The By* Family of Libre Services

A non-proprietary model for delivery of Internet services

http://www.neda.com/PLPC/110013

Mohsen BANAN—http://mohsen.banan.1.byname.net/ Free Protocols Foundation—http://www.freeprotocols.org/ Neda Communications, Inc.—http://www.neda.com/

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Causes for Concern

- Networks are societal resources and their usage model must not be left to free markets and business.
- The mobile Internet is today controlled by large corporations, and critical civil liberties are being compromised.
- Current Copyright and Patent laws are in conflict with nature and are harming humanity.
- As first generation engineers we have a responsibility to safeguard the societal welfare. The goal of this project is to:

Liberate Internet Services

Internet Application Services Today: Problems and Concerns

- The wrong model: proprietary, owned and controlled
 - Ownership oriented to the Service Provider
 - Non-transparent software
 - User information owned and controlled by the proprietary
 Service Provider
- Structurally incoherent
 - Ad hoc: no overarching engineering design
 - Driven by short-term business expedience and profit
 - Functionally uncoordinated

The Many Dimensions of By* Libre Services

- → Libre Services model: philosophy, morality, legality
- Libre Services Collaborative Development Framework

- By* Libre Services: Vision
- By* Libre Services: Features and Capabilities
- By* Libre Services: Engineering Development and Deployment
- By* Libre Services: Open Business Plan
- By* Libre Services Spearhead: Libre Texting / WhiteBerry
- By* Libre Services: Participation

In English "Free" is ambiguous: We need the word "Libre"

• Free can mean Libre: free as in *freedom of action*

• Free can mean Gratis: free as in *zero monetary* cost

When we say "free" we will always mean Libre: freedom of action

Nature at work:

Non-material constructs flourish when free from ownership

Beyond Free Software

• We have won the Free Software battle

Proprietary Software Already Lost

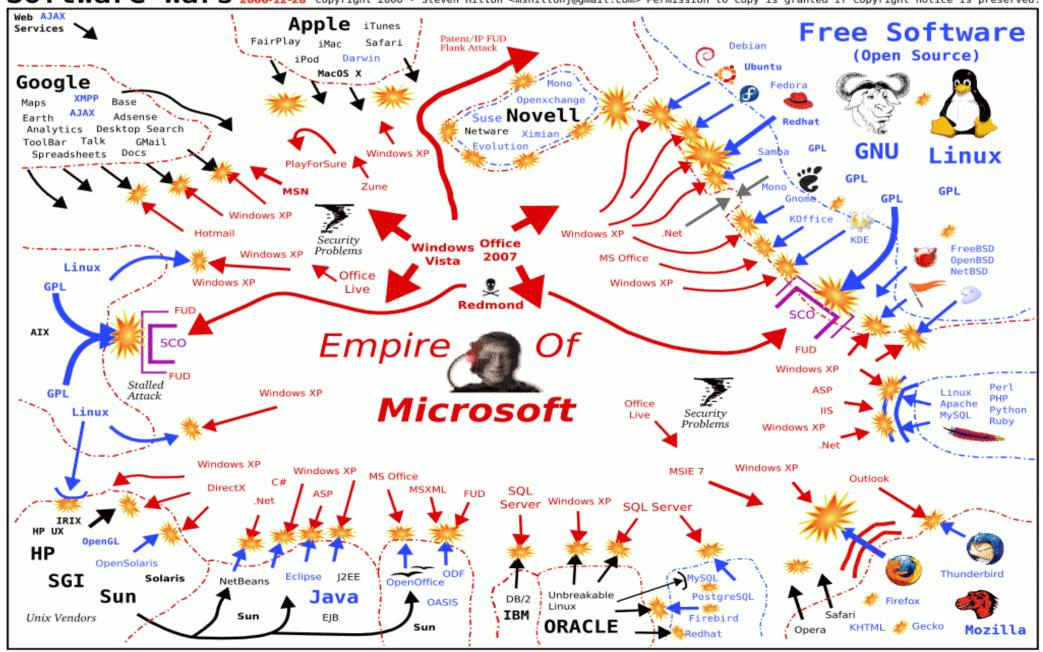
We Demonstrated Two Things:

- 1) Model: Free/Libre is Superior to Proprietary
- 2) Implementation: GNU/Linux is Superior to Windows

Free Software is Just the Tip of the Iceberg
This Same Power Has A Lot More To Offer

From Software Wars to Service Wars

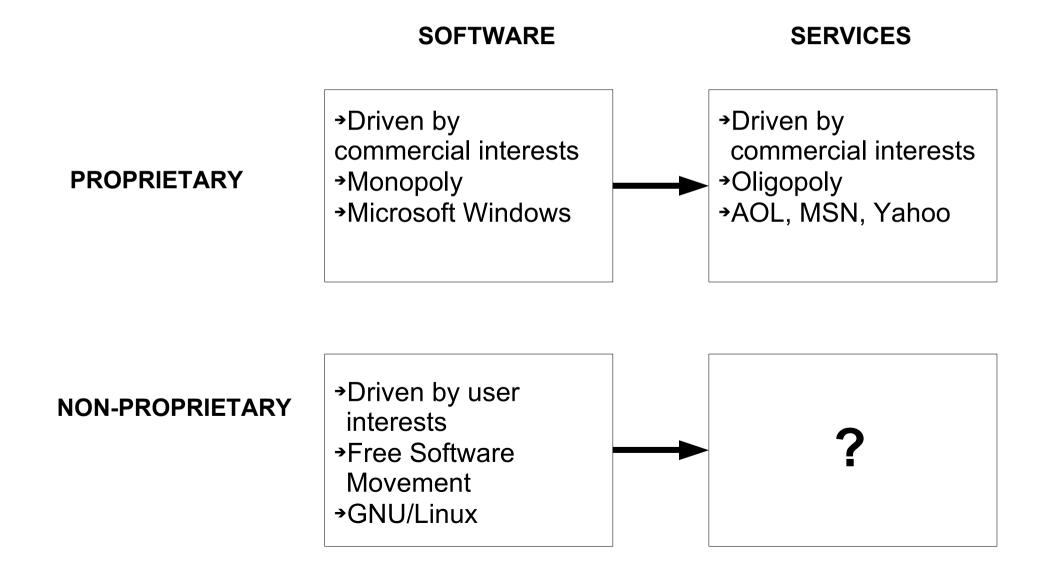
Software Wars http://mshiltonj.com/software_wars/All trademarks are property of their respective owners. Inspired by Andy Tai http://atai.org/



Libre Services

A non-proprietary model for delivery of Internet services

Proprietary vs. Non-Proprietary; Software vs. Services



Libre Services: Definitional Criteria

- 1. The service must consist entirely of open-source & free software components
- 2. The service must be based entirely on patent-free protocols
- 3. The integration software must consist entirely of free software

Hence the entire service is reproducible and modifiable based on access to source code

Extension of Free Software into Libre Services

User Environment

Network

Libre Services

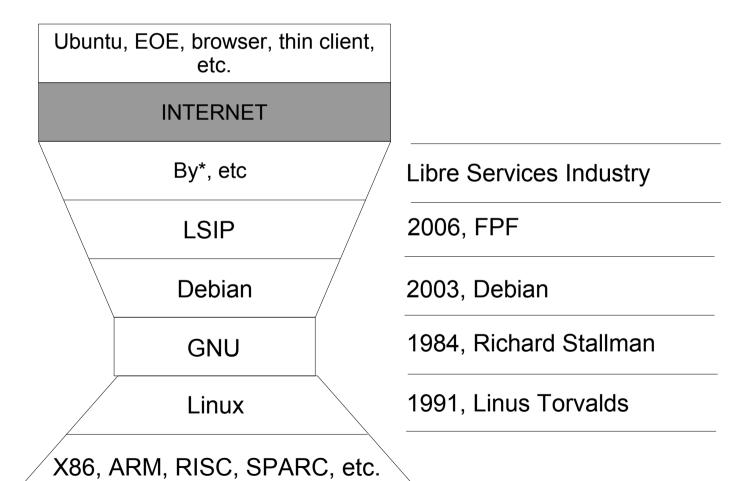
Hosting Platform

OS Distribution

Operating System

OS Kernel

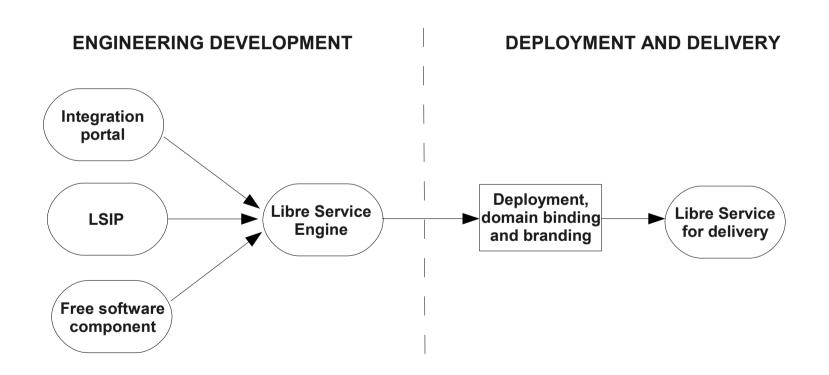
Hardware



Libre Services Engines More than LAMP

- Rudimentary Manifestaions
 - LAMP
 - Linux Apache MySQL Perl/PHP/Python
 - Savannah and Savane
 - Wikipedia and Mediawiki
 - Can we do better than that?
 - Expand it
 - Formalize it
 - Make it be cumulative

Transformation of Free Software into Libre Services

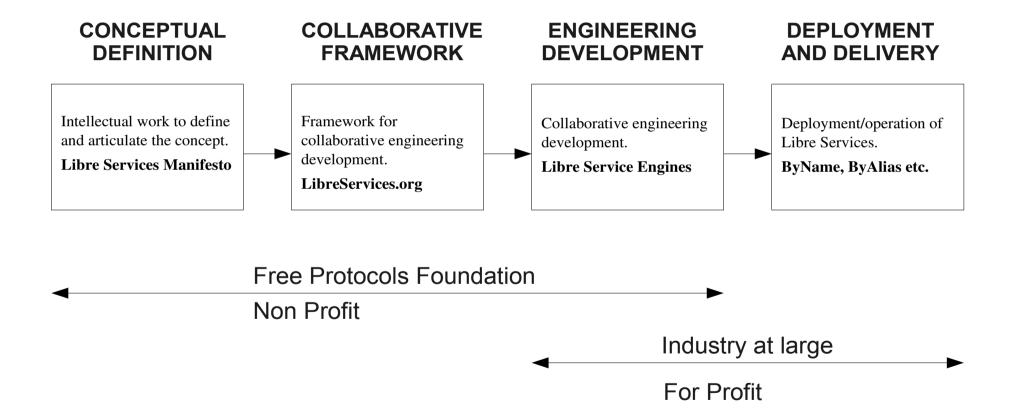


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Non-Profit and For Profit: Roles and Responsibilities



For Profit and Non-Proprietary: the Right Paradigm for Non-Material Constructs

	For Profit	Non-Profit	
Proprietary Model	Traditional: Microsoft AOL Yahoo	Conflicted: Academics Wap Forum	Copyright Patents Secrecy
Non-Propritary Model	New: Free Software Bus Redhat, Libre Services Bus Neda,	Traditional: FSF IETF FPF	Copyleft Knowledge Sharing Openness
	Pro-Business	Pro-Public	

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What is the By* Family

- By* is a coherent framework for enabling complex interactions among people, businesses and information.
 - Small and Medium Businesses: ForSMB.net
 - Individuals: ByName.net, ByAlias.net, ByMemory
 - Places and Events: ByWhere.net, ByEvent.net
 - Information: ByTopic.org
 - For Interactions: ByInteraction.net

By* Naming principles

Take full advantage of the Domain Notation depth.

mohsen.banan.1.byname.net forRent.1-98008-5765-05.bywhere.net

Design Big

Implement Gradually

By* Services Overview

Service Type	Service Name	Description	
For business	www.BySMB.com	Internet services for small-to-medium businesses.	
	www.ForSMB.com		
For individuals	www.ByName.net	ByName provides a complete set of Internet services for the individual user.	
	www.ByName.com		
	www.ByNumber.net	A similar set of services to ByName, but based on a	
	www.ByNumber.com	numerical ID assigned to the user instead of the user's name.	
	www.ByAlias.net	A similar set of services to ByName, but based on an alias	
	www.ByAlias.net	instead of the user's real name.	
	www.ByMemory.net	Convices for presenting the memory of despect names	
	www.ByMemory.com	Services for preserving the memory of deceased persons.	
For places and events	www.ByWhere.net	Services relating to physical locations.	
	www.ByEvent.net	Services relating to events.	
For information	www.ByTopic.net	Services for publication of information organized by topic	
For making things happen!	www.ByInteraction.net	ByInteraction enables transactions involving persons, business, places and things.	

Current Status

Service	Status	Comment	
www.ByName.net	Pre-operational	Major functionality complete and approaching oprtaional deployment. Component of Stage C deployment; in progress.	
www.ByName.com	гте-орегасіонаг		
www.ByNumber.net	Pre-operational	Major functionality complete and approaching oprational deployment.	
www.ByNumber.com	тте-орегасіонаг	Component of Stage C deployment; in progress	
www.ByAlias.net	Limited usage	Major functionality complete. Undergoing usage and usability testing.	
www.ByAlias.com	Limited daage	Component of Stage C deployment; in progress	
www.ByMemory.net	Operational	Operational with all basic features and functionality.	
www.ByMemory.com	Орегацина	Component of Stage C deployment; in progress	
www.BySMB.com	Operational	BySMB functionality is complete and operational, allowing website creation under the custom development model. See By* Instance Examples for active websites. Component of Stage B deployment; compete.	
www.ForSMB.com	Operational	ForSMB functionality is complete and operational, allowing website creation under the self-service model. Component of Stage B deployment; complete.	
www.ByWhere.net	Prototype	Working prototype complete. See By* Instance Examples for demonstration websites. Component of Stage D deployment; future.	
www.ByEvent.net	Concept only	At concept level only, with no functionality yet implemented. Component of Stage E deployment; future.	
www.ByTopic.net	Prototype	Working prototype complete. Complete of Stahe E deployment; future.	
www.ByInteraction.net	Concept only	At concept level only, with no functionality yet implemented. Component of Stage D deployment; future.	
www.BySource.org	Limited usage	Basic functionality complete. Undergoing usage and usability testing.	
www.ByBinary.org	Limited usage	Basic functionality complete. Undergoing usage and usability testing.	

Instance Examples

Setvice Type	Domain Name	Description	
ForSMB/BySMB	www.neda.com	A software development and Internet services company. An extensive and comprehensive website with over 100 pages. Technologies: Jetspeed, Tomcat, Gallery.	
	www.NewDinnerware.com	An online store selling fine porcelain tableware. Includes standard e-retail features: shopping cart, checkout, credit card payment. Technology: Interchange	
	www.TalkToUS.org	A non-profit organization promoting better international understanding. Enables communication via short personal video messages. Technologies: Jetspeed, Gallery, streaming video	
	www.PinaMotorsports.com	An auto repair and specialized auto customization shop. Technologies: Plone/Zope, Interchange, Gallery	
	www.Payk.net	A non-profit organization for grassroots communication among Iranians. Technologies: Plone/Zope, Gallery	
	www.AllMuslimCemetery.org	An Islamic cemetary. Related to ByMemory; many gravesites have associated ByMemory memorials. Technology: Plone/Zope.	
	www.LibreServices.org	A non-profit forum and resource center for development of Libre Services. Technology: Plone/Zope	
	www.BySource.org	Free Software distribution center	
ByMemory	yazdan.1.banan.bymemory.net	A memorial site. Includes a genealogy and photo gallery; multilingual. Technologies: Plone/Zope, GeneWeb, Gallery	
ByName	mohsen.banan.1.byname.net	A personal website for a professional engineer. Includes a genealogy and photo gallery; multilingual. Technologies: Plone/Zope, blog, GeneWeb, Gallery	
ByWhere	info.1-98008-5807-10.bywhere.net	A ByWhere site used to provide address and driving directions. Technologies: Apache, Gallery	
	ForRent.1-98008-5765-05.bywhere.net	A ByWhere site used to provide house rental information. Technologies: Apache, Gallery	

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By* Features and Capabilities

- A named entity domain Owned by the entity
 - A public website: My Internet
 - An expanded website for friends: My Extranet
 - A private portal: My Intranet
- By* Libre Self-Publication Facility
- By* Libre Texting
- Email, e-fax, etc.
- Blog, photo gallery, GeneWeb, etc.

Service, Desktop, Laptop, PDA Continuum

Free/Libre everywhere

- Consistent OS: Linux everywhere
- Consistent GUI: Gnome everywhere
- Consistent Applications: Emacs, ... everywhere

Deep, Broad and Consistent Integration through
Free Software and Libre Services

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By* Libre Services: Software Components

- Debian GNU/Linux
- Base: djbdns, daemontools, ucspi, multilog, ...
- Mail: qmail, courier, spamassassin, ezmlm, ...
- Web: apache, zope, plone, ...
- Misc: postgres, mysql, Interchange, ...
- Glue: Libre Services Integration Platform (LSIP)

Libre Services Integration Platform (LSIP)

Mohsen BANAN -- http://mohsen.banan.1.byname.net/

Neda Communications, Inc. -- http://www.neda.com/ http://www.neda.com/PLPC/

CopyLeft – Verbatim Copying Permitted

Problem Domain of LSIP

- How do you efficiently manage/administer/support a cluster of 20 or more Linux boxes?
 - Consistency of software and system
 - Consistent Tools
 - Naturally enforced discipline
 - Host and Site Abstraction

LSIP Features

- Fully Automated Installation and Regeneration
- Distribution Independence
 - Currently Supported: Debian, Ubuntu, Solaris
- Persistent Host Abstraction Profile Definitions
- Site Description Multi-Site Support
- Software Components Consistency Framework
- Names and Address Administration

LSIP: Features

- Consistent Host Updates / Verification
- Service Provisoining
- Service Management
- Host/Site Monitoring

Design and Implementation Notes

- Mostly implemented in bash/ksh scripts
- Consistent Administration of Software Components enforced through seed modules.
- Large Systems Administration Library
- Software Component Adoption Framework (lca)

LSIP Adopted Software Components

• WEB

- apache, zope, plone, interchange, tomcat, jetspeed

Mail

- qmail, ezmlm, imp, squirrelmail, spamassassin, courrier imap

Data Bases

- mysql, postgres

LSIP Adopted Software Components

- DNS: djbDNS
- Security: ferm, snort, tripwire
- Monitoring: nagios, mrtg
- Software development Support
 - cvs, subversion, gnats
- Disk Facilities
 - rsync, samba, sshfs

Getting LSIP Scripts

- wget http://www.bysource.org/lsip/lpGenesis.sh
- ./lpGenesis.sh
 - Just respond to the prompts
- Anonymous CVS:
 - cvs -d :pserver:anoncvs@cvs.bysource.org:/rep1
 checkout -d osmt public/osmt

LSIP CopyLeft License

- Afero GPL V3 License
- LSIP is Open-Source and Free Software
- Dual Licensed if needed

LSIP Documentation

- Mostly Self documented with "Roadmap" modules.
- Libre Platform Genesis Process:
 - http://www.neda.com/PLPC/110101
- LSIP Design and Implementation Notes (Draft)
 - http://www.neda.com/PLPC/110501

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The Neda Open Business Plan

- http://www.neda.com/StrategicVision/BusinessPlan
- Open Business Plan Available to All
- Broad audience: engineers, academics, investors
- Jujitsu on patents and copyright
- Engineers start here:

http://www.neda.com/StrategicVision/Participating/Engineering

• Investors start here:

http://www.neda.com/StrategicVision/Participating/Investment/StartHere

Conceptual Foundations

Neda By* Family of Libre Services
The future of the Internet Services industry
Open Business Plan
http://www.neda.com/StrategicVision/BusinessPlan

The By* Concept
A Unified Model for Internet Services
http://www.by-star.net/

Libre Services Concept
A non-proprietary model for delivery of Internet services
Free Protocols Foundation
http://www.libreservices.org/

Free Software / Open Source Concept The GNU Manifesto (1985) http://www.fsf.org ...

The Copyleft Concept
GPL / FDL / ...
http://www.gnu.org/copyleft

NEW

Established

Above All: This is a Model Play

The (so-called) Intellectual Property Rights model is in conflict with nature

The Libre Services model:

Total rejection of patents and copyright

A huge business opportunity

The Source of the Force The Heart of the Matter

Software and Internet Services are non-material constructs.

As such they flourish when liberated from the restrictive intellectual property regime.

If you don't get this, you will not be a key participant

The Traditional Business Model for Software and Services

- Exit-strategy oriented
- 20% real, 80% Ponzi scheme
- Redistribution of wealth just as good as creation of wealth. Spin-and-flip, pump-and-dump the norm.
- Intellectual Property Rights an integral part of the game
- Cooked up behind closed doors: more scheme than plan
- In 1998 Nasdaq at 1900; in 2000 up to 5000; in 2008 down to 1500
- Driven by the DotCon artist (who thinks he's a businessman!)

The Business Model for By* Libre Texting

- For profit: real profit, creation of wealth
- Non-proprietary: patent-free and copyleft
- Open and transparent Business Plan
- Based on the Libre Services model
- Driven by Internet engineers

Our Principal Sustainable Advantage

Lots of Coherent Established Assets

+

A complex business model based on rejection of patents and copyright

Software engineers are best suited to lead this

From Free Software to Libre Services with a Clear Revenue Model

Proprietary Internet Services

- Limited competitive development model
- Clear revenue model

Proprietary software

Free software

Free Software Domain

- Powerful generative development model
- No clear revenue model

Transformation of software into services

Libre Internet Services

- Powerful generative development model
- Clear revenue model

By* Services

- Powerful generative development model
- Clear revenue model
- A unified Internet services model

Start with By* Libre Texting

- The demand is there
- We have all the assets
- The time is right

Then expand the scope to the full By* Libre Services

Execution and Revenues: Clear and Straightforward

Execution

- Device: Linux PDAs, in place
- Service: By*, in place
- Mobile network: *in place*

- Software: Libre/Free, in place
- Public spectrum: in place
- Plan: Well developed, in place

Revenues

- Individual: subscription
- Corporate: software as service
- Products:CPE+service
- Vertical integration

Revenue Table

	Pre-By* revenues	BySMB / ForSMB	ByName.net ByNumber.net ByAlias.net ByMemory.net	ByName.com ByNumber.com ByAlias.com ByMemory.com	ByWhere ByInteraction	ByEvent ByTopic By* user environments	Registrar	Libre Engines, WhiteBerry
Hosting		В						F
Subscriber Services			С					F
Advertising				D	D			
Transaction fees					D			
Franchising		E	E	E	Е			
Website development & customization		В	С					
Deployment & software consulting			С					F
Registration processing fee							E	
Software licenses								F
Colocation	Α							
Consulting	А							
No revenues				С		E		

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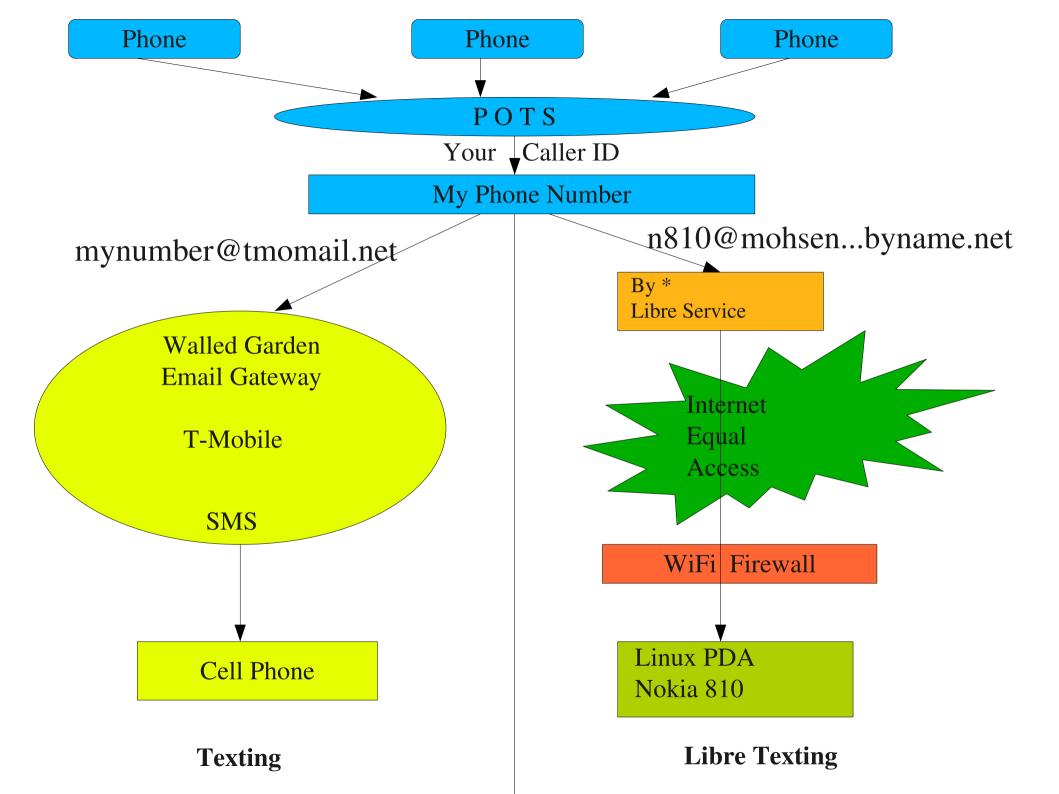
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Our Goal: Liberate Texting

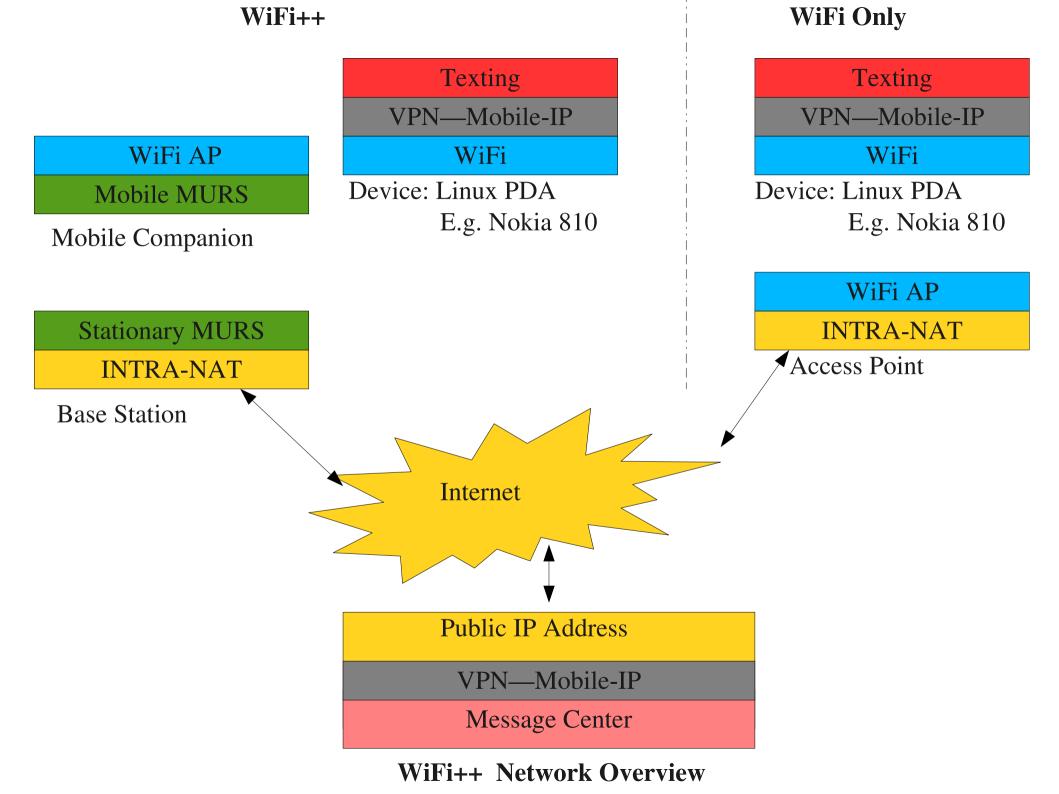
- Break the phone companies' hold
- Make texting a Libre Service
- Break the walled garden: make it end-to-end
- Move it to the for-profit, non-proprietary quadrant

Bring texting into the Internet mainstream



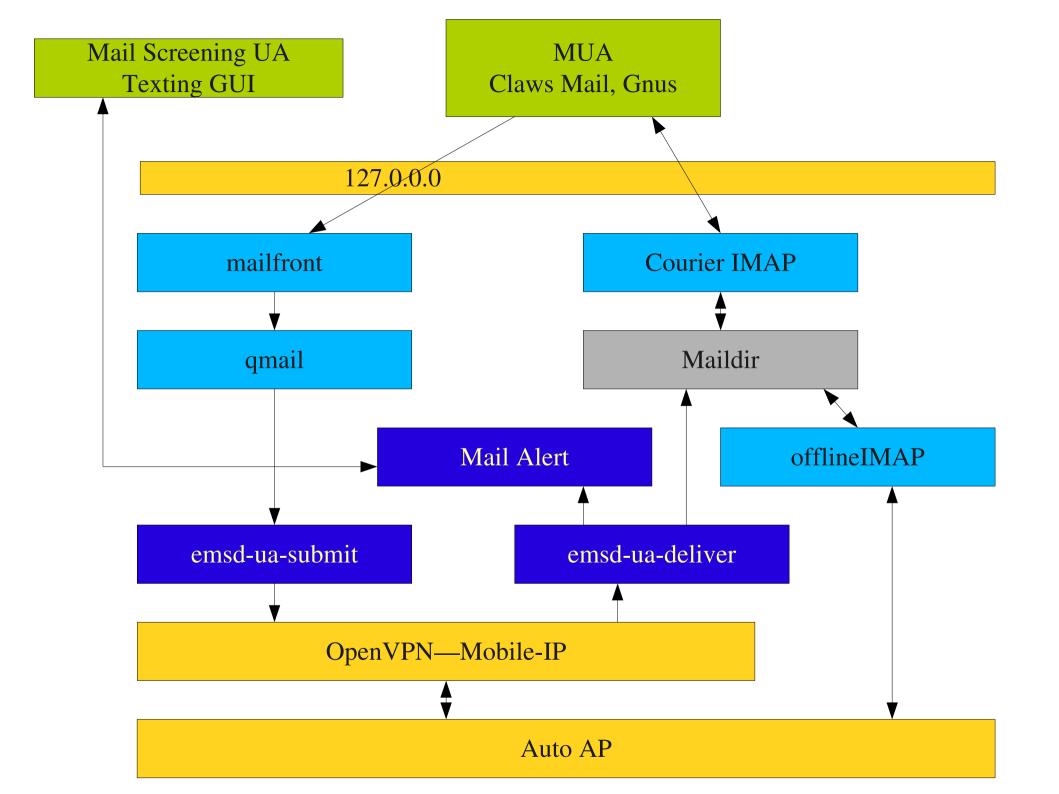
Implementing By* Libre Texting: Scenario: WiFi-Only

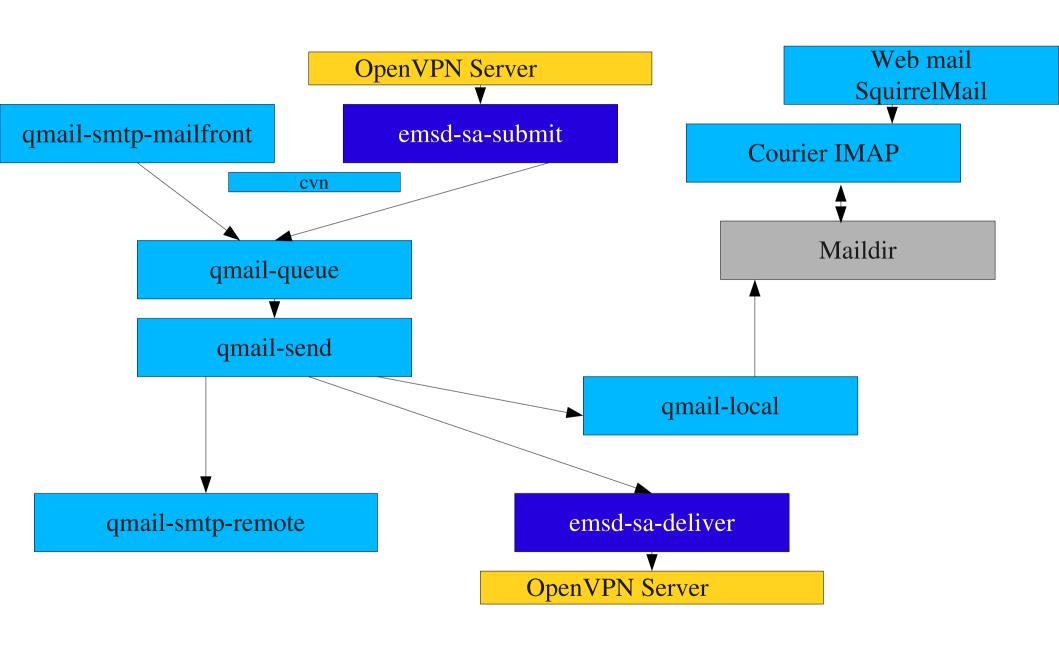
- 1. Buy a Linux PDA, e.g. Nokia 810
- 2. Load it with mobile texting software
 - http://www.bybinary.org/
 - Or 1 & 2 combined: buy a preconfigured Nokia 810 texting device
 - http://store.neda.com/
- 3. Get a ByName Libre Texting account
 - http://www.byname.net/



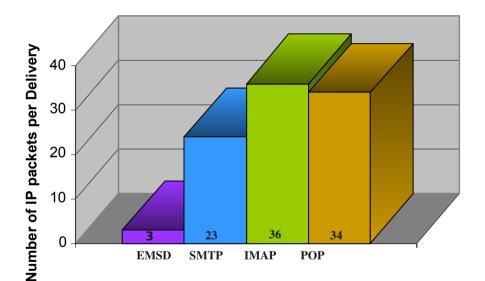
Libre Texting: Parts List

- Network
 - Public spectrum (unlicensed)
 - Existing Mobile and wireless networks
- Device
 - Hardware: Linux PDAs (N-810, Mobile Internet Device)
 - Software: Free/Libre -Linux (Maemo, Ubuntu MID)
- Server and Service
 - Free/Libre server software
 - Competitive Libre Texting services
- Protocols
 - Efficient push-enabled patent-free protocols





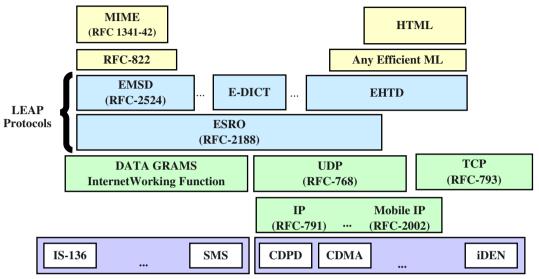
What is EMSD?



Bandwidth Efficiency

• Efficiency Benefits:

- Efficient use of carrier network
- Lower costs per minute of use
- Longer battery life
- Reduced latency for user access



LEAP is a family of protocols:

- ESRO: Efficient Short Remote Operations
- EMSD: Efficient Mail Submission & Delivery
- EHTD: Efficient Hyper Text Delivery (in progress)
- ...

• Technical Attributes:

- Technical excellence
- Ideal for wireless & mobile applications
- Native IP & wireless-IP
- Truly open & patent-free
- RFC published

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This is big and we are small, but lots is in place

- EMSD protocols
- By* Libre Services
- Leadership of the Libre Services movement
- Fully committed to Libre: GNU/Linux everywhere
- Our own Data Center: LibreCenter.net
- Our own wireless network (MURS, WiFi)
- Well-developed Business Plan

For you to Evaluate: All our Cards on the Table

Neda Open Business: 2009 By* Libre Services

• Libre Services Manifesto PLPC-100105

• ByStar full picture PLPC-110004

• Unsolicited Proposal PLPC-110005

• By* Libre Texting PLPC-110012

• Operation Whiteberry PLPC-100006

• LEAP Manifesto PLPC-100012

Join Us! Make it Happen in a Big Way

- Engineering community: Ideas, code, integration
- Business community: Buy into the Libre model, take the code, partner up, deploy the services
- Investment community: Financing
- Academic community: Ideas, code, integration, analysis, discussion
- Funding NGOs: Grants
- Government: Grants
- Society: Usage, testing, dialogue, awareness
- Media: Articles, analysis, discussion

Current Active Projects

- Sophisticated access point selection
- Qmail/EMSD integration
- Mail alert
- Linux PDA ports: Android, ZipIt
- EMSD and ESRO enhancements
- Texting GUI
- Mobile IP
- Public spectrum AirLink

Neda By* Open Business Plan – PLPC-110002

Texting

Google Yahoo MSN By* Libre Texting Service

By*
ByName, ByAlias
ByMemory, BySMB

ByEntity/By* Libre Engine PLPC-110502 By* Libre
Texting
Device

By*
Gnome
EOE

By*Libre

User Environment

By* PDA Env

By* Libre Services -- PLPC-110001

Libre Services Integration Platform PLPC-110501

Libre Platform Genesis Process PLPC-110101

Libre Services -- PLPC-100102

Microsoft Windows Maemo

Ubuntu

Debian

Debian GNU/Linux Packages

GNU/Linux

Non-Free

Free Software