

Teleon Gateway Driver

Quick Guide

Teleon Networks

<http://www.teleon.net>

The purpose of this document is to guide you to install and use Teleon gateway Driver.

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1. Introduction

1.1. Copyright Information

Copyright © 2005-2007 Teleon Networks. Permission is not granted to copy, distribute and/or modify this document unless permitted by Teleon Networks.

1.2. Disclaimer

The methods described in this document might damage your data or your PC or both. The authors will not be responsible for any damage that might arise out of the use of this document. Use this document *ENTIRELY at your own risk*.

All copyrights are held by their respective owners, unless specifically noted otherwise. Use of a term in this document should not be regarded as affecting the validity of any trademark or service mark.

Naming of particular products or brands should not be seen as endorsements.

You are strongly recommended to take a backup of your system before major installation and backups at regular intervals.

1.3. What is Teleon Gateway Driver

Teleon Gateway Driver is a Windows 2000/XP driver for PCTel chipset PCI modem card. It makes the modem to be an IP to PSTN and PSTN to IP phone gateway. You can receive IP calls using software such as Skype and forward the call to PSTN via your phone line and vice versa.

1.4. Feedback

If you have any comments, criticisms, ideas, additions, corrections, then please do mail them to <feedback@teleonnetworks.com>.

2. Where to get the Teleon Gateway driver and card

The Teleon Gateway driver can be downloaded from Teleon website: www.teleonnetworks.com or from 3rd party shareware/freeware distribution website. To obtain license key(Serial Number), you can order from www.teleonnetworks.com, teleonnet@yahoo.com or directly pay to paypal account: teleonnet@yahoo.com. If you buy Teleon Gateway card, the Teleon Gateway driver and license key will be included in the associated software package.

Teleon Gateway Driver support PCTel chipset PCI modem card. You can order such a modem card from Teleon Networks. You can also find such a modem card in your local computer store or on the web. Suitable types including those which use chipset: PCTel-688, PCTel-688T, PCTel-789T. Also some PCTel CNR, PCTel AMR are also supported.

You can use trial use Serial Number 0001 to run the trial version of Teleon Gateway driver to check whether the driver is working for your PCTel modem card. We welcome you to report to us your unsupported PCTel modem type with its driver software. We will try our best to add in Teleon Gateway driver its compatibility.

3. What is included

3.1. What is included in the driver package

The Teleon Gateway Driver package include the following files:

1. Driver installation program: Teleon-GatewayDriver-SkypeLite-Axxx-Setup.
2. Serial Number file if applicable.
3. Teleon Quick Guide.
4. Sample program if applicable.

3.2. What program will be installed.

When you run Teleon-GatewayDriver-SkypeLite-Axxx-Setup.exe, it will self extract several driver and related programs into a temporary directory and install them.

1. It will install Teleon Audio Play/Record Devices. Teleon Audio Play/Record Devices are intrinsically 2 virtual audio cables which link the hardware to user application, and be specially designed for VoIP applications like Skype.
2. It will install Teleon Gateway Card Phone/Modem driver. Teleon Gateway Card is intrinsically a PCTel-688 modem card.
3. It will install application manager program, which is a middleware high-level driver between Teleon Audio Play/Record Devices and user application. For Teleon Gateway for Skype Lite, it is TeleonMan.

For Teleon Gateway Driver Generic, since it is developer oriented, the developer needs to develop his own application manager program to link the Teleon Gateway card/driver to his VoIP software. Pay attention that Teleon Gateway card/driver only accept 8kz or 48kz sample rate voice data.

4. It will install uninstall facility. When you want uninstall Teleon Gateway driver, go to Program -> Teleon Gateway Driver, click Uninstall TGDriver. Un-installation will be automatically carried out.
5. It will install document files. Most important file is TeleonConfiguration.txt file, which can be shown on Desktop. You need to set up related data correctly to make Teleon Gateway work.

4. System Requirements

The driver requires PC running Windows 2000 or XP. You need to have at least a 900 MHz processor, 256 MB RAM and 20 MB free disk space on your hard drive to ensure the performance.

The Teleon Gateway Driver for Skype Lite 1.76 requires Skype version 1.3.0.57. Other version of Skype may be compatible but without guarantee.

5. Installing the driver and card

5.1. Installing the driver

This driver package is used when your PCTel chipset PCI modem card has been installed. Otherwise, you can use Teleon-Driver-DBxxx and its Teleon-GatewayDriver-SkypeLite-Bxxx-Setup.exe, which install both gateway driver and card driver at one time.

Run Teleon-GatewayDriver-SkypeLite-Axxx-Setup.exe and it will automatically install Teleon Gateway drivers. In fact 2 separate drivers will be installed sequentially: Teleon Audio Play Device driver and Teleon Audio Record Device driver .

In the installation process, there will be 2 prompt windows like the following to ask you if continue or not.



Simply click “ Continue Anyway” to continue installation.

5.2. Uninstalling the driver

Click Uninstall TGDriver icon in the Teleon Gateway Driver program group, it will run unis00x.exe and automatically uninstall all the drivers and associated programs.

6. How to use Teleon Gateway

6.1. How to make Skype to PSTN Call

If Skype user A wants to make a PSTN call via Skype user B, A must be in B's contact list. That is, only buddy or authorized remote can make use of the phone port.

To make Skype call be forwarded to B party's local PSTN number, B party's PC should install the Teleon Gateway card and driver. There is no need for caller PC to install anything special except Skype application itself.

The configuration file TeleonConfiguration.txt has an entry AllowIPtoPhone, it must be set to Y:
AllowIPtoPhone=Y.

The caller should send a Skype chat message “ atd xxxxxxxx” before making a Skype call, or make a Skype call first and then send a Skype chat message “ atd xxxxxxxx” before the callee answered the Skype call. Where xxxxxxxx is the remote PSTN phone number. The max number of digits is 10.

Caution

The forwarded PSTN phone number cannot be 911, any number starting with 0 or 1.

In special release TGD-A176nic, the forbidden forwarded PSTN phone number is 911 only. The max number of dialed digits is 11.

6.2. How to make PSTN to Skype Call

To make PSTN to Skype call, AutoAnswerPhoneCall entry in TeleonConfiguration.txt must be set to Y:

AutoAnswerPhoneCall=Y. You also need to set AutoAnswerPhoneCallRingTimes=xx, where xx is the times of rings before Teleon Gateway card automatically answer the call.

You need also configure a set of abbreviated number and its corresponding remote Skype user name. For example, 22=test99990010.

If you correctly set the above data up, when a call reaches your phone line which is supposedly connected to your Teleon Gateway card's line port, it will be answered after a number of rings. After answered, a confirmation

tone " Di..Di" will be sent out, prompt you to dial an abbreviated number. This number should be preset in the TeleonConfiguration.txt.

Please note that you need dial abbreviated number plus #, for example, 22#, 33#, etc.

6.3. How to make PSTN to PSTN Call

Refer to 6.2. The only difference is for PSTN to PSTN call, you need to dial 22*xxxxxxxx#, where xxxxxxxx is the remote PSTN phone number. The max number of digits is 10.

For PSTN to PSTN call, the called party Skype cannot set the call be automatically answered.

6.4. How to block gateway function.

If you want to disable IP to PSTN forwarding in your PC, set AllowIPtoPhone=N in TeleonConfiguration.txt.

If you want to disable PSTN to IP forwarding in your PC, set AutoAnswerPhoneCall=N in TeleonConfiguration.txt.

Caution

Every time you make changes in TeleonConfiguration.txt file , remember to save the file. After save, it will take about 10 seconds to take effect.

7. Appendix

7.1. TeleonConfiguration.txt

The text file TeleonConfiguration.txt is the configuration file for Teleon Gateway application control. After drive installation, it is mapped on the Desktop. You can click it icon on the Desktop, edit it and then save it. The settings will be effective within 10 seconds.

The content of TeleonConfiguration.txt is listed in the following:

[IPtoPhone]

AllowIPtoPhone=Y

; select Y or N to allow or deny the incoming calls from Skype to be forwarded to PSTN.

; to forward call, the caller need to send a chat msg "atd xxxxxxxx" before make

; Skype call, where xxxxxxxx is a local phone number.

IPtoPhoneFixTransferNum=87654321

; if define the fix transfer number, calls will be forwarded to PSTN fix number if no
; one answered the Skype call for 30 seconds.

[PhoneToIP]

AutoAnswerPhoneCall=Y

; select Y or N to allow or not allow Teleon Driver automatic answer calls from PSTN
; and forwarding from PSTN to Skype.

AutoAnswerPhoneCallRingTimes=2

; if allow automatic answer calls from PSTN, define number of rings before answer.

[DialPlan]

22=test00000010

33=test00000011

44=test88880012

55=test88880013

; for PSTN to IP call, define the Skype abbreviated-number and its remote name for PSTN
; to Sype call. should dial # after dial abbreviated-number, i.e. 22#, 33#, etc.
; you can also call remote PSTN by dialing 22*xxxxxxxx#, where xxxxxxxx is a remote phone number.

[DEBUG]