



VoIP Rakyat

Free Communication for
People



The Definition

What is VoIP Rakyat



VoIP Rakyat

- VoIP for Voice over Internet Protocol
- Rakyat means “Common People”
- VoIP Rakyat simply means “VoIP for Common People”
- Common Peoples are you, me and most of Indonesian who dreams of cheap telecommunication fee



Products

- PlayVoIP

- Opensource Asterisk manager for creating and managing free and open VoIP network
- URL: <http://playvoip.sourceforge.net>

- VoIP Rakyat Communicator

- Free and Open Source Software that enables voice, video and IM sessions based on XMPP, SIP and IAX2
- URL: <http://www.voiprakyat.or.id/communicator>



Services

- Free voice call and conference over IP
- Free video call and conference over IP
- Free IM session and conference
- Open VoIP Forum
- Free VoIP Howto and Manual
- Local and world VoIP News
- Free Audio Blog
- Free ENUM Service
- Conducts continuous training and workshop on VoIP



Historical Events

When was VoIP Rakyat network established



Founded

- VoIP Rakyat network founded sometime in year 2003, following the success of VoIP Merdeka (The Maverick VoIP network)
- Being the first nation-wide project on VoIP, VoIP Merdeka was so success. But there were problems following, due to the nature of protocol H323 used by them, there were no possibilities for users behind NAT to join the network easily
- On the other hand VoIP Rakyat used SIP. At that time, SER+rtpproxy does magic by allowing users behind NAT to join the network easily. No need for multi-level gatekeepers installed



Reborn

- People start to look and used VoIP Rakyat as soon as its established
- But the success was no match to VoIP Merdeka. By the time VoIP Rakyat network established the VoIP euphoria were still there but slowly diminished. People could not really used VoIP due to the lack of good internet provider
- VoIP Rakyat hibernated in early 2004.
- VoIP Rakyat reborn in late 2005 with new development team, new features and new supporters. This time VoIP Rakyat relies on Asterisk



Current

- In late 2006 VoIP Rakyat managed to served *100,000* minutes VoIP calls with registered users around *15,000* and active users around *4,000*
 - *100,000* minutes on local calls equal to about *Rp. 10,000,000,-* non-VoIP telecommunication fee
 - *100,000* minutes on interlocal calls equal to at least *Rp. 85,000,000,-* non-VoIP telecommunication fee
- Peers with some universities, ISPs and other companies



The Location

Where is the network located, and
what is the coverage area



Server Location

- VoIP Rakyat server located at Cyber Building 7th floor, Kuningan, Jakarta, managed by IDC Indonesia



Coverage Area

- VoIP Rakyat network targeted on users connected to IIX and OpenIX



Behind the Scene

People who started VoIP Rakyat
network and its supporters



Team

- Founder

- Anton Raharja (anton@voiprakyat.or.id)

- Development Team

- Abdul Hanan (hanan@ictcentre.net)

- Moses Kurniawan (moses@ictcentre.net)

- Facilitators:

- ICT Centre Jakarta

- Bona Simanjuntak (bona@ictcentre.net)

- Sindu Irawan (sindu@wan-dki.net)



Advisors

- I Made Wiryana
- Onno W. Purbo
- Rene L. Pattiradjawane
- Hinca IP Pandjaitan



Supported By

- Acer Indonesia
- ICT Centre Jakarta
- IDC Indonesia
- Indika IDVPS



Background

Reasons, goals and roadmaps



Backgrounds

- VoIP is a new technology for most Indonesian. We think we can help to make it obsolete by promoting the use of VoIP for home and/or office daily life
- Internet in Indonesia are so depending on foreign services. We think we can help by creating another local content, as fun as online game as important as updated local news
- Telecommunication fee is expensive due to expensive investments (among other thing). We think we can help by building an alternative using relatively cheaper tools



Why Asterisk ? (i)

- From several choices available we choose to power our VoIP network using Asterisk
- These are why:
 1. create a hosted conference call

```
exten => _921X.,1,Ringing
exten => _921X.,2,Wait,2
exten => _921X.,3,Playback(conference-call)
exten => _921X.,4,Wait,1
exten => _921X.,5,Playback(this-call-may-be-monitored-or-recorded)
exten => _921X.,6,Wait,1
exten => _921X.,7,MeetMe(${EXTEN:3}|CiMxviTs)
exten => _921X.,8,Hangup
```



Why Asterisk ? (ii)

2. connects with many other VoIP network

```
exten => _*X.,1,Ringing  
exten => _*X.,2,Wait,2  
exten => _*X.,3,Dial(SIP/sipbroker/${EXTEN})  
exten => _*X.,4,Hangup
```

3. handle outbound calls

```
[macro-pstnexten]  
exten => s,1,Agi,playvoip-pstnexten.php  
exten => s,2,Hangup
```

```
; handle outbound calls  
exten => _0100X.,1,Ringing  
exten => _0100X.,2,Wait,2  
exten => _0100X.,3,Macro(pstnexten);  
exten => _0100X.,4,Hangup
```



Why Asterisk ? (iii)

- Asterisk is simple
 - Easy to do anything when it comes to VoIP
 - Easy to maintain
 - Easy to deploy and re-deploy



Goals

- Internet infrastructure getting better due to the fact that it will be used by local users for making millions calls to another local users using VoIP
- VoIP in Indonesia is a good and healthy business
- Another production stage Free and Open Source Software developed in Indonesia



Focus on 2007

- VoIP Rakyat targeted to double-up served minutes on VoIP calls
- The increasing number of universities, ISPs and other companies direct peering with VoIP Rakyat network
- Release candidate or stable release for all open source software maintained by VoIP Rakyat

FOSS on VoIP

Free and Open Source Software
powered up VoIP network



VoIP Rakyat (i)

■ Hardware

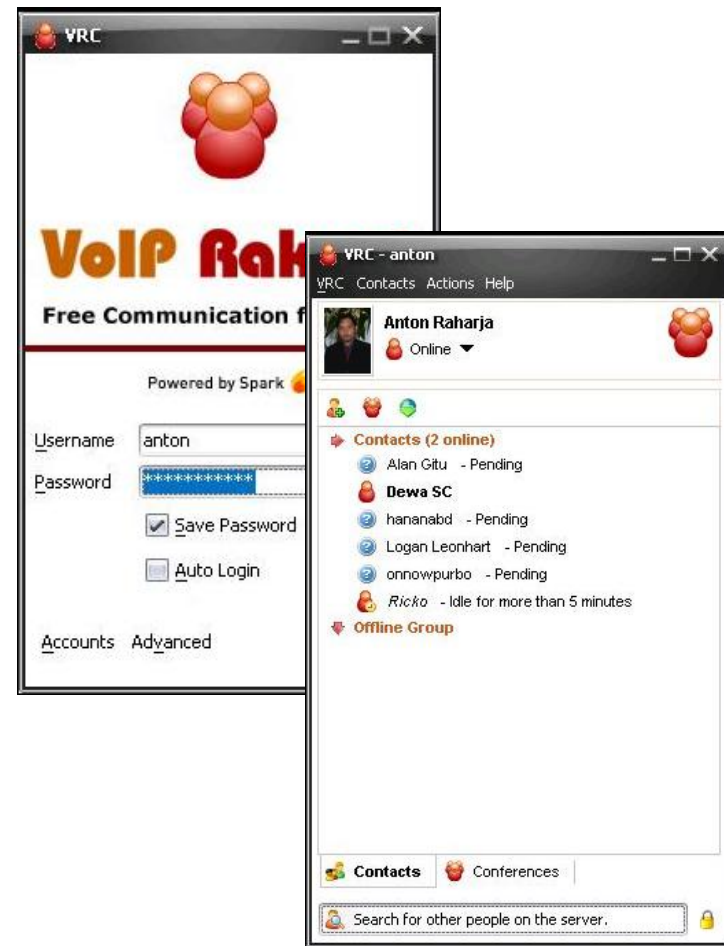
- Acer Altos G530
 - Intel Xeon 3 GHz
 - 4 GB RAM

■ Server Software

- Asterisk PBX (v1.2.14)
- Wildfire XMPP Server (v3.2.0 RC1)
- PlayVoIP Asterisk Manager (v0.2)
- LAMP (SuSE 9.3 packages)

VoIP Rakyat (ii)

- Client Software
 - VRC v0.3 (fork of Pandion v2.5)
 - VRC v0.4 (currently fork of Spark trunk)
 - iaxLite, Idefisk, SJphone, X-Lite and other SIP and/or IAX2 based softphones





VoIP Rakyat (iii)

■ Network

- Direct connect with 100 Mbps IIX and OpenIX switches from IDC Indonesia
- International bandwidth 128 Kbps provided by TheNet ISP



Making Your Own

- Minimum requirements

- Linux
- Asterisk
- X-Lite

- Guides

- Asterisk PBX Manual in Bahasa available from <http://www.voiprakyat.or.id>
- All about VoIP and Asterisk available from website <http://www.voip-info.org>
- Helps, guides, questions and answers available from Asterisk's Forums at <http://forums.digium.com>



We Need Support

Support VoIP Rakyat



If you are a user

- Register your self on VoIP Rakyat website
- Please download, install and try our messenger software **VoIP Rakyat Communicator** (VoIP and Video call feature are on the way)
- Please use softphones you familiar with (X-Lite or maybe Idefisk) and make VoIP calls
- Recommend us to your friends
- We need feedbacks as much as possible



If you are part of a company

- Influence your boss to use VoIP and eventually direct peering your VoIP server with us ;)



If you are part of the government

- We ask nothing but a chance to make this country better
- Please help



Visit Us

Links and contacts



Visit VoIP Rakyat

■ Website

- <http://www.voiprakyat.or.id>
- <http://www.enum.voiprakyat.or.id>

■ Forum

- <http://www.voiprakyat.or.id/forum>

■ Blog

- <http://www.voiprakyat.or.id/blog>



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Thank You

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