

VoIP con programmi “liberi” e che utilizzano protocolli standard

Giovanni Ridolfi

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Outline

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 - VoIP
 - Standard Protocols
 - Free Software
- 2 The clients
 - Lots of clients
 - The chosens
 - Ekiga
 - Minisip
 - WengoPhone
- 3 Conclusions
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Acknowledgments

Alberto Maurizi Free Software Foundation, GNU Project,

Powered by:

Debian GNU/Linux(powerpc),

Emacs

Muse

L^AT_EX-Beamer

xpdf

How VoIP ?

- At CNR
- A Computer (Microphone Headphones)
- Fast Internet connection
- **NO** cordless usb
- Needs for VoIP:
 - a Computer,
 - a client,
 - a provider that creates a network

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Standard protocols

The standard protocols for new generation phone network are:

- H323
- Session Initiation Protocol, SIP

For their Pros and Cons, please read:

H323 vs SIP

A comparison

A comparison in Italian

SIP and H323

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Free as in Freedom



The 4 Freedoms

- 1 The freedom to **run** the program, for any purpose.
- 2 The freedom to **study** how the program works, and **adapt** it to your needs.
- 3 The freedom to make and redistribute **copies**.
- 4 The freedom to improve the program, and **release** improvements.

Clients and Features

A list from: Wikipedia comparison of VoIP software

- All the programs
- Free
- Cryptography

► Security

- Portable 3 OS = GNU/Linux, MacOS, Windows
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The choice

Program	<u>Free</u>	Cryptography	3 OS	Protocol
64	16	7	Coccinella	XMMP, Jabber, IAX
			Ekiga	SIP, H323
			Jabbin	Libjingle, XMMP, Jabber
			Minisip	SIP
			WengoPhone	SIP , Yahoo! MSN, Jabber, GoogleTalk

Ekiga 2.0.3

Ekiga



Features

- Supported protocols:
H323, SIP
- Problems: NO
CRYPTOGRAPHY
- Windows beta version [link](#)
- [Interesting review](#)

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Minisip 0.8 - 0.7.1 Windows

Minisip

Features

- Supported protocol: SIP
- phone calls, video calls, instant message to your buddies connected to the same SIP network
- Focus on security: TLS, end-to-end security, SRTP, MIKEY (DH, PSK, PKE)
- Runs on multiple Operating Systems (Linux PC, Linux familiar IPAQ PDA, Windows XP and soon Windows Mobile 2003 SE)
- Multiple lines (users) on the same phone Multiple incoming/outgoing calls simultaneously

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SIP Networks

SIP Networks

- Wikipedia list of VoIP companies (it)
- list of Italian VoIP providers
- wiki page about VoIP
- Ekiga
- OpenWengo
- Telio

OpenWengo

Wengo is a VoIP provider from France. their goal is to make standards-based SIP telephony available to all.

Their client: WengoPhone.

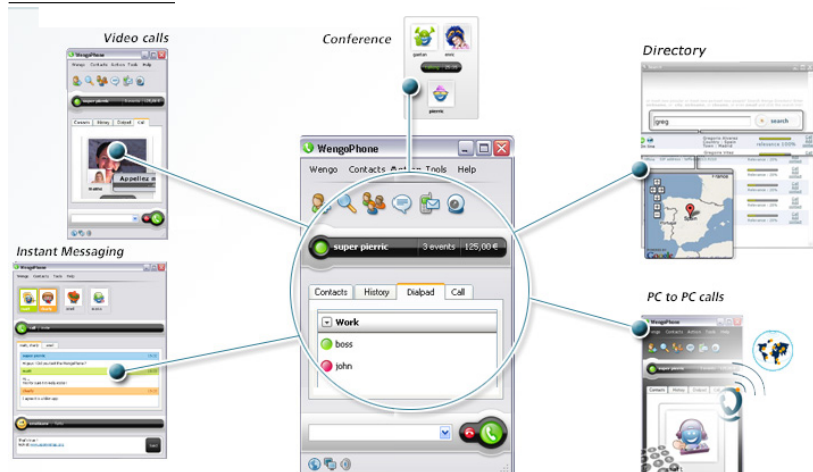
User guide

wengo-phone-skype Interesting comparison (Italian)

Firefox Wengophone extension

WengoPhone 2.0

wengophone



Fees

	Destinations	wengo	Skype	With Wengo, I save	Yahoo	With Wengo, I save	MSN	With Wengo, save
Europa	France	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	United Kingdom	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Spain	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Germany	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Italy	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Poland (Varsaw)	0,013 €	0,017 €	24 %	0,015 €	13 %	0,020 €	35 %
	Moscow, St Petersburg	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
Américas	USA (1)	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Canada	0,008 €	0,017 €	53 %	0,010 €	20 %	0,020 €	60 %
	Mexico, Monterrey	0,015 €	0,017 €	12 %	0,015 €	0 %	0,020 €	25 %
	Argentina (2)	0,015 €	0,026 €	42 %	0,019 €	21 %	0,030 €	50 %
	Brazil (3)	0,042 €	0,044 €	5 %	0,035 €	-20 %	0,045 €	6 %
Asia	China	0,010 €	0,017 €	41 %	0,012 €	17 %	0,020 €	50 %
	Vietnam	0,151 €	0,267 €	43 %	0,160 €	6 %	0,280 €	46 %
	India (4)	0,070 €	0,125 €	44 %	0,099 €	30 %	0,130 €	46 %
	Taiwan	0,011 €	0,017 €	35 %	0,012 €	8 %	0,020 €	45 %
	Australia	0,014 €	0,017 €	18 %	0,015 €	7 %	0,020 €	30 %
	Israel	0,015 €	0,028 €	46 %	0,025 €	40 %	0,030 €	50 %

Conclusions

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-
-
- Download WengoPhone!

My privacy!



Reuters

► Return



AP

Jajah

Jajah: web activated telephony; Jajah faq



Features

- landline and mobile calls to and within:
the US; Canada; China; Hong Kong, Singapore and Taiwan, landline calls to and within:
Australia; UK; Germany; France, Italy and most other European nations.
- JAJAH "Fair Use" Policy ?
- active account?

History

This presentation was originally given on 5 December 2006 in Bologna, Italy at the workshop:
"Telefonia su Internet in Area (VoIP: Voice over IP)", at the Area di Ricerca of the Italian National Research Council

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