

IP TELEPHONY - VOIP

Computer Telephony Integration



FLASH NEWS

- Panama is the latest country to start banning IP telephony across its borders. Panama is now among numerous countries that ban international IP telephony, with the list including Mexico, Israel, Egypt, and Cuba.



Independence day of IP TELEPHONY:

- Using IP telephony traffic over port 80, the internet port.
- The world will change now inevitably."

"Federal Communications Commission"



IN THE PAST CENTURY

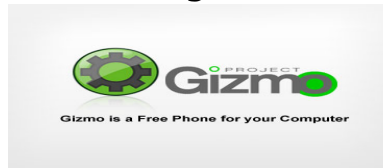
The public switched telephone network (PSTN) has given us call waiting, caller ID, and a useful of other services.

WITH VOIP

The number and type of services available to people by phone is about to explode. Already, there are great and many new applications that allows people to many unused telephony things.

PRODUCTS AT MARKET

- eBays Skype, Gizmo Project, Vivox, Yahoo Messenger, MSN Messenger, AOL TotalTalk, Paltalk, Sony IVE, GoogleTalk, Net2phone, Spontania video4IM, Spirit, LiveMeeting, NetMeeting



BENEFITS OF IP TELEPHONY

○ Available additional Services:

- Use voice to compose or respond to email through either a wireless or enterprise voice mail system (w2.trekmail.com)
- Pay for parking spaces by phone, without the need for coins, tickets or stickers (Spark Parking)
- Provide hospital personnel with voice-controlled communications badges using VoIP over WiFi (Vocera Communications)
- Connect to Amazon.com by cell phone to get comparative prices and reviews for items available in the stores they browse (Ringfo)

○ Up Coming Services:

- We can send people SMSs with ISMS (internet short messaging service) of information to mobile users seeking everything from driving directions to weather forecasts.
- We may establish mobile social - networking services
- We may intend services like -parking space reservation or - traffic jam alerts or - location based personal reminders.



PROBLEMS OF IP TELEPHONY

- Collecting taxes on calls made.
- With WI-FI IP Telephony enabler company will have the ability to place real-world addresses in relation your current location – for an example, playing with Google Earth
- Knowledge of your location at all times as determined by WiFi location tracking technologies, such as Android (Location Navigator) or Feeva
- Voice Security, Unwanted ears security



andy rubin
arubin@robot.net

PAYMENT ISSUE:

- PayPal is looking to initiate micro-payment structures that will enable buyers of IP telephony services to pay the providers.



PayPal



LATEST IMPROVEMENTS:

- Tellme and Voxeo are creating entirely new voice services opportunities for developers and enterprises.



- Pingtel and Digium's open source IP PBX platforms are fear for traditional telcos.






WHERE THE IP TELEPHONY IS GOING?

Internet world is just reaching critical mass.
Developers now have the right tools and the right motivation to build a wide range of

- New Desktop Applications,
- Telephone Services,
- Corporate Phone Systems that integrate voice with the Web,
- IM,
- WiFi,
- Multipoint Conferencing and more.

WHAT ARE THEY THINKING ABOUT VOIP:

- “I knew it was over when I downloaded Skype,
Michael Powell, Chairman,
- “When the inventors of KaZaA are distributing for free a little program that you can use to talk to anybody else, and the quality is fantastic, and it’s free – it’s over. The world will change now inevitably.”
Federal Communications Commission
- “The idea of charging for calls belongs to the last century. Skype software gives people new power to affordably stay in touch with their friends and family by taking advantage of their technology and connectivity investments.”
Niklas Zennström, CEO & Co-founder of Skype
- “Except the being trackable and security issues, I will be very glad to use this new technology as I am sometimes using it.”
Vedat Öndaş, Sabancı University, Master Fellow



IS IT OVER?



OPEN SOURCE PBX for IP TELEPHONY AND VOIP

- **You may make your own SKYPE!**
- HOW?
- Lets follow the next slight

OPEN SOURCE PBX: sipX

- Introduction:
- <http://www.voip-info.org/wiki-sipX>
- <http://www.sipfoundry.org/>
- The sipX solution is an Enterprise SIP Open Source PBX VoIP solution complete with voice mail and auto-attendant. Alternatively, sipX can be used as a high performance Enterprise toll-bypass SIP router. It combines all common calling features, XML-based SIP call routing, voice mail and auto-attendant, Web-based configuration, as well as integrated management and configuration of the PBX and attached phones and gateways. sipX is a modular server based solution that runs on standard Linux. sipX does not require any additional hardware as it interoperates with any SIP compliant gateway, phone or application. sipX Solution Summary
- sipX is a native SIP communications solution strictly following and implementing all the relevant SIP IETF standards.

THE OPEN SOURCE PBX: Asterix

- Astlinux is a bundled distribution of the Asterisk open source iPBX private branch exchange (PBX) software and a Linux operating system. Originally developed by Mark Spencer at Digium, Asterisk is the leading open source software in the telephony/VoIP space. Asterisk excels at combining traditional TDM telephony capability - provided through hardware from Digium and others - with VOIP services. These include call routing, media gateway, media server and SIP signaling capabilities.
- **Building an Embedded Asterisk PBX:**
<http://www.tomsnetworking.com/Sections-article153.php>
- Introduction: http://www.voip-info.org/wiki/view/chan_sccp2
- **Channel Driver** - sccp driver for Asterisk:
ftp://ftp.berlios.de/pub/chan-sccp/chan_sccp-20051217.tar.bz2