Community Based Internet Telephony in Indonesia

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Onno W. Purbo

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- Ex Lecturer at Institute of Technology Bandung
- Independent IT Writer
- http://id.wikipedia.org/Onno_W_Purbo

Overview

- Some Legal Stuff
- VoIP Merdeka – the early community based VoIP.
- VoIP Rakyat – SIP based VoIP

How To Trick The Legal System

- License NEEDED for
  - Public Service
  - Commercial Service
  - Connected to Telco Infrastructure
- NO License for
  - Private Application
  - Non-Commercial
  - Not Connected to Telco

Thus, It's OK …

- PC – PC
- PC – Analog Telephony Adapter

- The Grand Trick is …
  - Create A Large Virtual Private Network :))

Thus, It's OK … IF …

From / To	PC	ATA-handset	ATA-PBX	ATA-Telco
PC				
ATA-handset				
ATA-PBX				
ATA-Telco				

VoIP Merdeka (MaverickNet)

- VoIP Merdeka is H.323 based

Historical Background ..

- 1 January 2003 – Indonesian Government will increase Indonesian Telco Tariff by 30% (average).
- 6 January 2003 – the first Public Gatekeeper of VoIP Merdeka born.
- 12 January 2003 – VoIP Merdeka declared of its independence.

Underline System ..

- No Government Support
- No Government Funding
- No World Bank Funding
- No IMF Funding

- Lots of volunteer
- Lots of donation of bandwidth & harddisk space.

VoIP Merdeka at the peak

- 2500+ Registered Users
  - I am not a registered user …
  - Estimated 2-3 x for unregistered users
- 100-150 H.323 Gatekeepers
  - VoIP Telephone Softswitch
- Neighbors in 6 Countries
  - Singapore, Canada, Germany, England, Sudan, Japan.
- Approx. 1000 calls / day in major H.323 gatekeepers.

2005 VoIP Merdeka Ceased Operation

- NAT is a BIG Problemfor public Internet Telephony.
- H.323 VoIP Merdeka technology is currently largely adopted by corporates to bypass their long distance calls. Some lately migrate to SIP.

~2005 VoIP Rakyat

- Lead by Anton Raharja & his gang.
- SIP based
- Asterisk based

VoIP Rakyat - Home - Microsoft Internet Explorer

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Address http://www.voiprakyat.or.id/ Go Links

VoIP Rakyat

free communications for people

Home Forum Blogs Links Contact Us

calls
minutes
Active ca
Online ca

Polls

Voice c
utama

- Home
- Register Free VoIP Number
- Online Phones
- Phonebook
- Call Data Record
- Update Preferences

Latest News

- Botnet Ancam Pengguna Skype
- Apple dan Skype Tertutup
- Layanan Voice Conference
- Critical Update Asterisk 1.2.3
- IM Federation

Popular

- Forum VoIP Rakyat
- Botnet Ancam Pengguna Skype
- Asterisk 1.2.2
- IM Federation
- Layanan Voice Conference

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Internet

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- Home
- Register Free VoIP Number
- Online Phones
- Phonebook
- Call Data Record
- Update Preferences
- Forgot Password
- Download Documents
- Download Softphones

Home ▸ Register Free VoIP Number

Register Free VoIP Number

Real Name : onno-test1

Email : onno@indo.net.id

Location (City) : Jakarta

Note: Please use your current email address and location

Register

calls
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VoIP Rakyat - Register Free VoIP Number - Microsoft Internet Explorer

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- Phonebook
- Call Data Record
- Update Preferences
- Forgot Password
- Download Documents
- Download Softphones

Home ▸ Register Free VoIP Number

Register Free VoIP Number

Hello onno-test1, you have successfully registered new phone number.

Your phone number : **21235**

Your username or account name is your phone number (21235).

Your password : **abc1092**

Our VoIP server address : **voiprakyat.or.id**

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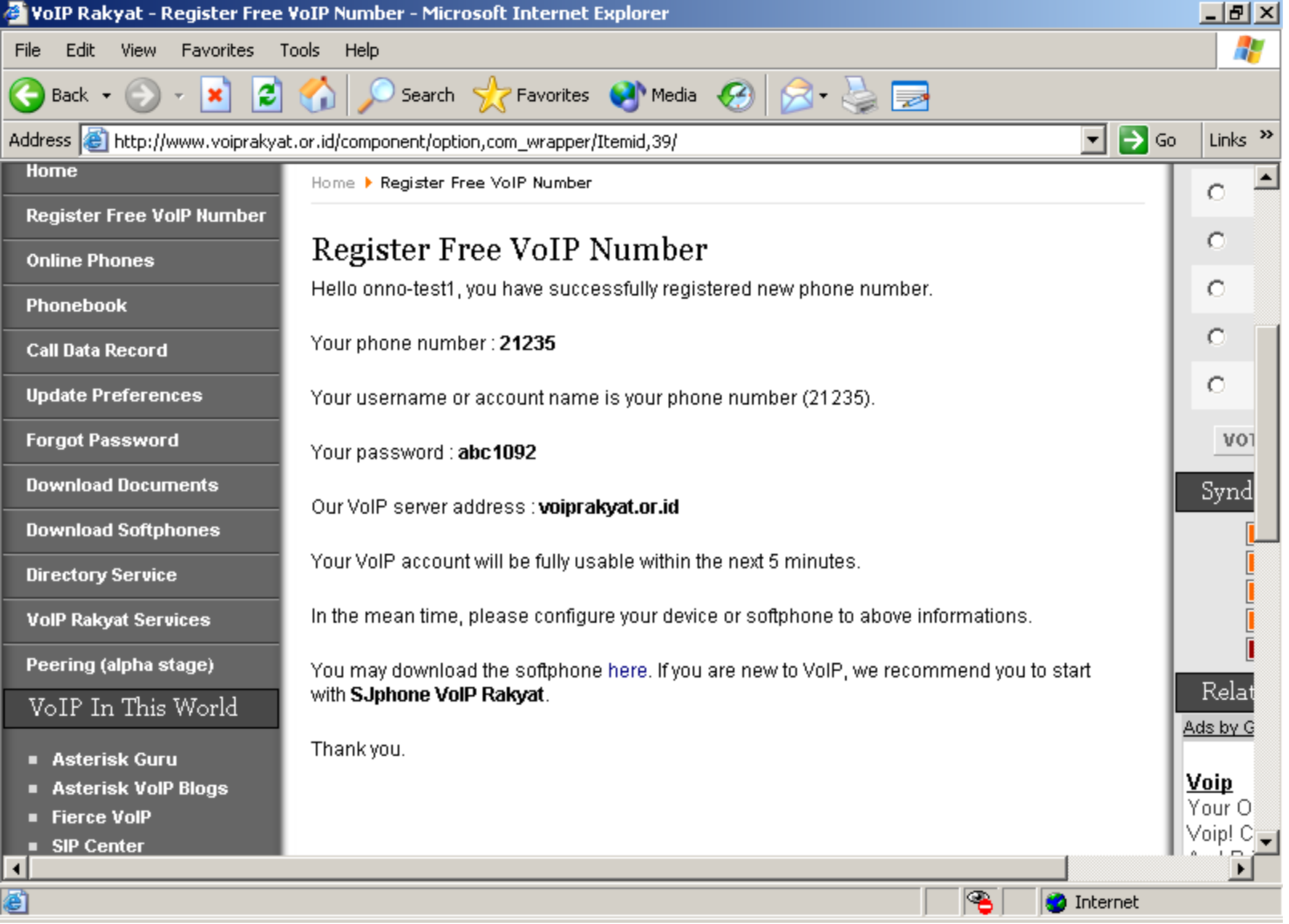
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Online Phones
Phonebook
Call Data Record
Update Preferences
Forgot Password
Download Documents
Download Softphones
Directory Service
VoIP Rakyat Services
Peering (alpha stage)
VoIP In This World
Asterisk Guru
Asterisk VoIP Blogs
Fierce VoIP
SIP Center
Home ▸ Register Free VoIP Number
Register Free VoIP Number
Hello onno-test1, you have successfully registered new phone number.
Your phone number : 21235
Your username or account name is your phone number (21235).
Your password : abc1092
Our VoIP server address : voiprakyat.or.id
Your VoIP account will be fully usable within the next 5 minutes.
In the mean time, please configure your device or softphone to above informations.
You may download the softphone here. If you are new to VoIP, we recommend you to start with SJphone VoIP Rakyat.
Thank you.
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VoIP Rakyat - Online Phones - Microsoft Internet Explorer

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Online Phones

Online SIP phones: 9

*	Phone	Name	Location	Status
1.	20282	HKBP CALIFORNIA (Robinson Pasaribu)	Los Angeles	OK (268 ms)
2.	21164	linus	Jakarta	OK (114 ms)
3.	21022	Jarkasih	Jakarta City	OK (6 ms)
4.	20799	caksukur	lumajang	OK (509 ms)
5.	20590	Alan Gitu	Jakarta (rr1)	OK (6 ms)
6.	20559	Didin Tarsidin	Bandung	OK (37 ms)
7.	20297	Gatot	Jakarta	OK (117 ms)
8.	20288	zudha	yogya	OK (112 ms)
9.	20281	onnowpurbo	Jakarta	OK (81 ms)

Note: update per minute

Online IAX phones: 3

*	Phone	Name	Location	Status
1.	20890	Donny Ajo	Jakarta Selatan	Unmonitored

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Update Preferences
Forgot Password
Download Documents
Download Softphones
Directory Service
VoIP Rakyat Services
Peering (alpha stage)
VoIP In This World

- Asterisk Guru
- Asterisk VoIP Blogs
- Fierce VoIP
- SIP Center
- VoIPBlogs.com
- VoIP Gadget
- VoIP Info
- VoIP LowDown
- VoIP News
- VoIP Now
- VoIP Rakyat Blogs

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Note: update per minute

Online IAX phones: 3

*	Phone	Name	Location	Status
1.	20890	Donny Ajo	Jakarta Selatan	Unmonitored
2.	20246	VoIP ICT Center Pontianak	pontianak	Unmonitored
3.	20208	VoIP Wankota Bandung	bandung	Unmonitored

Note: update per minute

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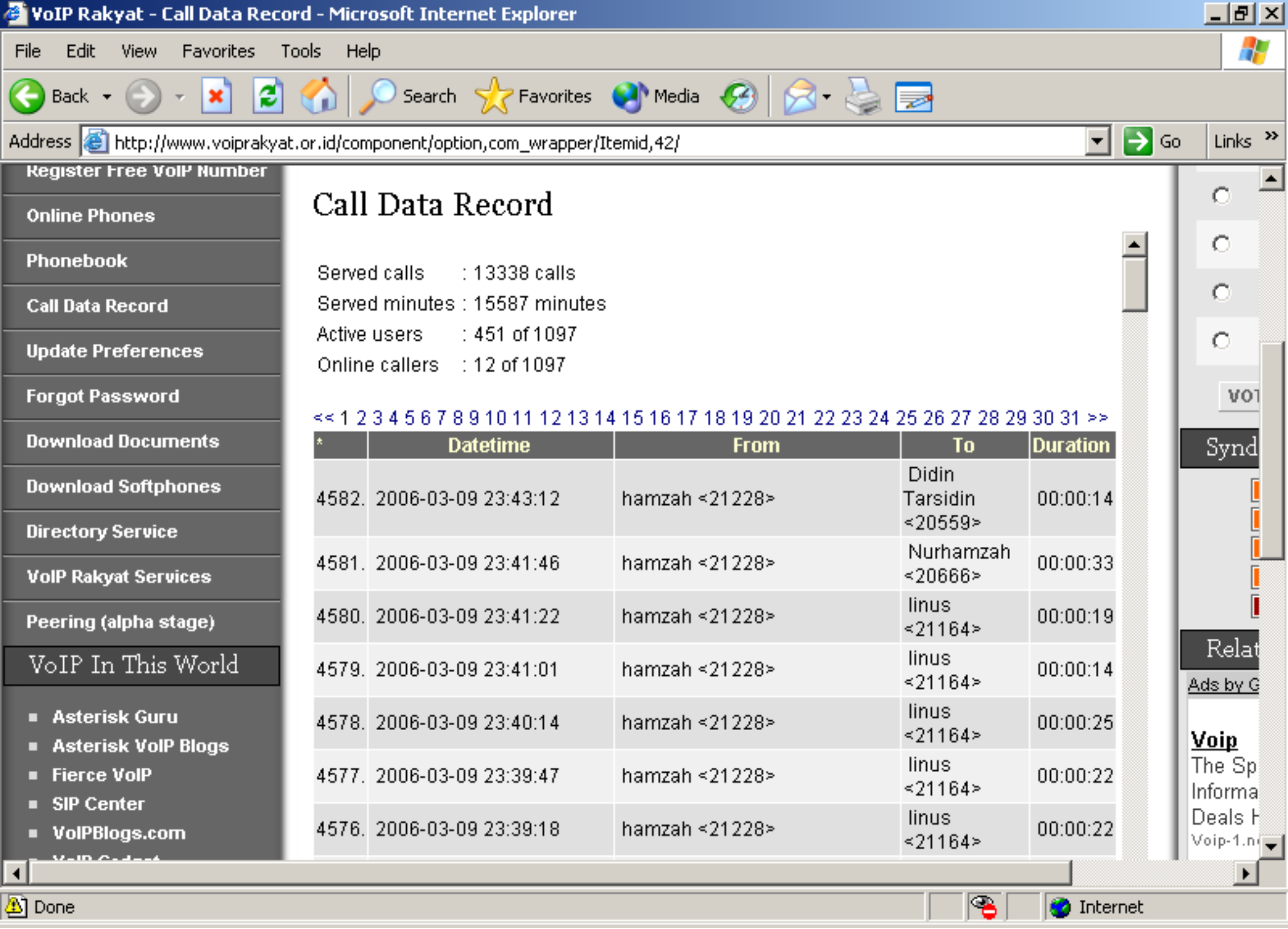
VoIP Rakyat - Call Data Record - Microsoft Internet Explorer
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VoIP Rakyat Services
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VoIP In This World
Asterisk Guru
Asterisk VoIP Blogs
Fierce VoIP
SIP Center
VoIPBlogs.com
Call Data Record
Served calls : 13338 calls
Served minutes : 15587 minutes
Active users : 451 of 1097
Online callers : 12 of 1097
<< 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 >>
* Datetime From To Duration
4582. 2006-03-09 23:43:12 hamzah <21228> Didin Tarsidin <20559> 00:00:14
4581. 2006-03-09 23:41:46 hamzah <21228> Nurhamzah <20666> 00:00:33
4580. 2006-03-09 23:41:22 hamzah <21228> linus <21164> 00:00:19
4579. 2006-03-09 23:41:01 hamzah <21228> linus <21164> 00:00:14
4578. 2006-03-09 23:40:14 hamzah <21228> linus <21164> 00:00:25
4577. 2006-03-09 23:39:47 hamzah <21228> linus <21164> 00:00:22
4576. 2006-03-09 23:39:18 hamzah <21228> linus <21164> 00:00:22
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Softphone

Web Link	Hits
Idefisk Idefisk merupakan softphone berbasis IAX2 yang handal dan ringan, sangat cocok untuk yang menggunakan PC atau laptop spesifikasi rendah. Tersedia dalam 3 platform yaitu untuk MS Windows, Linux dan Mac. Mendukung codec GSM, iLBC, Speex dan G711.	100
SJphone VoIP Rakyat Seri SJphone 289a yang telah dimodifikasi untuk VoIP Rakyat. Penggunaannya sangat mudah, tinggal download, install, jalankan lalu masukkan username dan password anda, tidak perlu konfigurasi. Gunakan ini untuk mencoba VoIP Rakyat pertama kali.	444
SJphone SJlabs menyediakan beberapa versi softphone SJphone untuk berbagai macam device seperti PC dan Pocket PC. Mendukung codec GSM, iLBC dan G711 serta dapat bekerja dengan 2 protokol VoIP yaitu SIP dan H323, Tersedia untuk OS Windows dan Linux.	165
X-Lite Dapatkan X-Lite untuk berkomunikasi gratis melalui VoIP Rakyat. X-Lite adalah salah satu softphone berbasis SIP ternama yang paling diminati karena penggunaannya yang cukup mudah dan stabil. Mendukung codec GSM, iLBC, Speex dan G711.	166

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Internet

Today's VoIP Rakyat

- ACER (Xeon Dual Processor)
- IDC (Hosting at Indonesia Internet Exchange)

VoIP Rakyat - Dunia dengan telepon gratis, telepon murah, telepon voip - Mozilla Firefox

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http://www.voiprakyat.or.id/

Go

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VoIP Rakyat

Free Communication for People

Home | VoIP Forum | VoIP Directory | Service Number | FAQ | ENUM | Tell The World | audioBlog | Web Phone | Download

Account ID

Password

Login

- Register (Free!)
- Forgot Password

VoIP Rakyat

www.bajay.com
everything you need for voip & IP-PBX

Memperkenalkan audioBlog dengan VoIP Rakyat

09/01/2007

Rekam suara anda, berbagi dengan seluruh dunia, tampilkan di website atau blog anda.

Untuk merekam suara anda, anda perlu dial 905 diikuti dengan nomor rekaman, contoh: 9051234.

Anda bisa juga dial 905 saja tanpa diikuti nomor rekaman, ...

Statistics

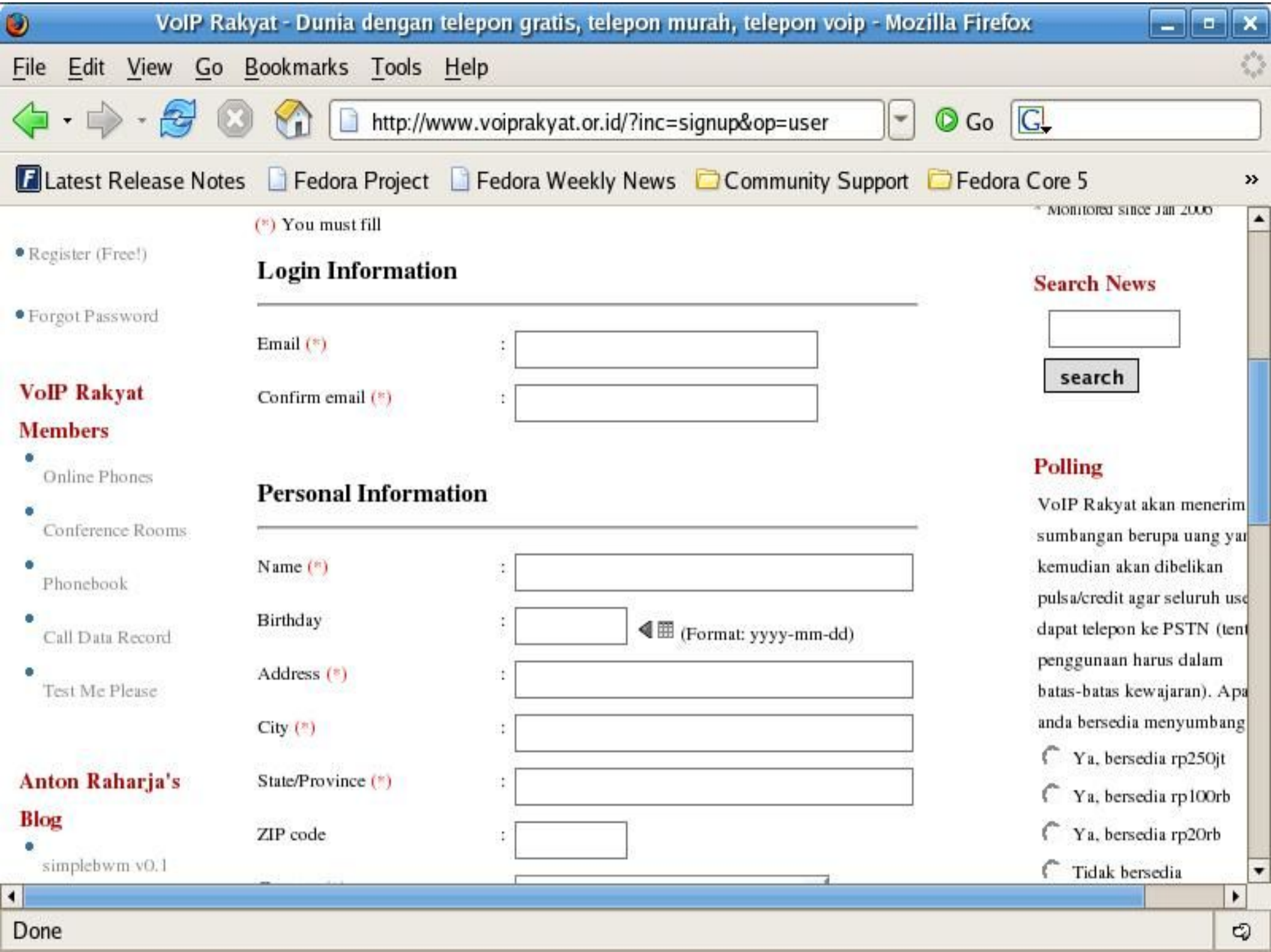
Served calls	:48344
Served minutes	:108465
Registered accounts	:16324
Active accounts	:4489
Online phones	:175

* Monitored since Jan 2006

Search News

search

Done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(*) You must fill
Register (Free!)
Forgot Password
Login Information
Email (*) :
Confirm email (*) :
VoIP Rakyat Members
Online Phones
Conference Rooms
Phonebook
Call Data Record
Test Me Please
Personal Information
Name (*) :
Birthday :
(Format: yyyy-mm-dd)
Address (*) :
City (*) :
State/Province (*) :
ZIP code :
Anton Raharja's Blog
simplebwm v0.1
Search News
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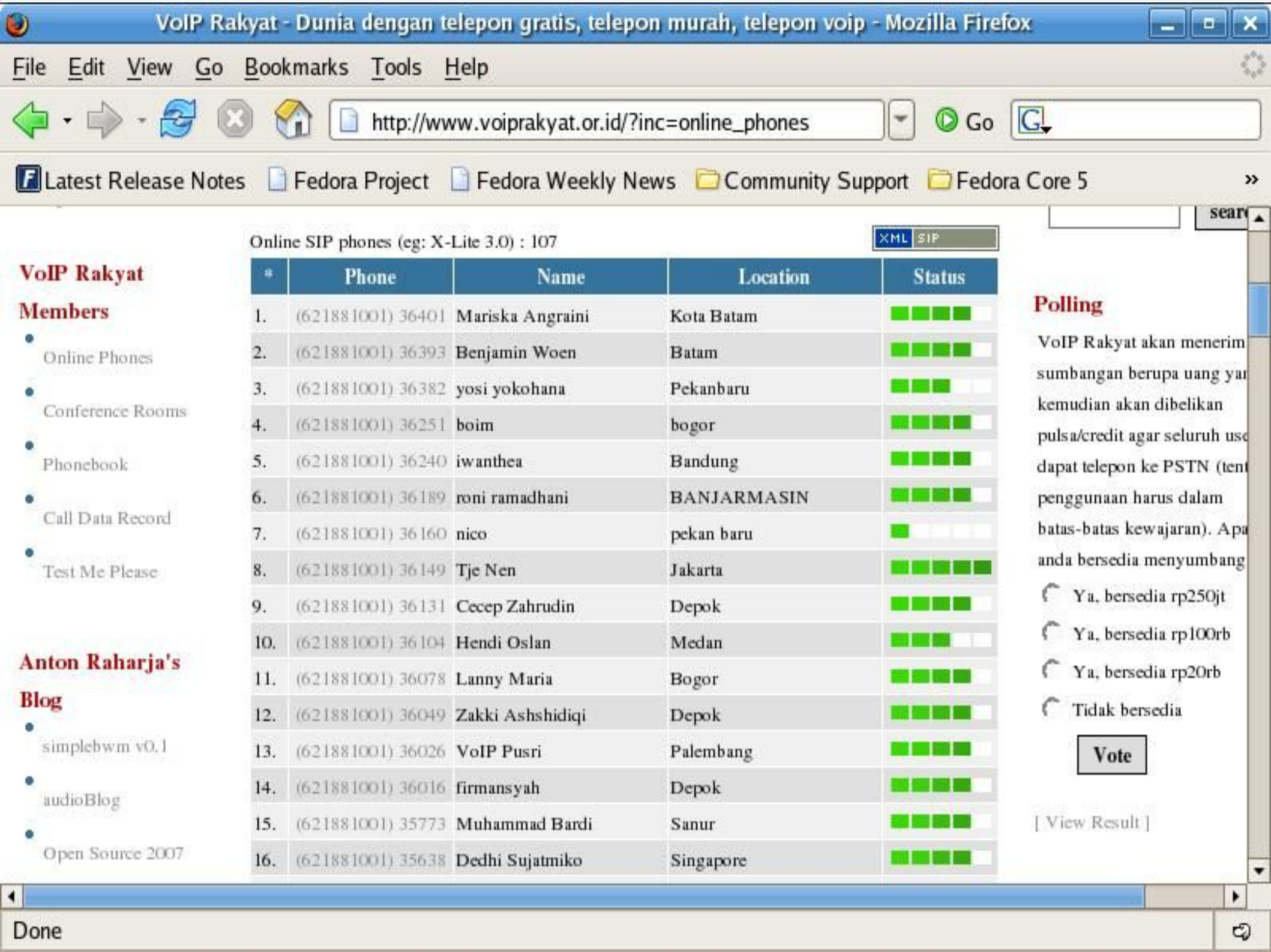
Polling
VoIP Rakyat akan menerim
sumbangan berupa uang ya
kemudian akan dibelikan
pulsa/credit agar seluruh us
dapat telepon ke PSTN (ten
penggunaan harus dalam
batas-batas kewajaran). Apa
anda bersedia menyumbang
Ya, bersedia rp250jt
Ya, bersedia rp100rb
Ya, bersedia rp20rb
Tidak bersedia
Done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Test Me Please
Anton Raharja's Blog
simplebwm v0.1
audioBlog
Open Source 2007
Online SIP phones (eg: X-Lite 3.0) : 107
XML SIP
* Phone Name Location Status
1. (621881001) 36401 Mariska Angraini Kota Batam
2. (621881001) 36393 Benjamin Woen Batam
3. (621881001) 36382 yosi yokohana Pekanbaru
4. (621881001) 36251 boim bogor
5. (621881001) 36240 iwanthea Bandung
6. (621881001) 36189 roni ramadhani BANJARMASIN
7. (621881001) 36160 nico pekan baru
8. (621881001) 36149 Tje Nen Jakarta
9. (621881001) 36131 Cecep Zahrudin Depok
10. (621881001) 36104 Hendi Oslan Medan
11. (621881001) 36078 Lanny Maria Bogor
12. (621881001) 36049 Zakki Ashshidiqi Depok
13. (621881001) 36026 VoIP Pusri Palembang
14. (621881001) 36016 firmansyah Depok
15. (621881001) 35773 Muhammad Bardi Sanur
16. (621881001) 35638 Dedhi Sujatmiko Singapore
Polling
VoIP Rakyat akan menerim
sumbangan berupa uang ya
kemudian akan dibelikan
pulsa/credit agar seluruh us
dapat telepon ke PSTN (ten
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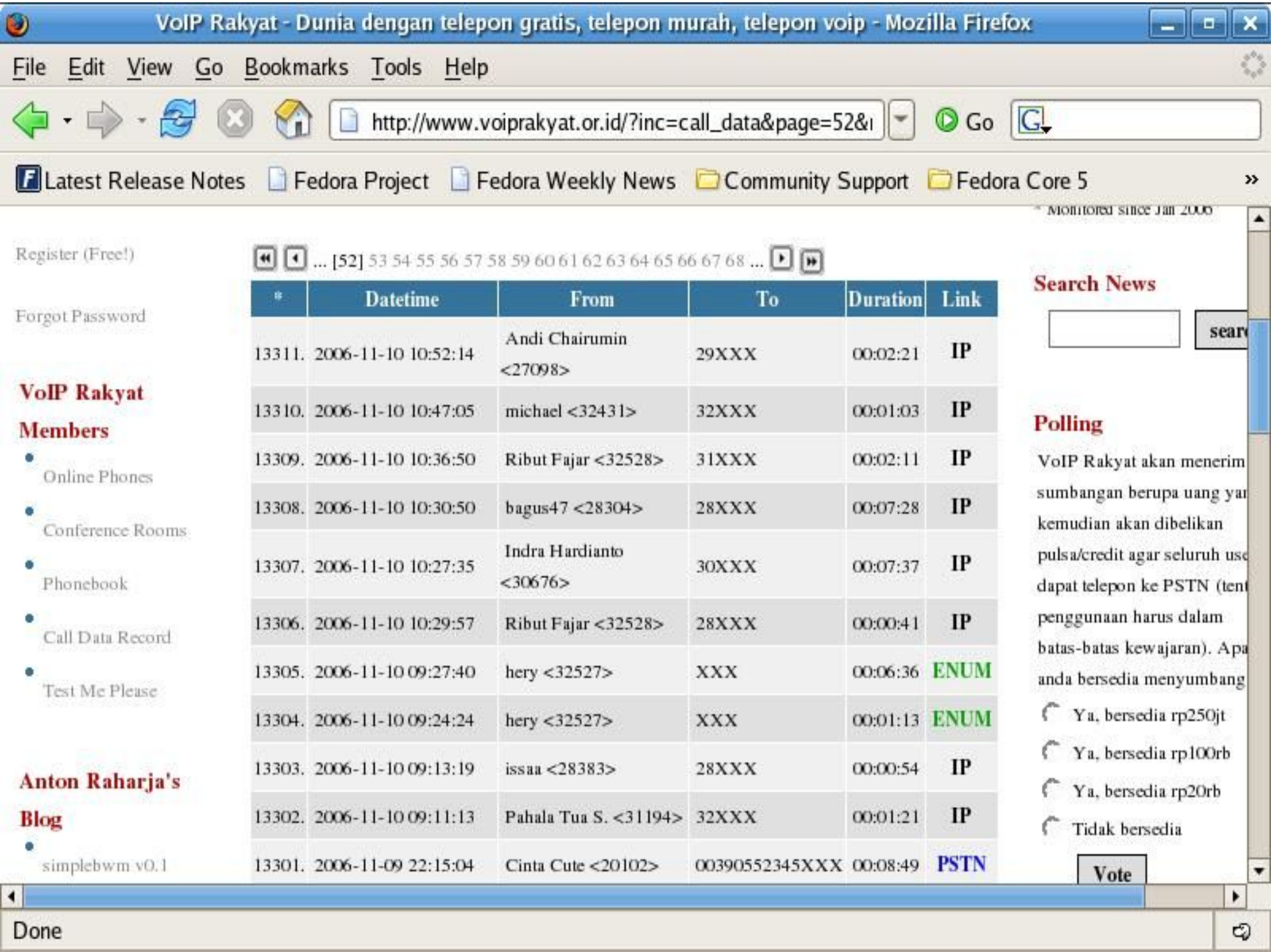
anda bersedia menyumbang
Ya, bersedia rp250jt
Ya, bersedia rp100rb
Ya, bersedia rp20rb
Tidak bersedia
Vote
[View Result]
Done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Conference Rooms
Phonebook
Call Data Record
Test Me Please
Anton Raharja's Blog
simplebwm v0.1
... [52] 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 ...
* | Datetime | From | To | Duration | Link
13311. | 2006-11-10 10:52:14 | Andi Chairumin <27098> | 29XXX | 00:02:21 | IP
13310. | 2006-11-10 10:47:05 | michael <32431> | 32XXX | 00:01:03 | IP
13309. | 2006-11-10 10:36:50 | Ribut Fajar <32528> | 31XXX | 00:02:11 | IP
13308. | 2006-11-10 10:30:50 | bagus47 <28304> | 28XXX | 00:07:28 | IP
13307. | 2006-11-10 10:27:35 | Indra Hardianto <30676> | 30XXX | 00:07:37 | IP
13306. | 2006-11-10 10:29:57 | Ribut Fajar <32528> | 28XXX | 00:00:41 | IP
13305. | 2006-11-10 09:27:40 | hery <32527> | XXX | 00:06:36 | ENUM
13304. | 2006-11-10 09:24:24 | hery <32527> | XXX | 00:01:13 | ENUM
13303. | 2006-11-10 09:13:19 | issaa <28383> | 28XXX | 00:00:54 | IP
13302. | 2006-11-10 09:11:13 | Pahala Tua S. <31194> | 32XXX | 00:01:21 | IP
13301. | 2006-11-09 22:15:04 | Cinta Cute <20102> | 00390552345XXX | 00:08:49 | PSTN
Monitored since Jan 2006
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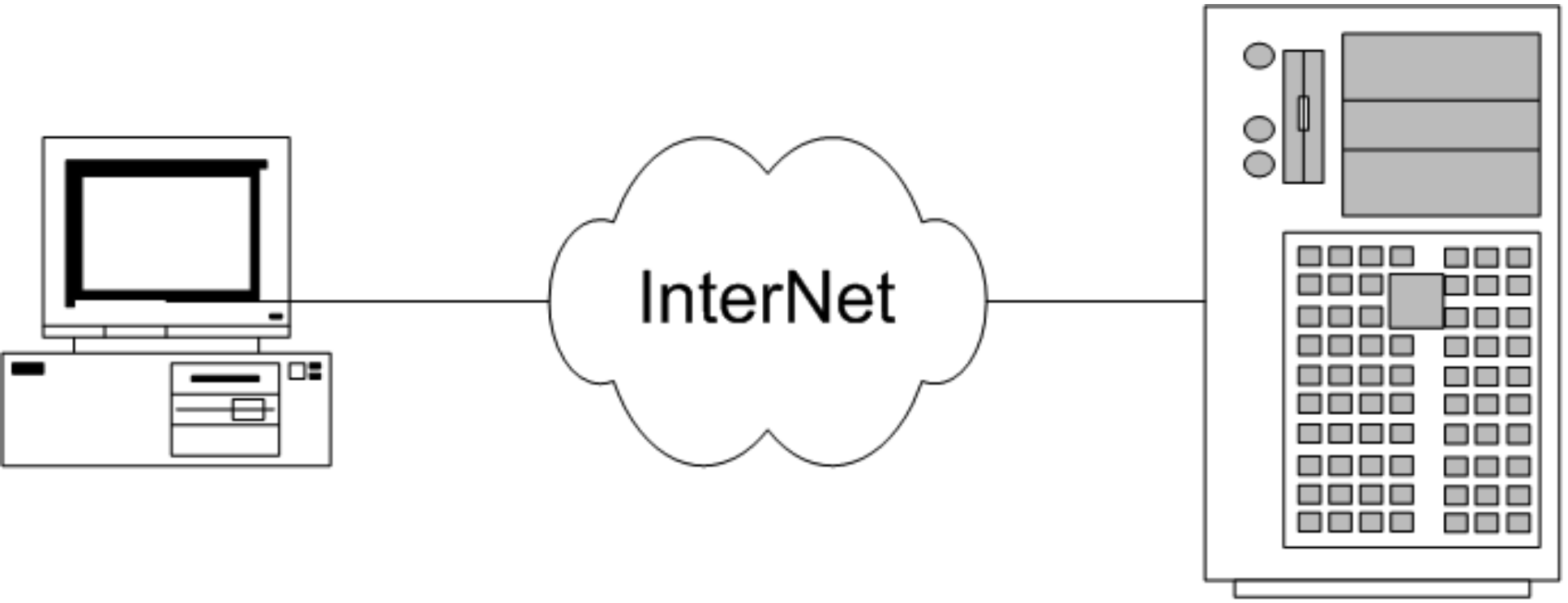
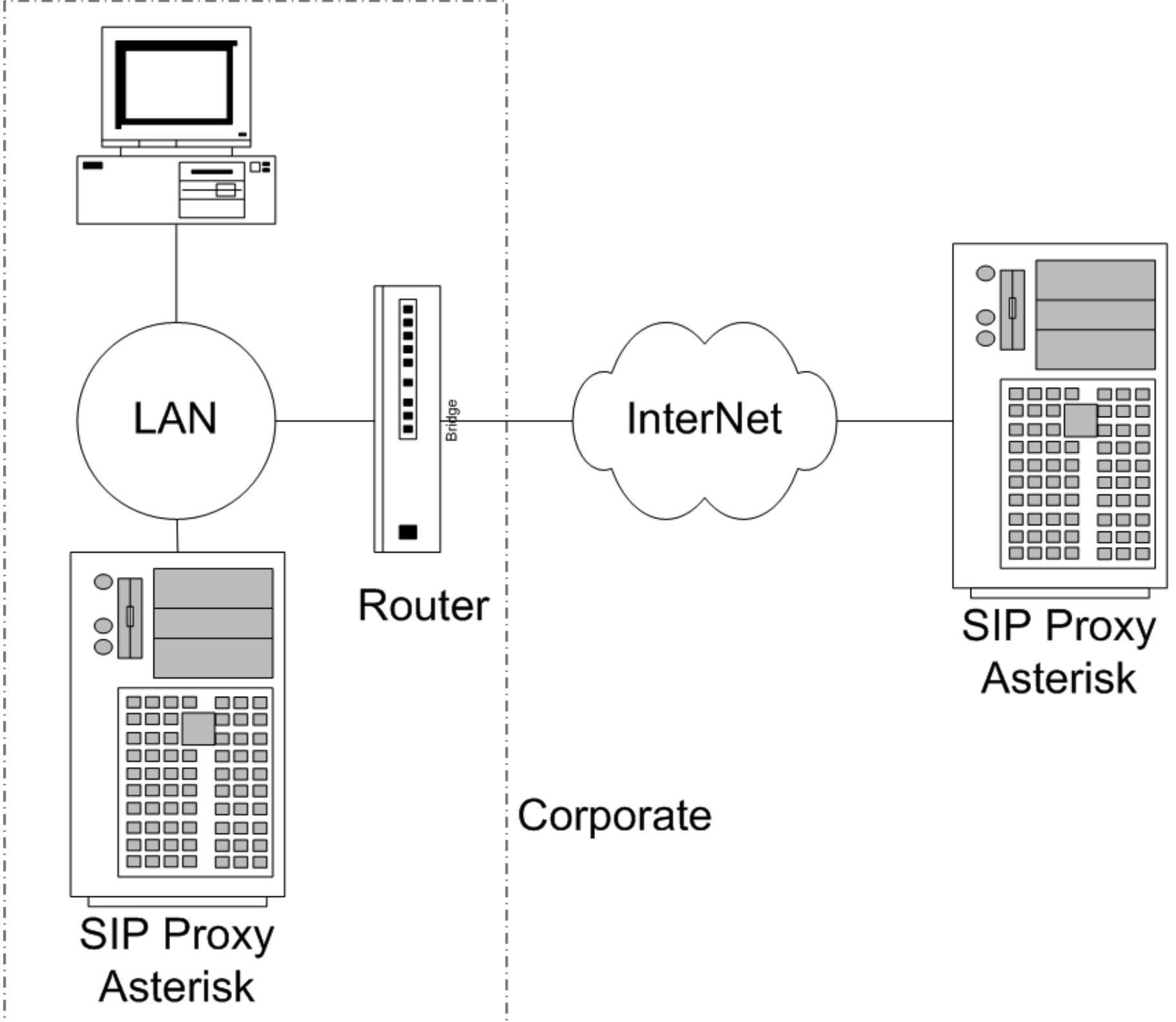
Polling
VoIP Rakyat akan menerim
sumbangan berupa uang ya
kemudian akan dibelikan
pulsa/credit agar seluruh us
dapat telepon ke PSTN (ten
penggunaan harus dalam
batas-batas kewajaran). Apa
anda bersedia menyumbang
Ya, bersedia rp250jt
Ya, bersedia rp100rb
Ya, bersedia rp20rb
Tidak bersedia
Vote
Done

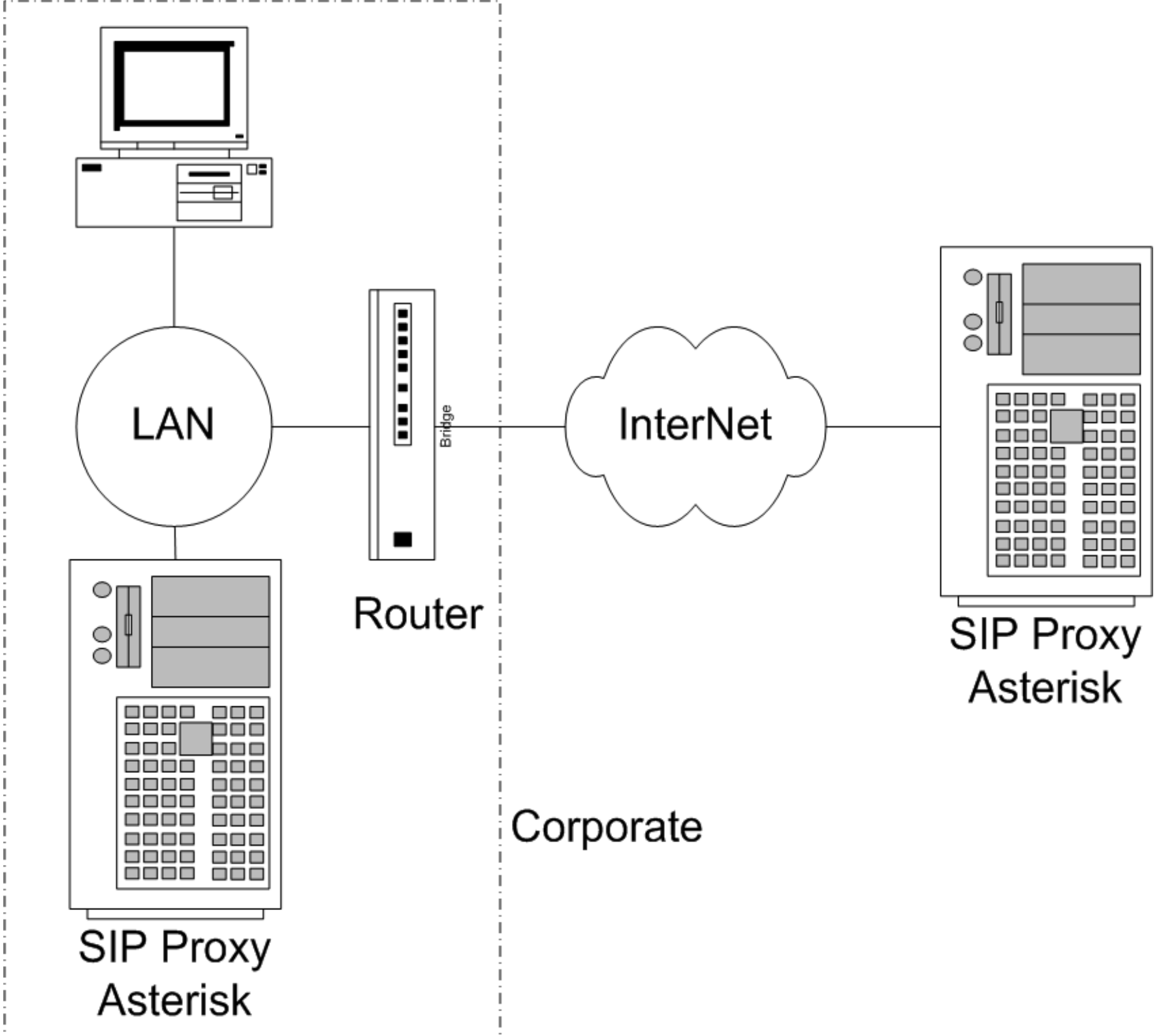
Some Typical Configurations



SIP Proxy

www.voiprakyat.or.id


LAN
Bridge
InterNet
Router
SIP Proxy
Asterisk
SIP Proxy
Asterisk
Corporate


LAN
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SIP Proxy
Asterisk
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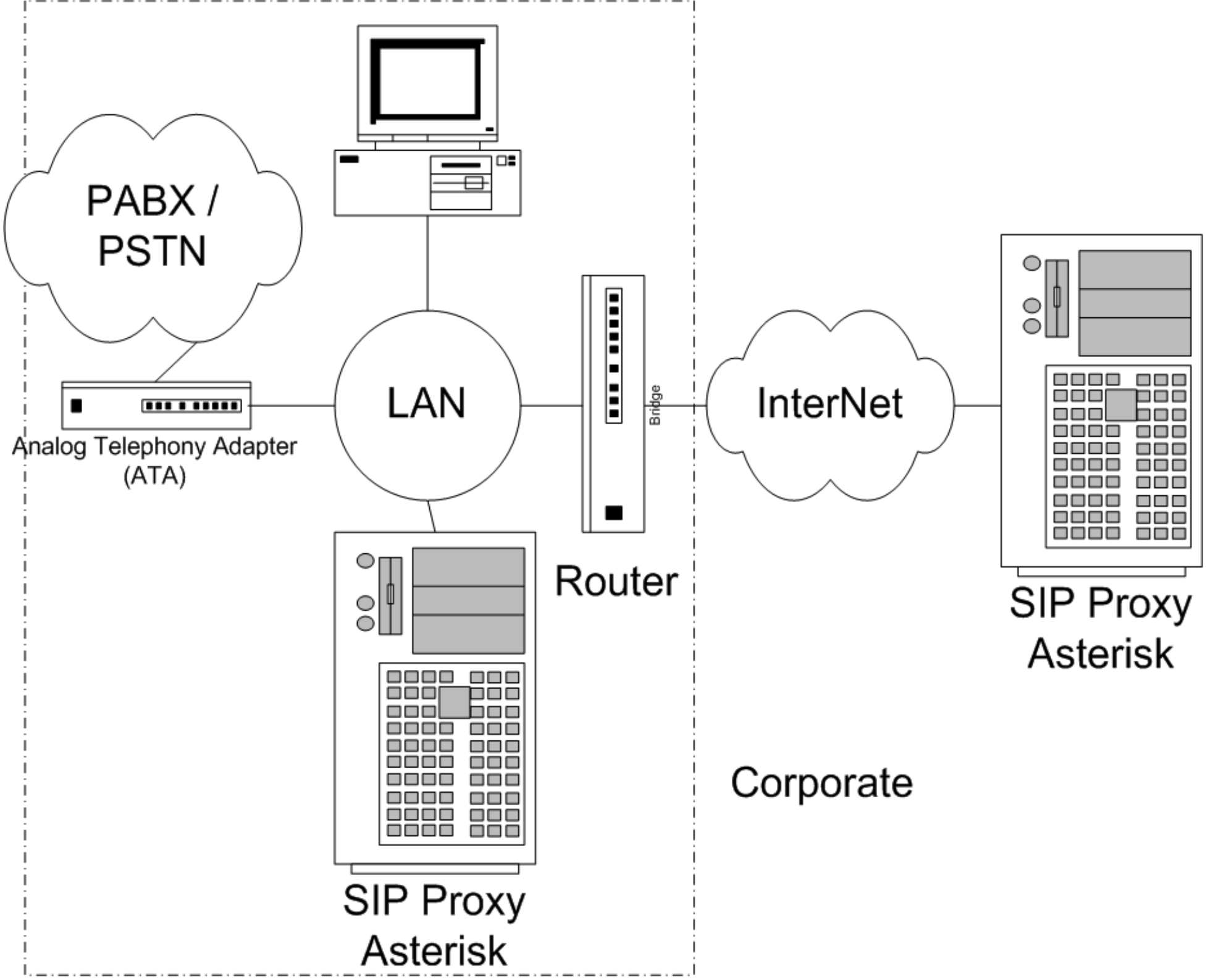
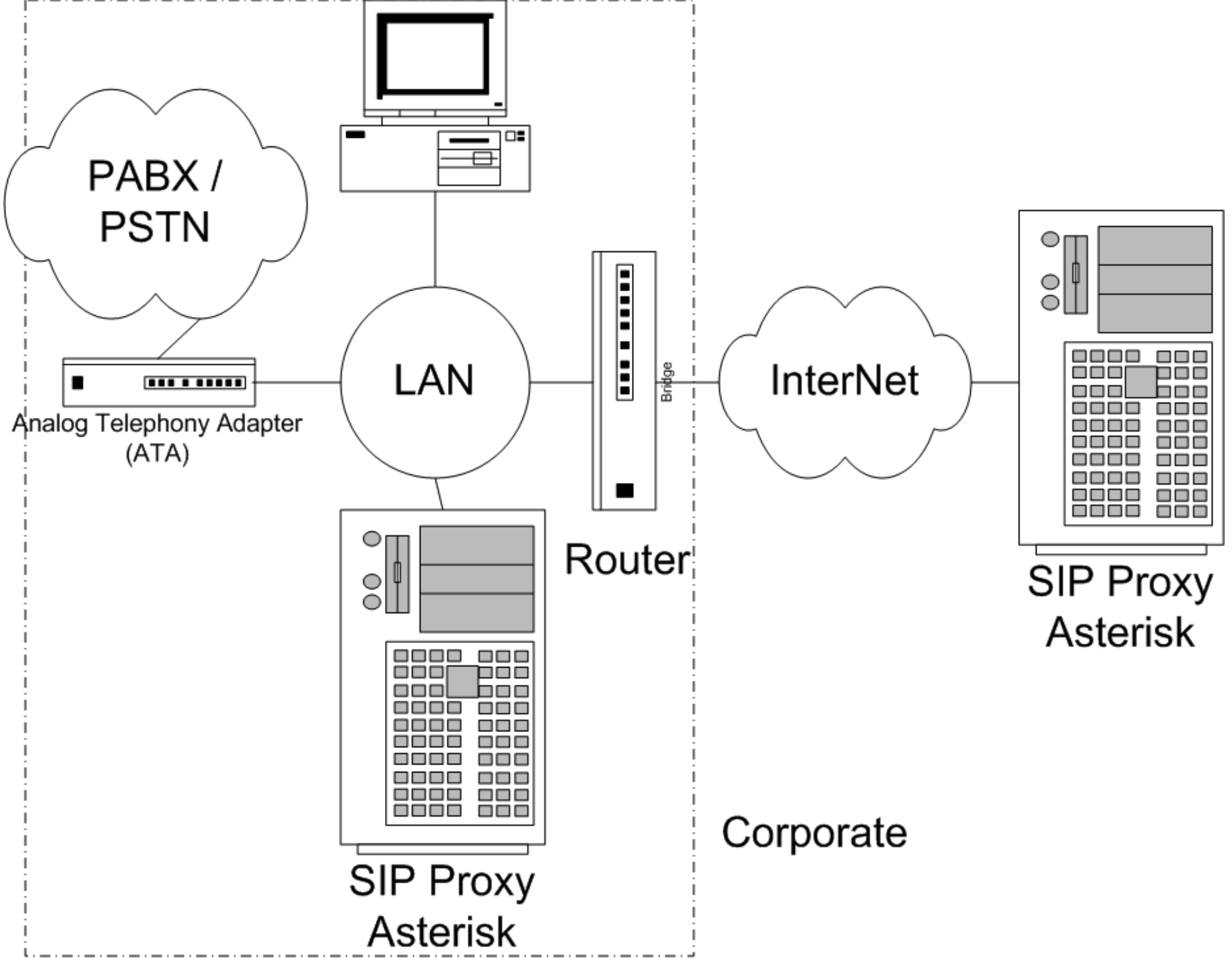
Asterisk
Corporate


PABX /
PSTN
Analog Telephony Adapter
(ATA)
LAN
Bridge
Router
InterNet
SIP Proxy
Asterisk
SIP Proxy
Asterisk
Corporate


PABX /
PSTN
Analog Telephony Adapter
(ATA)
LAN
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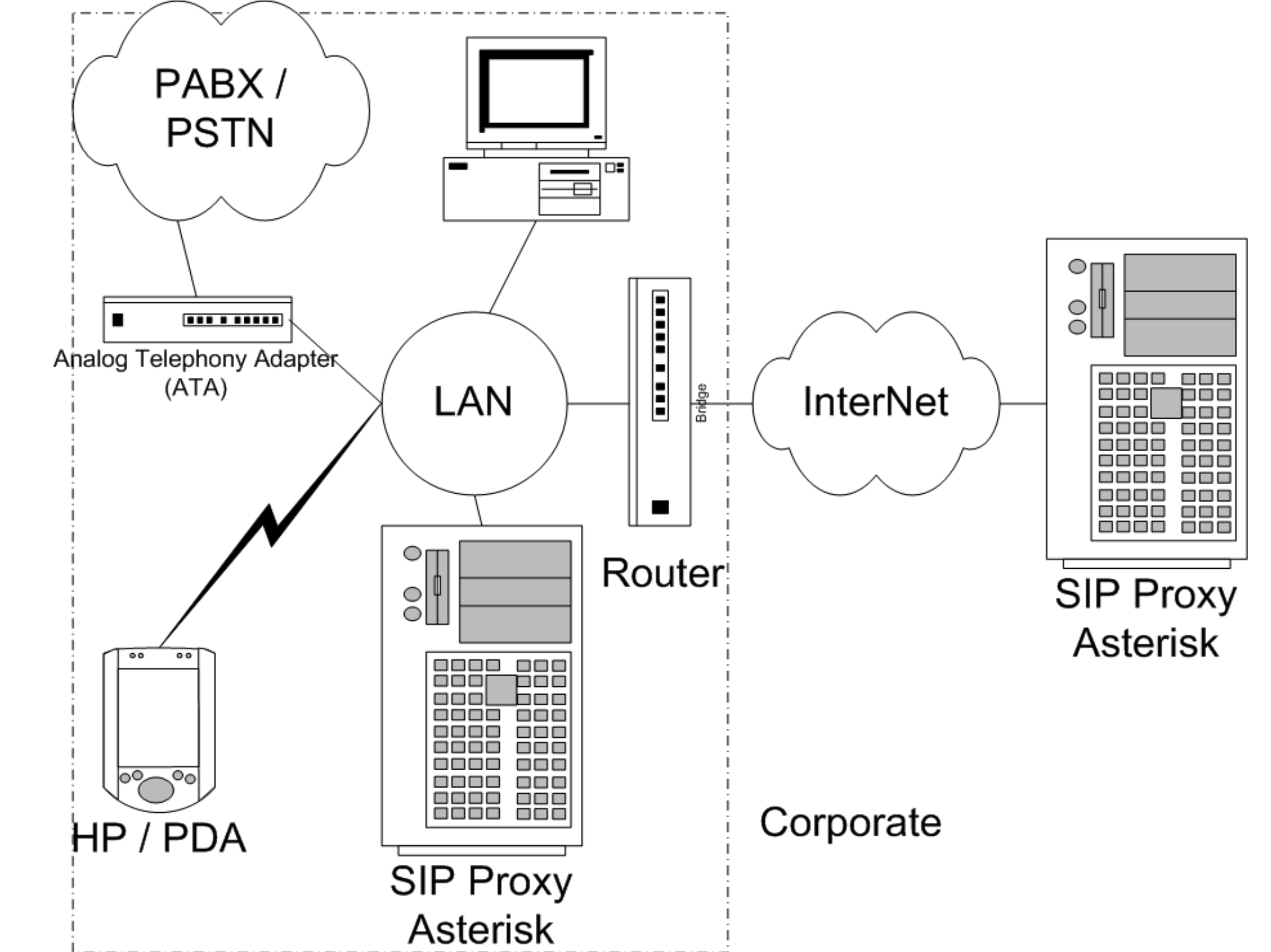
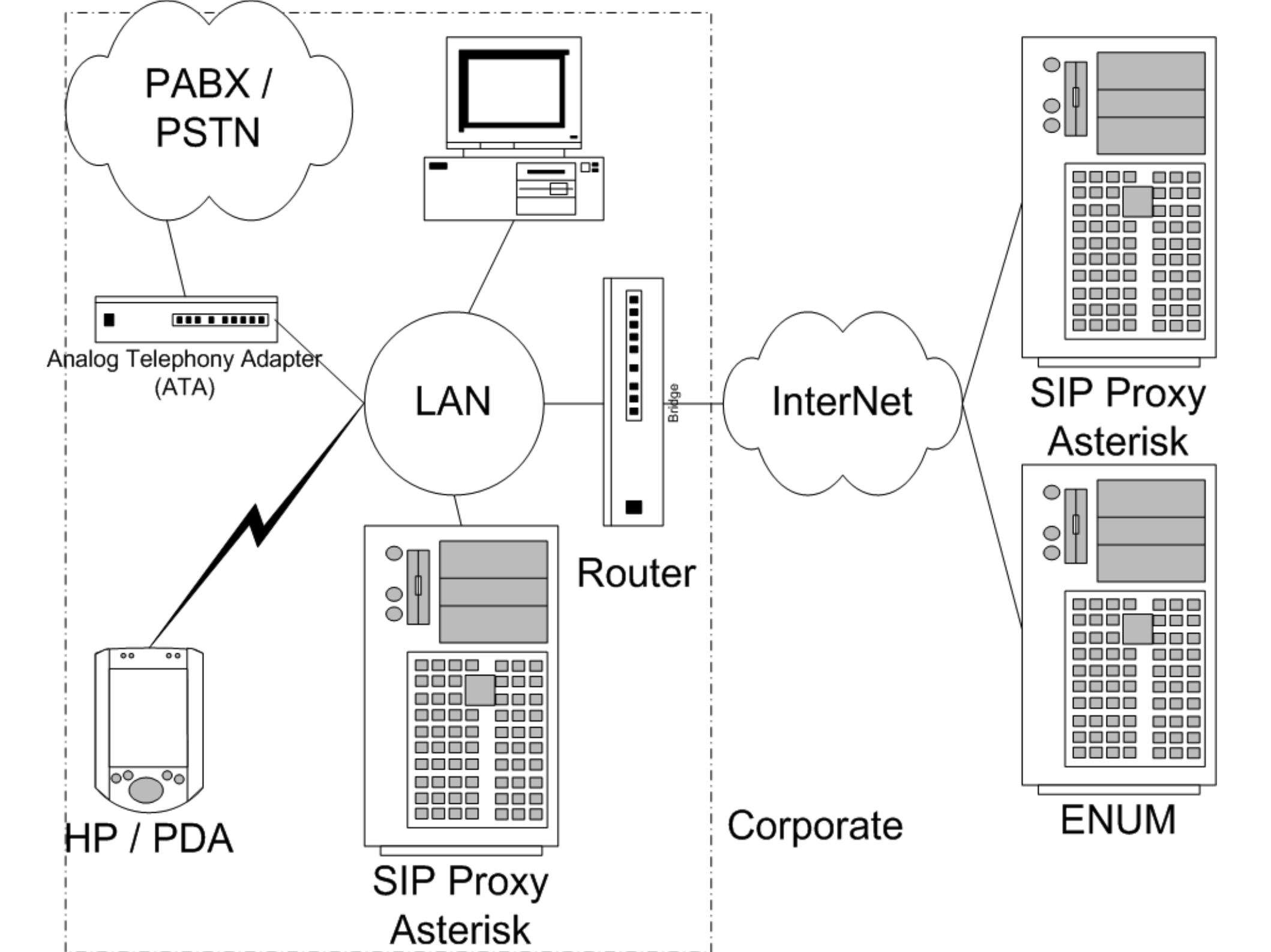
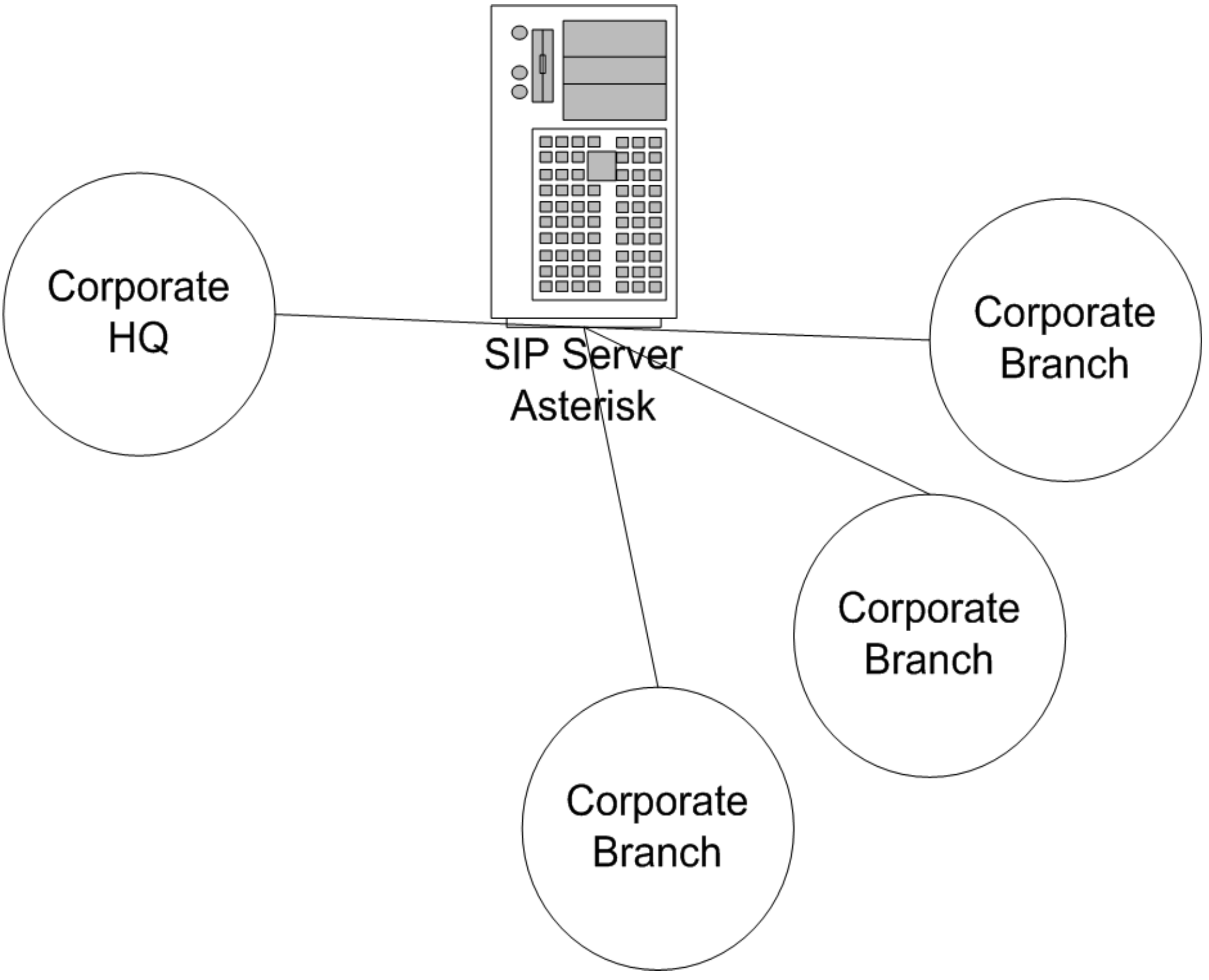
Router
InterNet
SIP Proxy
Asterisk
SIP Proxy
Asterisk
Corporate


PABX /
PSTN
Analog Telephony Adapter
(ATA)
LAN
Bridge
Router
InterNet
SIP Proxy
Asterisk
HP / PDA
SIP Proxy
Asterisk
Corporate


PABX /
PSTN
Analog Telephony Adapter
(ATA)
LAN
Bridge
Router
InterNet
SIP Proxy
Asterisk
ENUM
HP / PDA
SIP Proxy
Asterisk
Corporate

Typical Intra / Inter Corporate Configuration


Corporate
HQ
SIP Server
Asterisk
Corporate
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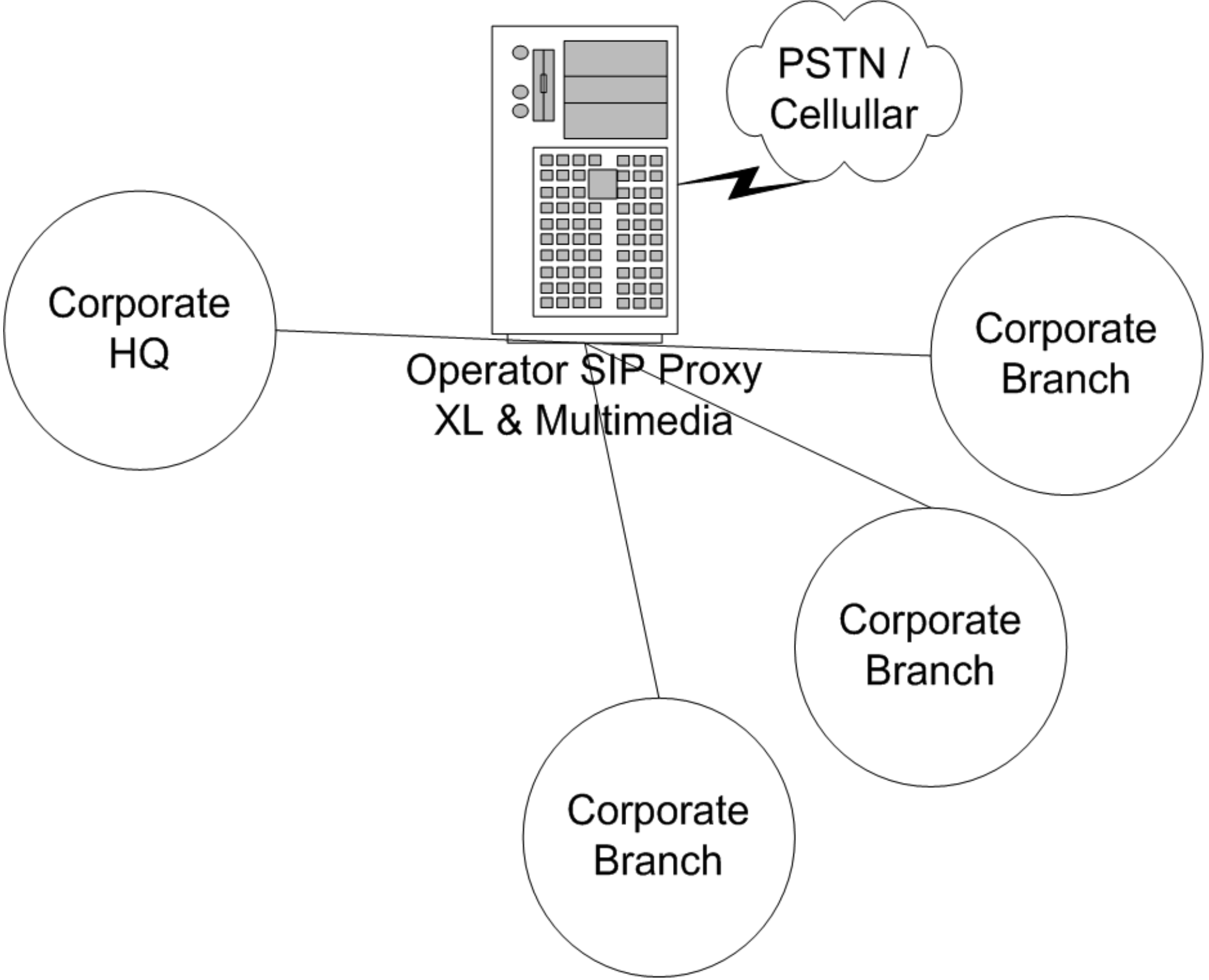
PSTN /
Cellullar
Corporate
HQ
Operator SIP Proxy
XL & Multimedia
Corporate
Branch
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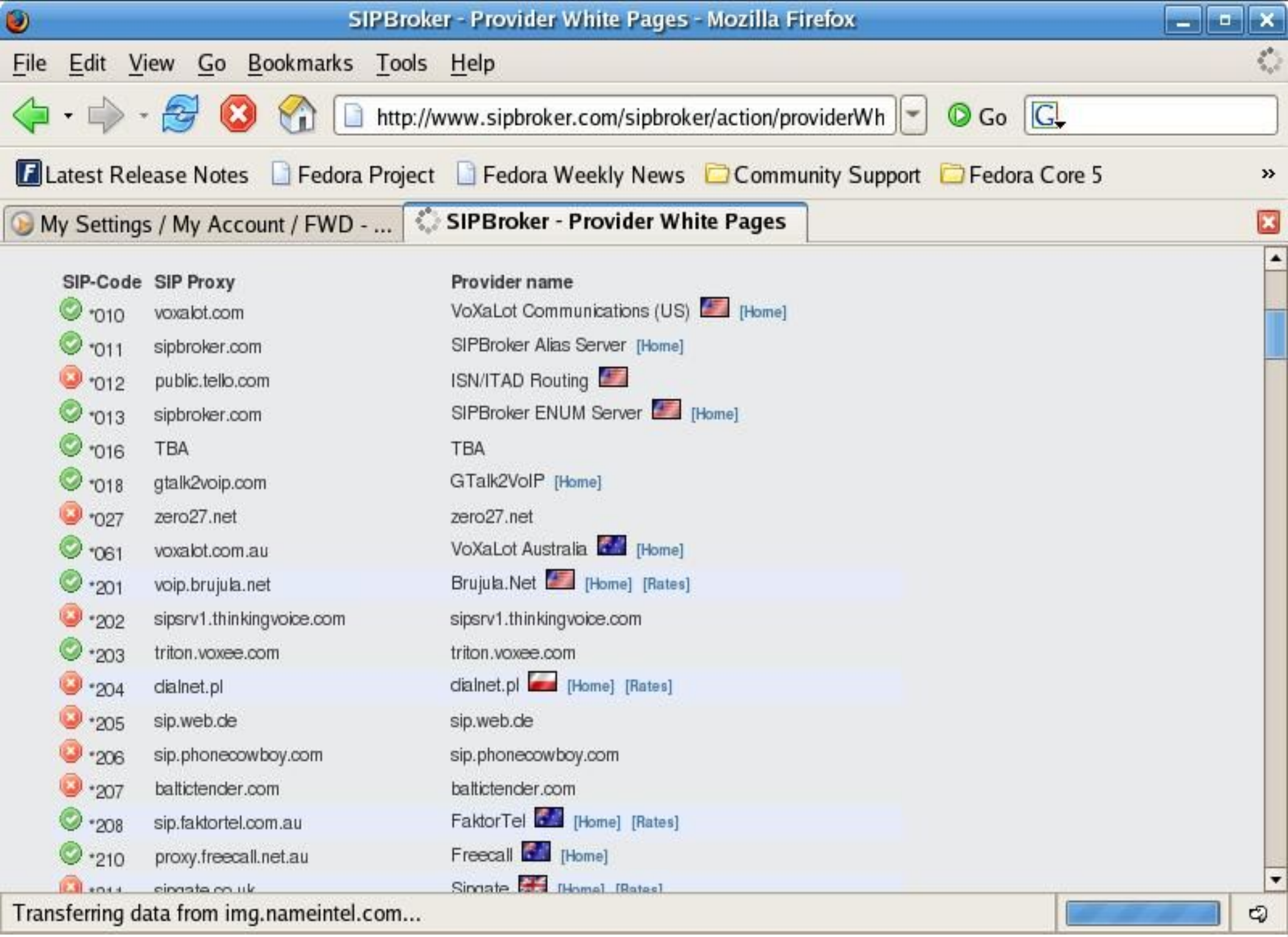
Free SIP Account & Interconnection

- http://www.sipbroker.com
- http://fwd.pulver.com


SIPBroker - Provider White Pages - Mozilla Firefox
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SIPBroker - Provider White Pages
SIP-Code SIP Proxy Provider name
*010 voxalot.com VoXaLot Communications (US) [Home]
*011 sipbroker.com SIPBroker Alias Server [Home]
*012 public.tello.com ISN/ITAD Routing
*013 sipbroker.com SIPBroker ENUM Server [Home]
*016 TBA TBA
*018 gtalk2voip.com GTalk2VoIP [Home]
*027 zero27.net zero27.net
*061 voxalot.com.au VoXaLot Australia [Home]
*201 voip.brujula.net Brujula.Net [Home] [Rates]
*202 sipsrv1.thinkingvoice.com sipsrv1.thinkingvoice.com
*203 triton.voxee.com triton.voxee.com
*204 dialnet.pl dialnet.pl [Home] [Rates]
*205 sip.web.de sip.web.de
*206 sip.phonecowboy.com sip.phonecowboy.com
*207 baltictender.com baltictender.com
*208 sip.faktortel.com.au FaktorTel [Home] [Rates]
*210 proxy.freecall.net.au Freecall [Home]
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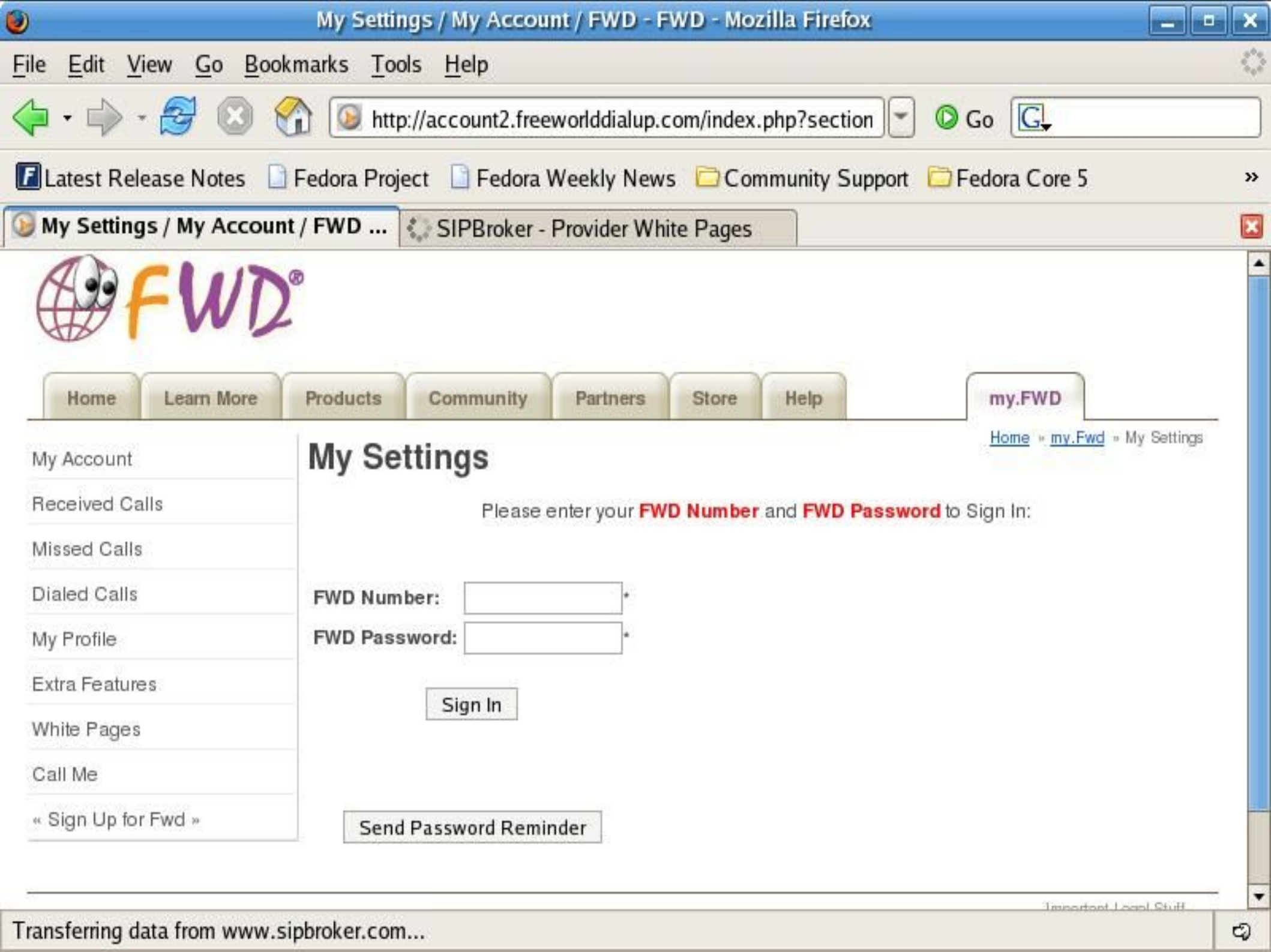
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Store
Help
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Home » my.Fwd » My Settings
My Account
Received Calls
Missed Calls
Dialed Calls
My Profile
Extra Features
White Pages
Call Me
« Sign Up for Fwd »
My Settings
Please enter your FWD Number and FWD Password to Sign In:
FWD Number:
FWD Password:
Sign In
Send Password Reminder
Transferring data from www.sipbroker.com...

Free Call Termination

- http://www.voipdiscount.com
- http://www.voipcheap.com

VoipDiscount - Mozilla Firefox

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http://www.voipdiscount.com/en/index.html

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Talk to anyone, anywhere for free! Download VoipDiscount now.

download NOW!

With VoipDiscount you can make **free*** calls over the internet to any of your online friends, as well as various popular destinations. **Download** it now for free and start calling immediately.

More Info

To enjoy free phone calls from your PC, just download and install this application (1700Kb)

Download now

System requirements

Windows

Free Calls!

call any land line in these destinations for FREE!

Free* calls (landlines only)

Argentina	Luxembourg
Australia	Malaysia
Austria	Monaco
Belgium	Netherlands
Canada	New Zealand
Chile	Norway
Cyprus	Panama
Czech Republic	Poland
Denmark	Portugal
Estonia	Puerto Rico (mobile)
Finland	Russian Federation
France	Singapore (+mobile)
Germany	Slovenia
Gibraltar	South Korea

NEW!

Make a **Free trial call** now!

Your phone number:

Destination phone number:

Call!

Enter both phone numbers in the international format, for instance: 00442012345678. Free calls are limited and only valid for landlines in destinations marked as **free**.

More instructions.

Free calls to your (online) friends

Call for FREE

Brand new P2P functionality

Extremely **low** rates for all other calls

Done

VoipCheap - FREE CALLS to regular phones over the internet! - Mozilla Firefox

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http://www.voipcheap.com/en/index.html

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GREAT NEWS: Credit will not expire anymore!

FREE CALLS* to regular phones over the internet. Just install the free VoipCheap application, plug a headset in your PC and start calling instantly! **Download now!**

free download

Call online friends for free. Call various popular destinations for free.

Easy to use, no spyware or adware. **Download now!**

System requirements

Windows

make a FREE TRIAL call!

Your phone number:

Destination phone number:

Call!

Enter both phone numbers in the international format, for instance: 00442012345678. Free calls are limited and only valid for landlines in destinations marked as free.

More instructions.

Free destinations (land lines):

Andorra	free*	Luxembourg	free*
Argentina	free*	Malaysia	free*
Australia	free*	Monaco	free*
Austria	free*	Netherlands	free*
Belgium	free*	New Zealand	free*
Canada	free*	Norway	free*
Chile	free*	Poland	free*
Czech Republic	free*	Portugal	free*
Denmark	free*	Puerto Rico (+mobile)	free*
Estonia	free*	Russian Federation	free*
France	free*	Singapore (+mobile)	free*
Germany	free*	South Korea	free*
Hong Kong (+mobile)	free*	Spain	free*
Hungary	free*	Sweden	free*
Iceland	free*	Switzerland	free*
Ireland	free*	United Kingdom	free*
Italy	free*	United States (+mobile)	free*
Liechtenstein	free*		

Check all other rates here

Do you know a cheaper telecom provider?

Sign up for our free newsletter:

Done

Pay Call Termination

- http://www.imaxindo.com

:: iMax - Global Phone Allowing to Call Whole World for FREE ! - Mozilla Firefox

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http://www.imaxindo.com/

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FREE !!! All you need is a broadband internet connection!

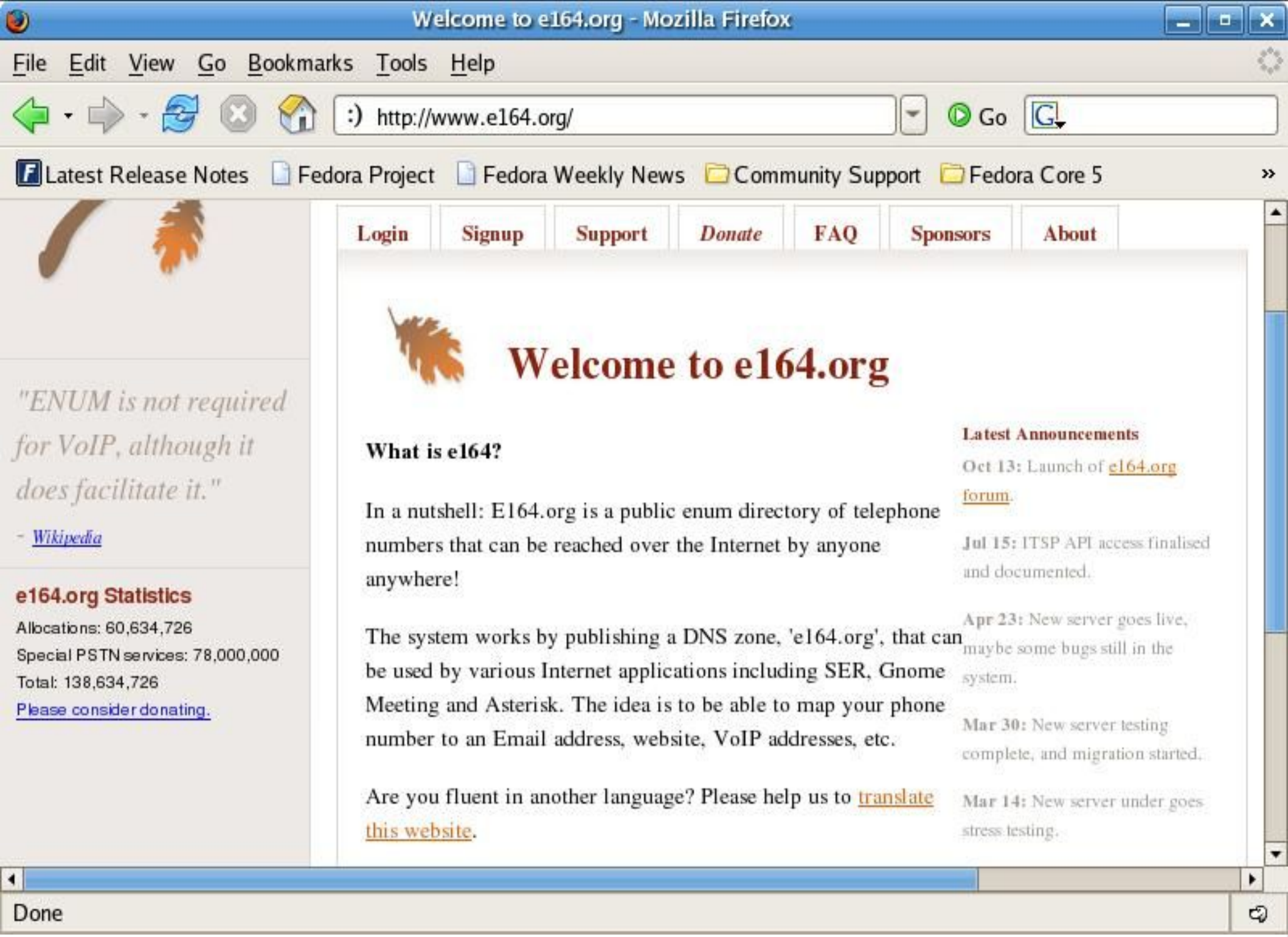
CUSTOMER TESTIMONIALS | Produk USB Phone dan Top Up Vouche | ORDER FREE SOFTPHONE NUMBER

ITP 1020A | ITP 747S | ITA 1010 | ITA 3000 | USB Phone | Softphone

Done

ENUM

- http://www.e164.org
- http://www.enum.voiprakyat.org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Login
Signup
Support
Donate
FAQ
Sponsors
About
Welcome to e164.org
"ENUM is not required for VoIP, although it does facilitate it."
- Wikipedia
e164.org Statistics
Allocations: 60,634,726
Special PSTN services: 78,000,000
Total: 138,634,726
Please consider donating.
What is e164?
In a nutshell: E164.org is a public enum directory of telephone numbers that can be reached over the Internet by anyone anywhere!
The system works by publishing a DNS zone, 'e164.org', that can be used by various Internet applications including SER, Gnome Meeting and Asterisk. The idea is to be able to map your phone number to an Email address, website, VoIP addresses, etc.
Are you fluent in another language? Please help us to translate this website.
Latest Announcements
Oct 13: Launch of e164.org forum.
Jul 15: ITSP API access finalised and documented.
Apr 23: New server goes live, maybe some bugs still in the system.
Mar 30: New server testing complete, and migration started.
Mar 14: New server under goes stress testing.
Done

Direktori ENUM Indonesia

Main Menu »

Home

Preferences

Phone number

Logout

Partners

Mungkinkah Tiap Orang Punya Satu Nomor Telepon Permanen?

12/12/2006

Pernahkan Anda membayangkan mempunyai nomor sendiri, misalnya, +627771781945, nomor tersebut milik Anda tidak tergantung pada operator mana pun dan dapat digunakan apakah Anda berlangganan ke GSM seluler, CDMA seluler, Internet menggunakan VoIP, maupun menggunakan PSTN Telkom.

Semua akan masuk ke pesawat telepon yang Anda pegang tidak peduli teknologi yang digunakan. ....

ENUM VoIP Rakyat versi 1.0

Statistic

Account	: 410
Phone number	: 201
ENUM record	: 272

Syndication

RSS 0.91 RSS 1.0 RSS 2.0 ATOM 0.3 OPML SHARE IT!

FREE IP Calling with IPKall - Mozilla Firefox

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http://www.ipkall.com/

Go

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ERROR: The requested URL could ... | FREE IP Calling with IPKall

Receive CALLS FREE via IP

Free Washington state phone number to your Internet phone.

Welcome to IPKall, the service that lets you receive FREE calls over the Internet from any phone, anywhere, any time!

This is truly a FREE service

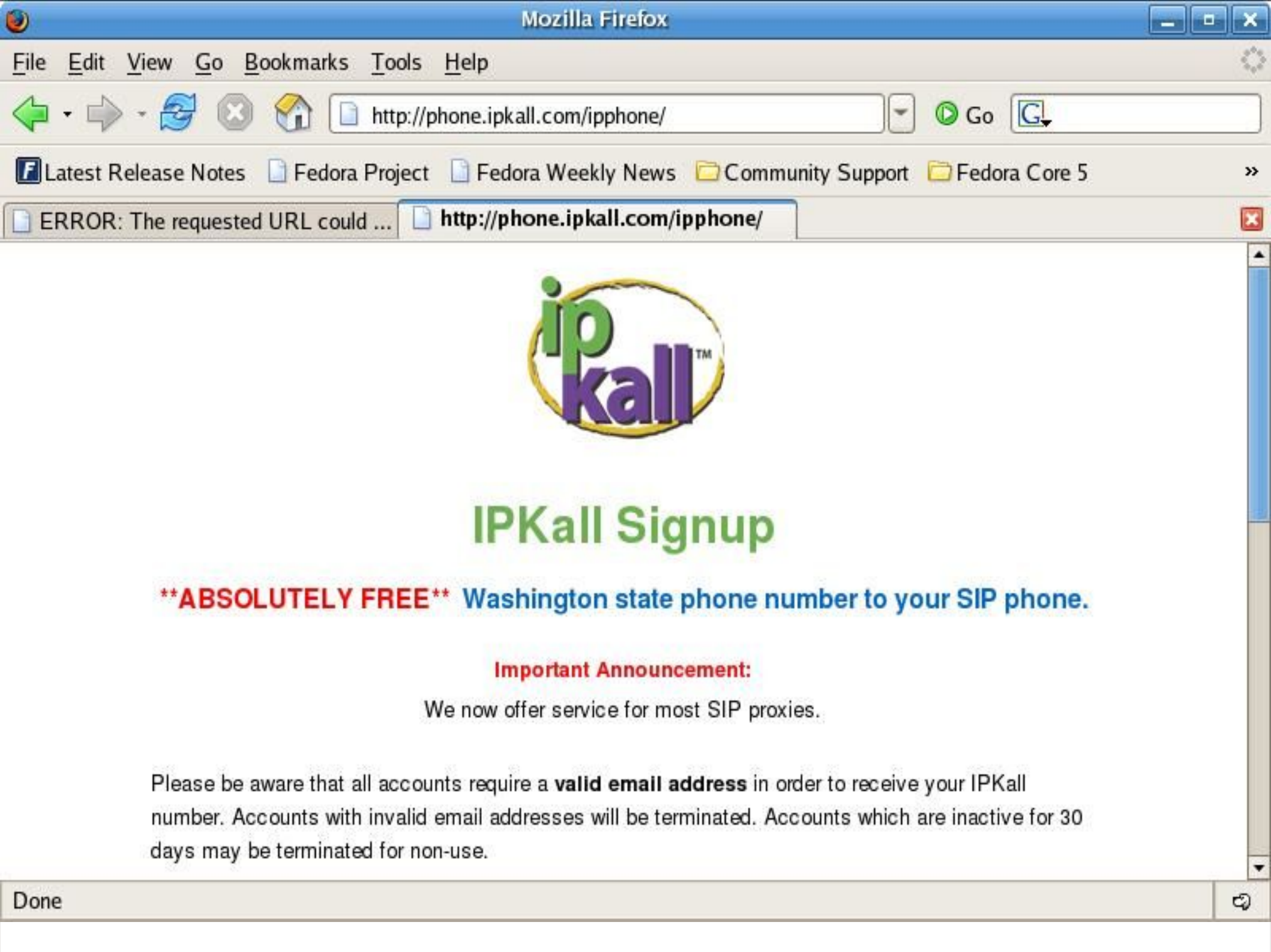
We don't sell equipment or service, there is no charge for registering or for connecting your calls to IP, and we do NOT provide any customer

New Area Codes Available!

IPKall now supports G729!

Sign-Up

Done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ERROR: The requested URL could ...
http://phone.ipkall.com/ipphone/
IPKall Signup
ABSOLUTELY FREE Washington state phone number to your SIP phone.
Important Announcement:
We now offer service for most SIP proxies.
Please be aware that all accounts require a valid email address in order to receive your IPKall number. Accounts with invalid email addresses will be terminated. Accounts which are inactive for 30 days may be terminated for non-use.
Done

SIP & VoIP

- Community based Telco
- Benefit for Corporates
- Minimal / Free charges
- Open Source!
- 4G :) ..