

SIP TAPI

A click2dial application, based on asttapi and eXosip2 Klaus.Darilion@enum.at

Scenario



1.



→ dial callee's numer in TAPI application (e.g. Outlook)

2.



→ caller's phone rings, pick up!

3. → caller's phone INVITEs callee

4.



→ callee's phone rings

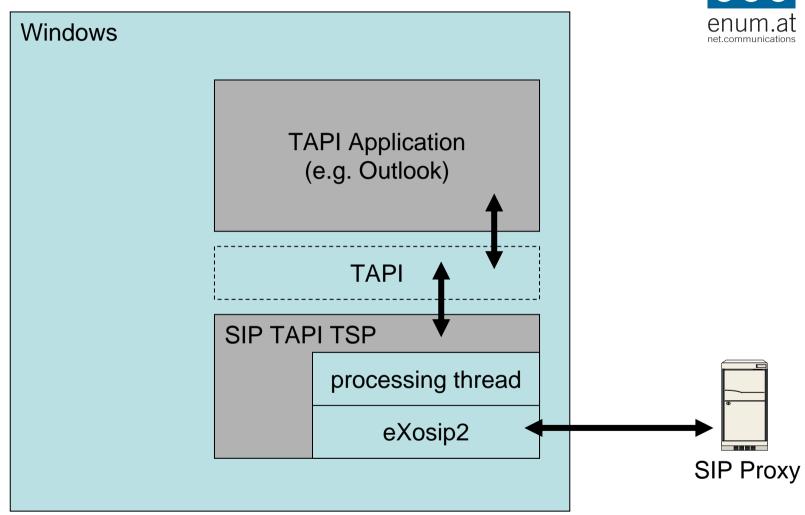
Call Flow





TAPI structure

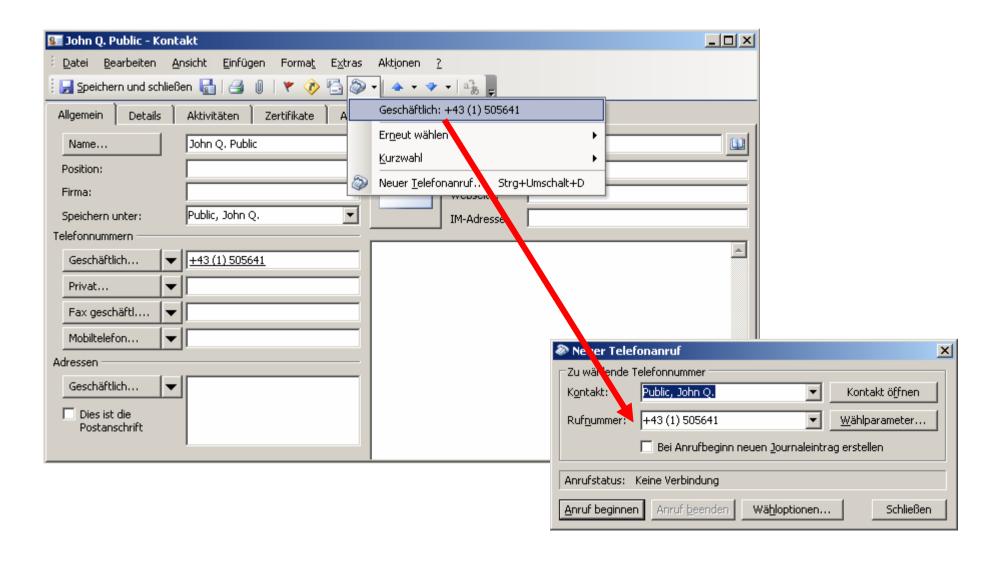




TAPI dialing

• e.g. Outlook



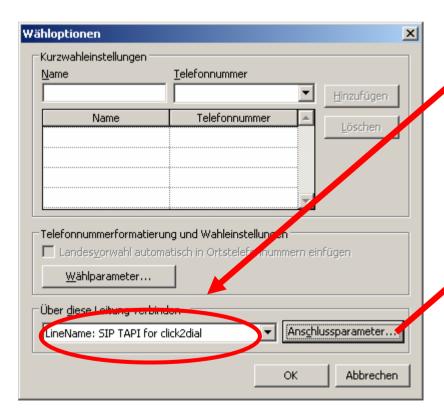


TAPI dialing

• e.g. Outlook







Configure SIP TAPI Ser	vice Provider	
SIP Configuration		
SIP Domain	enum.at	
SIP Outbound Proxy	83.136.32.162	
User Information		
User	klaus	
Password	•••••	
OK]	Apply Cancel	
SIP TAPI Service Provide For help and information	ider. on got to www.enum.at	

Technology

- Microsoft TAPI
 http://msdn.microsoft.com/library/default.asp?url =/library/en-us/dnanchor/html/tapitspimspi.asp
- asttapi TAPI provider for asterisk http://sourceforge.net/projects/asttapi/ © Nick Knight
- eXosip2/osip SIP stack + high level API http://www.gnu.org/software/osip/osip.html http://savannah.nongnu.org/projects/exosip/ © Aymeric Moizard

Limitations

- no STUN support → NAT traversal requires StP
 proxy with NAT traversal or outboundproxy (rport supported)
- no SRV support, resolves only A records (no problem if the outboundproxy performs SRV)
- probably buggy TAPI implementation
- some TAPI applications require strange phone number formats, e.g. Outlook: +43 (1) 505641
 - → +country code (local area code) number

ToDo



- STUN
- SRV
- ENUM
- check sipfrag response code in NOTIFY
- allow regexp applied to phone number

how to get it



- www.enum.at → Using ENUM → siptapi
- License: GPL
- Installation:
 - copy siptapi.tsp into the windows\system32 directory
 - ControlPanel → PhoneAndModemOptions → Advanced → Add → SIP TAPI Service Provider
 - SIP TAPI Service Provider → Configure...
 - configure your username, password, SIP domain and outboundproxy
 - debug using Sysinternals DebugView: http://www.sysinternals.com/ntw2k/freeware/debugview.shtml

Configuration

