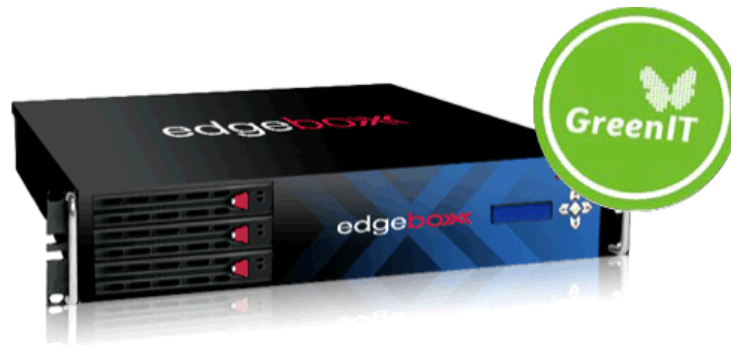




Dramatically simplifying voice and data networking



# edgeboxx

## Click2Dial HOW-TO Guide



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# Introduction

This document is a step-by-step guide to help Critical Links' Partners, Customers and End-Users to install and use SIP TAP integrated with the edgeBOX™ platform to provide a Click2Dial service with TAPI enabled applications.

## TAPI Overview

The Telephony Application Programming Interface (TAPI) is a Microsoft Windows API, which provides computer telephony integration and enables PCs running Microsoft Windows to use telephone services. Different versions of TAPI are available on different versions of Windows. More information is available on Wikipedia:

[http://en.wikipedia.org/wiki/Telephony\\_Application\\_Programming\\_Interface](http://en.wikipedia.org/wiki/Telephony_Application_Programming_Interface)

## SIP TAPI Background

SIP TAPI is an application developed by Klaus Darilion at enum.at. The SIP TAPI is a TAPI driver, which enables SIP click2dial functionality from TAPI applications (like MS Outlook, Phoner, ACT ...).

The work is based on AstTAPI, a TAPI driver which connects to Asterisk via the manager interface (a telnet connection into Asterisk). Klaus Darilion removed all the asterisk/telnet related stuff and replaced it with a SIP stack (eXosip2). Thus, it should work with all SIP based applications (which understand the REFER request).

How does it work?

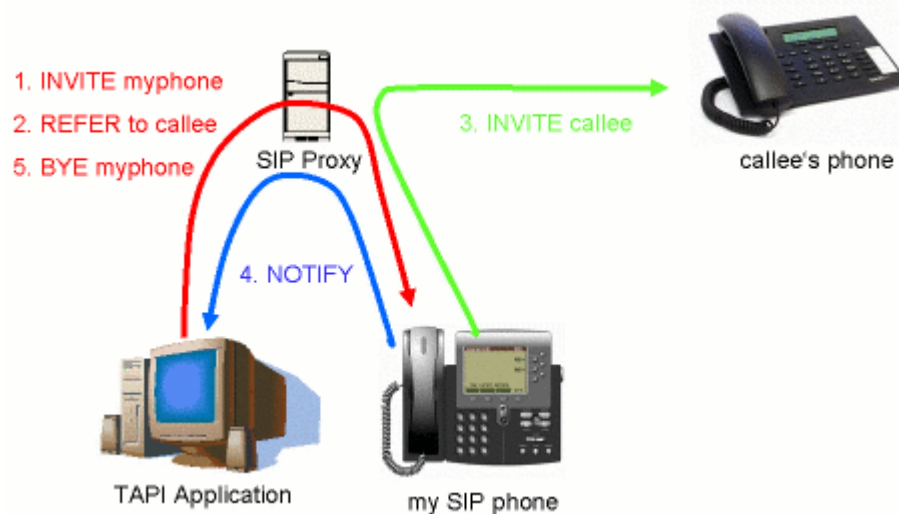


Fig. 1 – How does SIP TAPI Work

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The SIPTAPI sends an INVITE request to your own SIP phone. When you pick up the phone and the call between the SIPTAPI and your phone is established, the SIPTAPI sends a REFER request to your phone. This REFER request contains the originally called phone number in the Refer-To: header. Thus, your SIP phone will establish a new call to the respective phone number.

For download location and instructions please refer to “Installing” Chapter. More information is available on **enum.at** website: <http://www.enum.at/SIP-TAPI.479.0.html>

# Installing

Please follow the next step-by-step guide in order to have your SIP TAPI correctly installed on your PC:

1. Download the binary from:

[http://sourceforge.net/project/showfiles.php?group\\_id=146322](http://sourceforge.net/project/showfiles.php?group_id=146322)

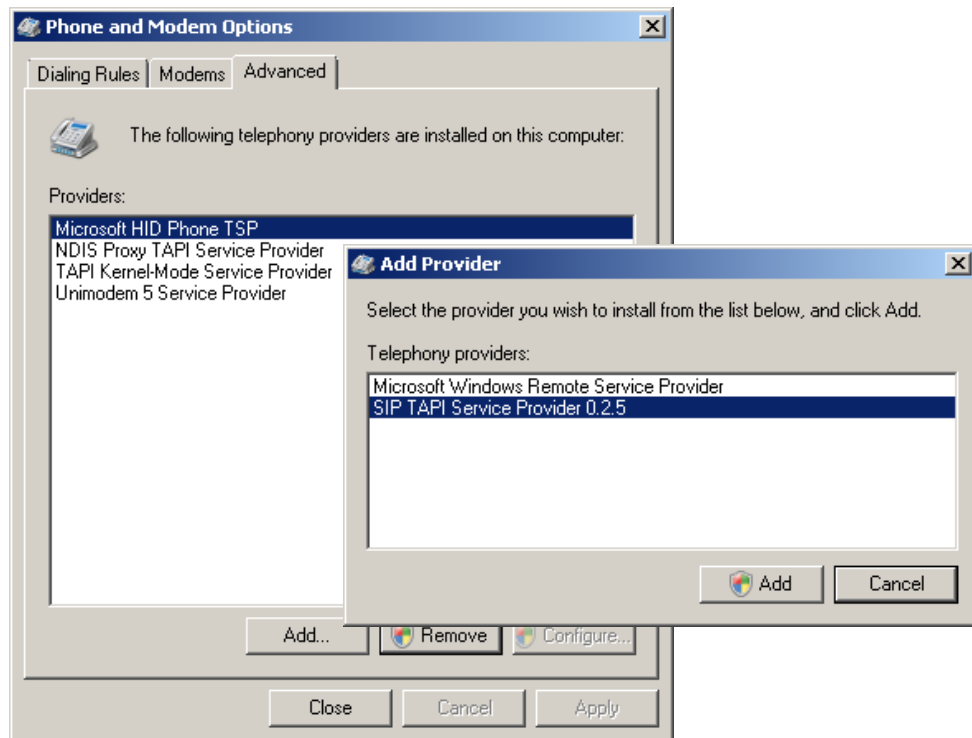


Click on “Download” link, and get the “.zip” file. Last available version is 0.2.5 from October 6<sup>th</sup> 2008.

2. Uncompress the .zip file and move **siptapi.tsp** file to your **%SystemRoot%/System32** folder (for example C:\WINDOWS\System32
3. Install the TAPI driver via the control panel: Start -> ControlPanel -> PhoneAndModemOptions -> Advanced -> Add -> SIP TAPI Service Provider



These locations may vary accordingly to your MS Windows System’s language.



# Configuring SIP TAPI

Please follow the next step-by-step guide in order to have your SIP TAPI correctly configured.

1. At your Control Panel's "PhoneAndModemOptions" select "SIP TAPI Service Provider 0.2.5" and press "Configure":

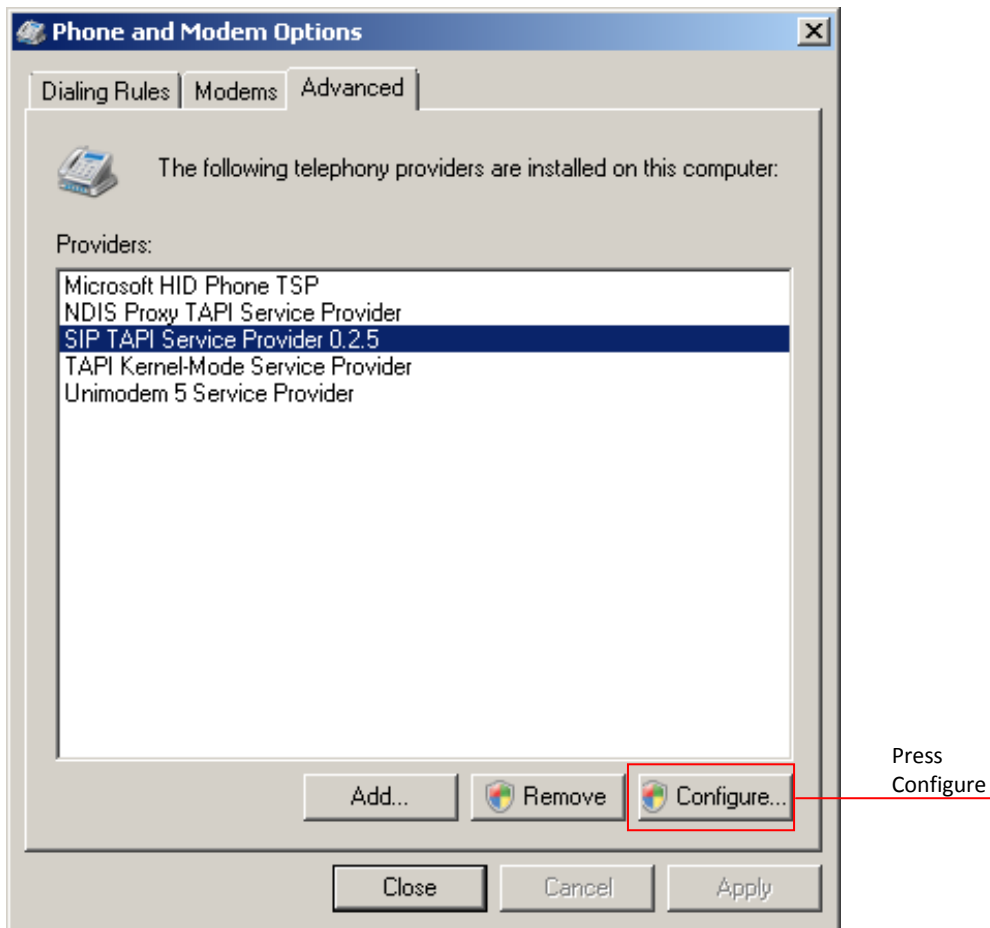


Fig. 3 – Press "Configure"

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### 2. Configure the fields for SIP TAPI:

The screenshot shows a dialog box titled "Configure SIP TAPI Service Provider". It contains two sections: "SIP Configuration" and "User Information".

- SIP Configuration:**
  - SIP Domain:** Contains "bogus.edgebox.com" (marked with a red box and number 1).
  - SIP Outbound Proxy:** Is empty (marked with a red box and number 2).
- User Information:**
  - User:** Contains "bogus\_user" (marked with a red box and number 3).
  - Password:** Contains "\*\*\*\*\*" (marked with a red box and number 4).
  - User's extension (optional):** Is empty.

At the bottom, there are three buttons: "OK" (marked with a red box and number 5), "Apply", and "Cancel".

Footer text: "SIP TAPI Service Provider. For help and information qot to www.enum.at v\_0.2.5"

Fig. 4 – SIP TAPI Configuration Screen

1. SIP Domain: the domain of your SIP URI
2. SIP Outbound Proxy: the IP address or domain of the OBP
3. User: the SIP username of your SIP URI
4. Password: the SIP password
5. Press OK when done!



The SIP TAPI does not support NAT traversal. Thus, you must register to a SIP proxy that does NAT traversal, or use a dedicated outbound proxy. For example, if your SIP URI is sip:bogus\_user@bogus.edgebox.com and you are behind NAT, configure the TAPI:

SIP domain: bogus.edgebox.com

SIP outbound proxy: bogus.edgebox.com:5082;lr

User: bogus\_user

Password: \*\*\*\*\*

Note: If you do not need an outbound proxy, leave this field empty. If you specify an outbound proxy make sure to add the ";lr" parameter (without "").

# SIP TAPI with your MS Office Outlook

The following section describes how to configure MS Office Outlook to use SIP TAPI to have your Click2Dial service working.



Be sure that you have restarted your Outlook after SIP TAPI configuration.

1. Select a contact from your Outlook's Address Book;
2. Choose "Call Contact" for that contact:

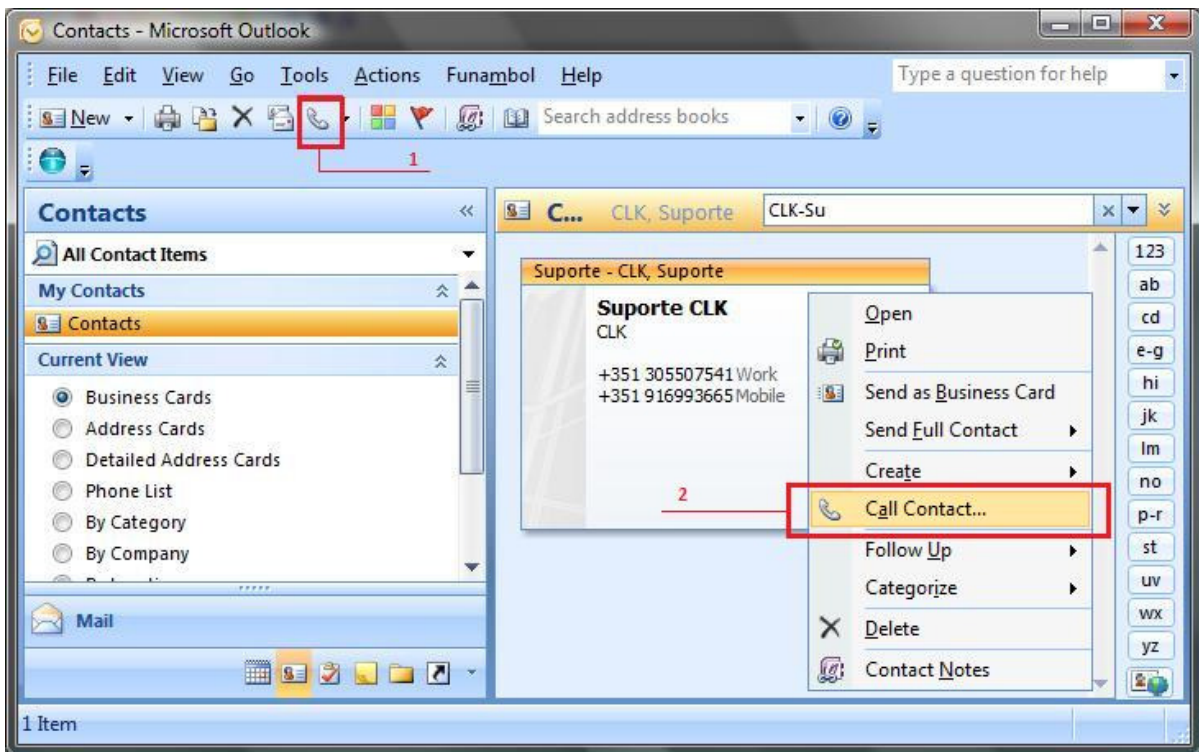


Fig. 5 - Call Contact



You may choose one of the two methods

1. Click the handset icon
2. Right-click your mouse over the contact and chose "Call Contact"

3. On the “New Call” window, select “Dialing Options...”

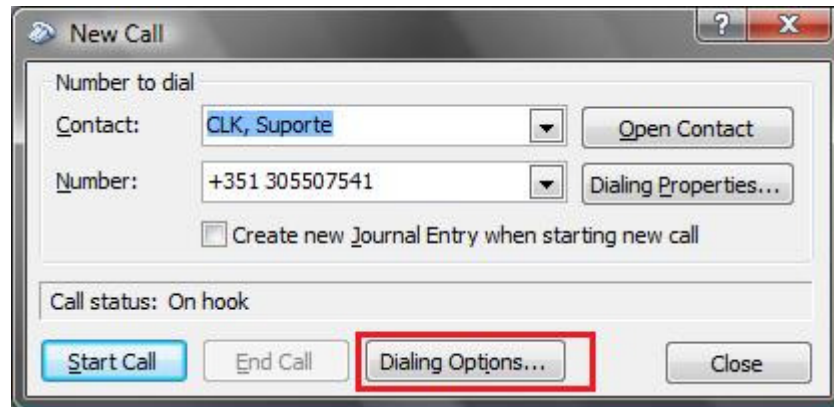


Fig. 6 - New Call - Dialing Options...

4. On the “Dialing Options...” window, go to the drop-down list “Connect using line” and select “Linename: SIP TAPI for click2dial” and press OK

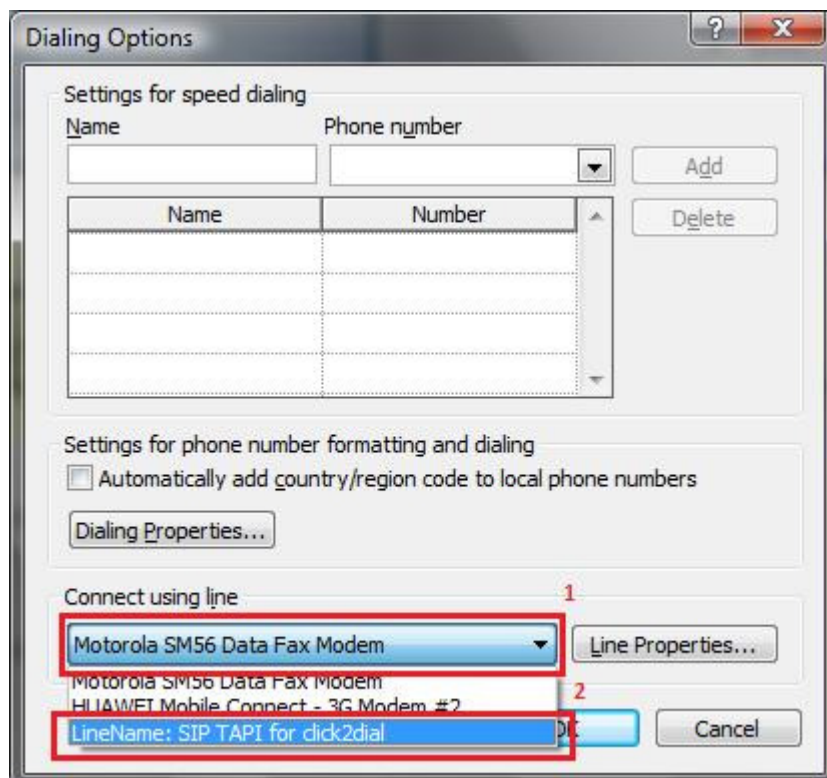
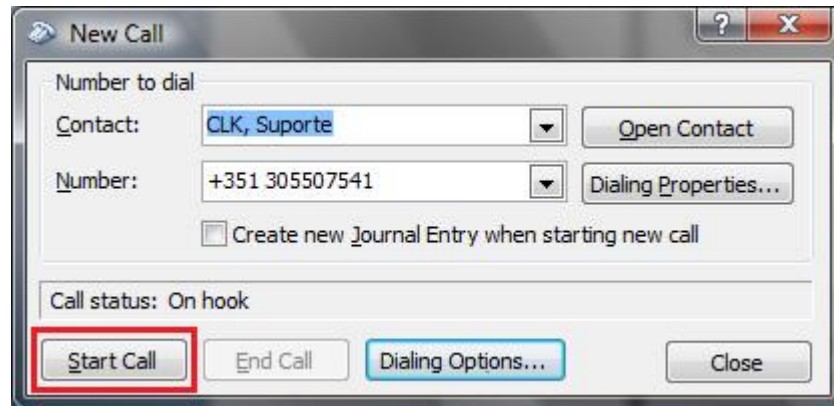


Fig. 7 - Connect using line

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5. Again on “New Call” screen press “Start Call”



*Fig. 8 - Start Call*

6. Your extension will ring. Pick up the call and wait for edgeBOX to call your Contact!



You need to follow steps 3 and 4 only for the first call. After that, those settings will be saved. If you need to change SIP TAPI configuration always follow the “Configuring SIP TAPI” Chapter and restart Outlook to be sure the new settings will be applied.