconds following the end of message the you can press the 1, 2, 3, 9 in order to perform the following actions :

User Action	Key
Repeat current message	1
Delete current message, move to next	2
Keep current message, move to next	3
Delete all messages	9

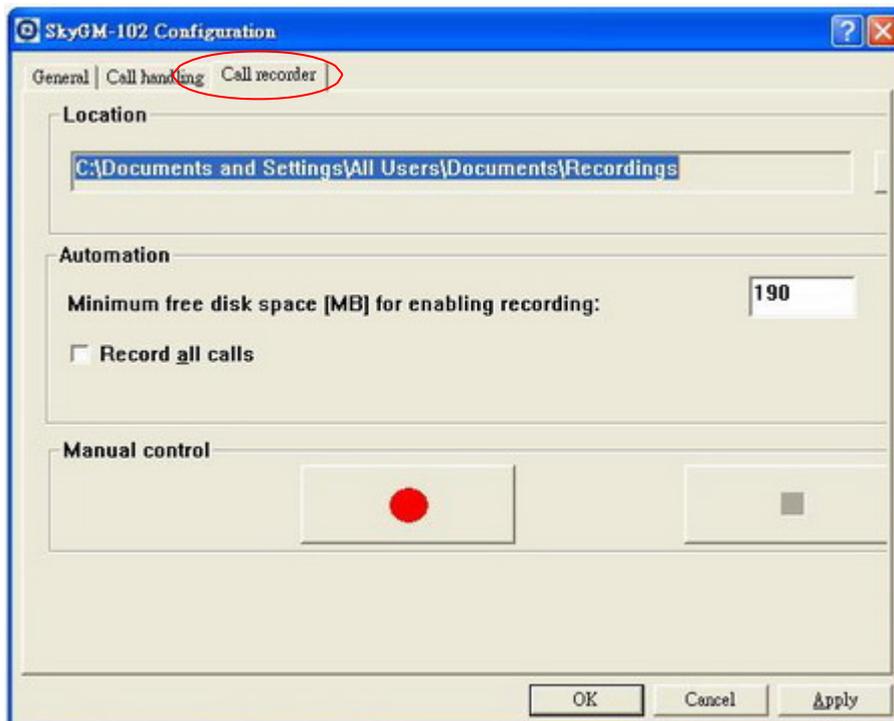
10. If you don't enter any valid key within 5 sec after message has ended, the system will behave as if you pressed '3'

To exit voicemail mode press '##' or place the attached telephone in the handset (i.e. on hook). Alternatively, pressing '#1' will also exit voicemail mode. In either case, the currently playing message will be stopped.

Call recording

With SkyGM-102 active, the attached telephone handset can be used to check for, and listen to your Skype voicemail.

The call recorder is accessed and configured through the SkyGM-102 Call Recorder tab as shown below:



You can change the default location where the recordings will be stored by pressing the button (with three dots) immediately to the right of the location

field. The folder containing the recordings can be accessed by pressing the Open Folder button. With the location folder open you can access the individual recordings.

Recordings are named according to the following naming convention:

Call_<time>_<date>.wav

For example, Call_15-7-2005_11:55:45.wav.

The wave files can be played through any application that supports wave files (e.g. Windows Media Player).

Recording is controlled by two mechanisms: automatic and manual.

Manual recording has two modes:

- Through the Call Recorder screen above - controlled by pressing the record (red dot) and stop (black square) buttons.
- From the telephone handset – controlled by pressing the **#7** keys (start recording) and **#8** keys (stop recording) on the telephone handset connected to SkyGM-102.

Automatic recording is controlled through the Recorder all calls checkbox in the Automation section.

THE RECORDER IS STORING FILES TO YOUR HARD DISK DRIVE. God Engine IS NOT RESPONSIBLE FOR ANY ISSUES THAT ARISE FROM USING THE RECORDING FUNCTION.

God Engine IS NOT REPSONSIBLE FOR ANY LEGAL ISSUES THAT MAY ARISE FROM RECORDING PHONE CALLS.

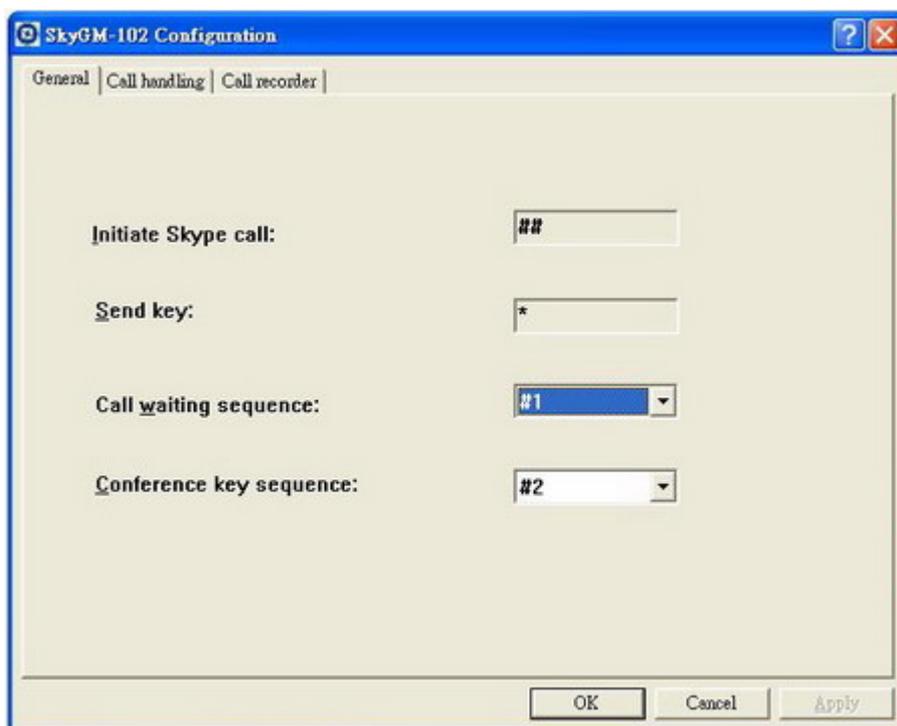
Change the basic feature set

You can change the default settings for sending a call, activating a Skype™ call, switching between a Skype™ call and a regular call (call waiting) and conference calling, by running the SkyGM-102 **Configure**.

Right click on the SkyGM-102 and select Configure as shown below :



You will see the configuration tab as shown below :



The **Initiate Voip Call** – press these keys to get a VoIP dial-tone. You can now dial a SkypeOut™ call or a Skype™ speed dial call from your telephone handset.

The **Send Key** – press this key following the phone number (or speed dial number) when making a VoIP call.

The **Call Waiting Sequence** – press these keys during a call to switch between a VoIP and regular call. For example to switch from a regular telephone call to an incoming Skype™ call or to switch from a Skype™ call to an incoming regular phone call.

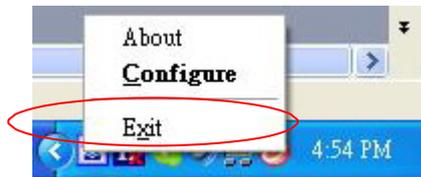
The **Conference Key Sequence** – while on a Skype call and you receive a regular call or while on a regular call and you receive a Skype call, press these keys conference together the two calls.

The **Set Phone Type** selects which softphone you would like to work with.

Press the **Restore Defaults** button if you want to restore all sequences to their factory shipped settings.

Close SkyGM-102

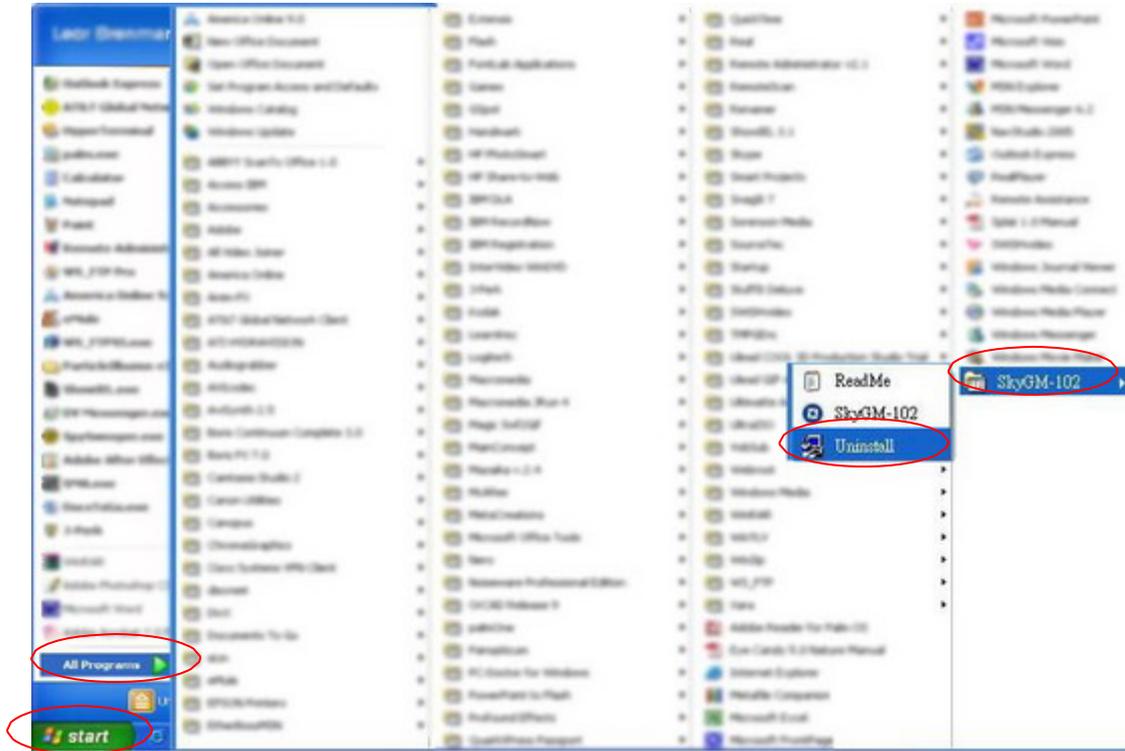
In order to disable SkyGM-102, right click on the SkyGM-102 in the system tray and select **Exit** as shown below.



You can now disconnect the SkyGM-102 adapter from the PC.

Uninstall

In order to uninstall the SkyGM-102 adapter, click on the uninstall utility in the SkyGM-102 program group accessed from the **Start** button → **All Programs** → **SkyGM-102**→**Uninstall**:



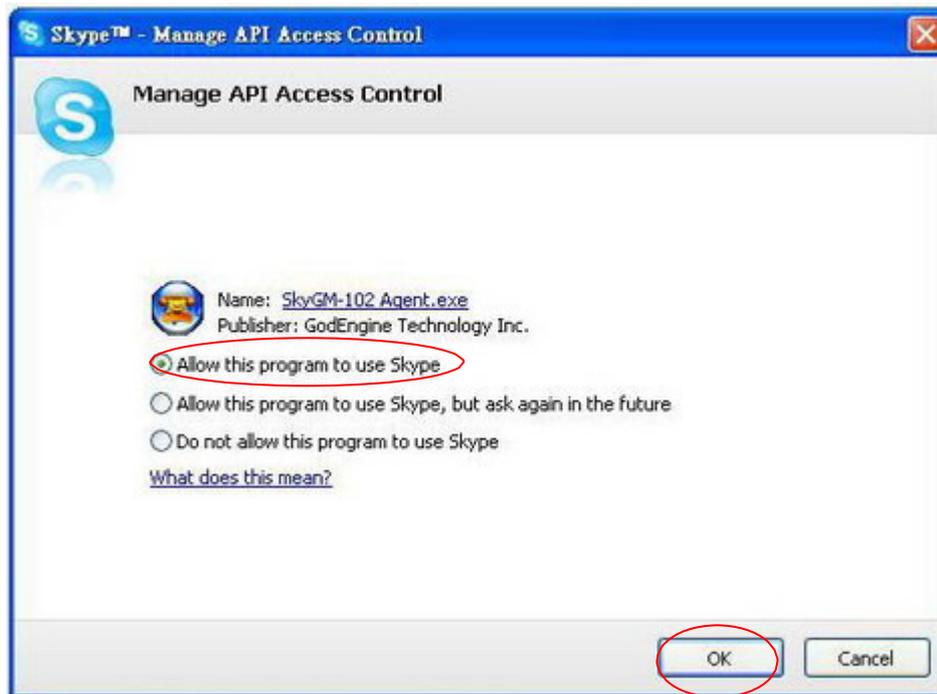
You will see the uninstall indicator as follows.



When the uninstall indicator disappears, the un-installation is complete.

Install new software version SkyGM-102

When you install a new version of SkyGM-102 software, at the end you will see a slightly different Skype warning message as shown below. Select **“Allow this program to use Skype”** and press **OK** as shown below:



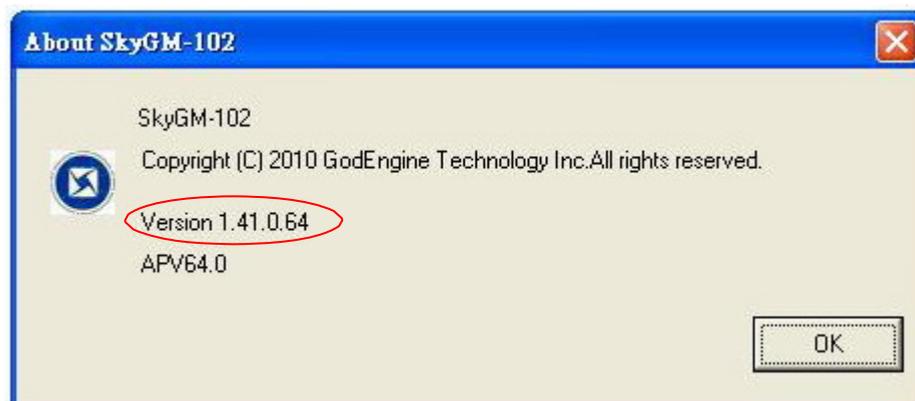
Troubleshooting

The first step in troubleshooting is to read the readme.txt that appears in the SkyGM-102 program group. It contains a list of known issues for the current SkyGM-102 driver version.

To find out the driver version, right click on the SkyGM-102 and select **About** :



You will see the SkyGM-102 About screen below :



Common Fix

If SkyGM-102 was working OK and suddenly stops working properly (e.g. stops responding to incoming rings or you cannot get a VoIP dialtone) try the following:

- Quit the SkyGM-102 (right click on the blue telephone in the System Tray and select Quit)
- Quit the Skype application
- Start Skype
- Start the SkyGM-102

You can also try to reboot the PC.

Softphone Version Warning

If you get a Softphone Version Warning from SkyGM-102, then you should upgrade your softphone to the latest version. Otherwise, SkyGM-102 may not operate properly.

SkyGM-102 does not appear to be responding to incoming calls

There are several reasons why SkyGM-102 may not function.

- SkyGM-102 may not work properly with some 4 wire (multiline) phones
- Make sure the SkyGM-102 adapter is connected to the PC and SkyGM-102 Agent is running (green phone in the Windows System Tray).
- Make sure the handset is connected to the **phone** jack on the SkyGM-102 adaptor and not the **line** jack
- If the Skype™ application was terminated for any reason while the SkyGM-102 was running, you will need to exit the SkyGM-102 and then restart it.
- Some telephone handsets require a battery to be installed in order to ring. If your handset supports a battery, make sure there is a battery installed and that the battery is not depleted.

Cannot hear dial-tone when I pick up the handset connected to the SkyGM-102 adapter

Check to make sure that the handset is connected to the correct jack on the SkyGM-102 adapter

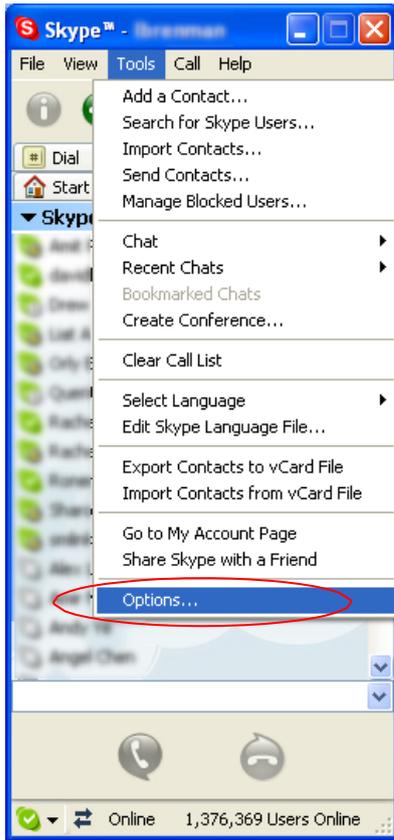
Cannot hear the Skype™ call in telephone handset

Check to make sure that Skype is configured to use the Smart Link Audio device as it's Audio In and Audio Out Sound Device.

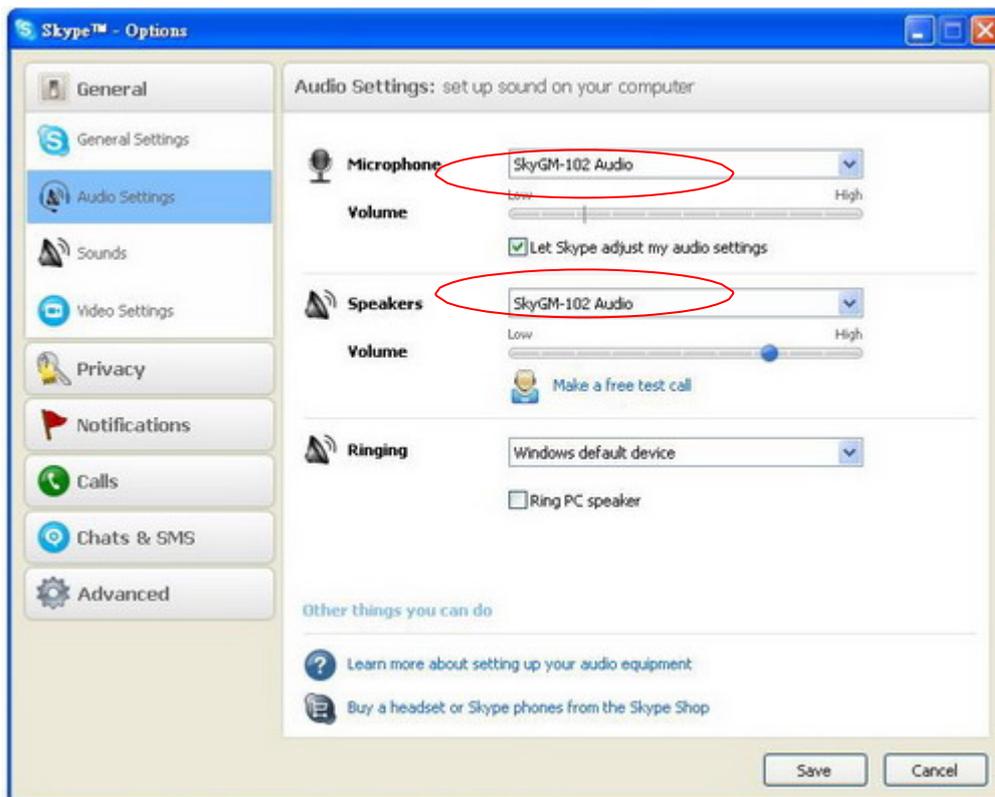
This is done as following :

Select **Options** from the Skype™ Tools Menu as shown below :

and then select Sound Devices as shown below.



Check the Audio In and Audio Out list boxes and make sure **SkyGM-102 Audio** device is selected.



Call Forwarding is not working properly

- Make sure that a telephone cable is plugged into the SkyGM-102 adaptor **line** jack and to the wall phone plug
- Make sure call forwarding is configured properly in the SkyGM-102 → Configure → Call Forwarding tab
- Try to dial the telephone number as you have entered in the SkyGM-102 Call Forwarding dialog box
- If you are on a PBX, make sure you have entered enough commas after the 9 (for example) to make sure that SkyGM-102 waits for the dialtone before dialing the telephone number
- Make sure your computer is not going into suspend (sleep) mode. This will prevent forwarding from working

Toll bypass is not working properly

- Make sure that a telephone cable is plugged into the SkyGM-102 adaptor **line** jack and to the wall phone plug
- Make sure toll bypass is configured properly in the SkyGM-102 → Configure → Call Forwarding tab
- Make sure Skype version 3.6.xx or higher is used on both sides
- Make sure your computer is not going into suspend (sleep) mode. This will prevent toll bypass from working

Skype Username does not display on telephone handset

- Make sure that your telephone has support for Caller ID **name** + number display
- Note that some phones display numbers only and some phones display the name ONLY if the name is stored in the telephone's address book. In this case store the Skype username and speed dial number in the address book in order for the Skype username to display.
- Some examples of phones that support Caller ID **name** + number are :
 - ✧ Panasonic KX-TC1703
 - ✧ Panasonic KX-TC1703
 - ✧ GE 29267GE3-B
 - ✧ Uniden DXT986-2
 - ✧ VTech 9127
 - ✧ AT&A 2230

Appendix A - IVR Flow Chart

