BLEE (ByStar Libre Emacs Environment):

A Deeply Integrated Emacs User Environment For the Software-Service Continuum

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

http://www.neda.com/Records/201105011

April 29, 2011

About This Document

- This document is web published as Records-201105011 at: http://www.neda.com/Records/201105011

Part I

Introduction – What Is Blee

Part 1: Introduction – What Is Blee

Emacs Is:

Emacs Is A Good Way Of Living

- Emacs is the n'est plus ultra editor
- Emacs is a rich lisp engine
- Emacs is an editor centered user environment
- Emacs is an integration platforms
- Emacs is lots of applications
- Emacs is Halaal – Libre/Free
- Emacs is Convivial

Blee Is:

Bystar Libre Emacs Envirnoment

- Blee is a layer over Emacs
- Blee is Emacs integared with the Firefox and Gnome
- Blee is Emacs intgrated with Bystar Autonomous Libre Service
- Blee is Emacs made easy for out of the box usage

Libre Services:
A non-proprietary Model for delivery of Internet services

A non-proprietary Model
for
delivery of Internet services

Free Software Ideology For Internet Application Services

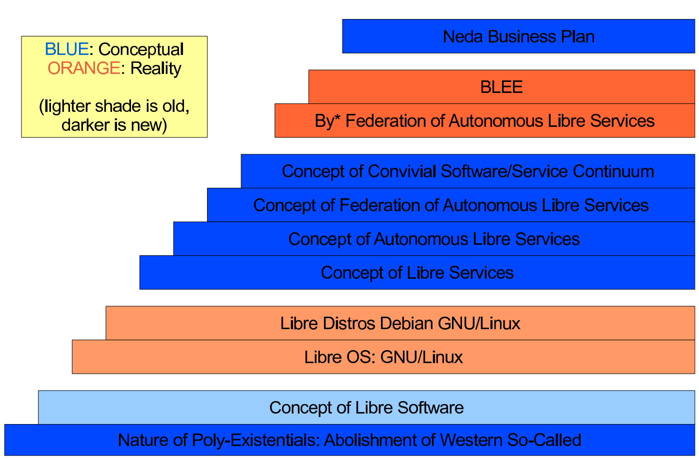
From Free Software To Libre Services

	SOFTWARE	SERVICES
PROPRIETARY	→ Driven by commercial interests → Monopoly → Microsoft Windows	→ Driven by commercial interests → Oligopoly → AOL, MSN, Yahoo
NON-PROPRIETARY	→ Driven by user interests → Free Software Movement → GNU/Linux	?

What Is The ByStar 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

Layering of Concepts and Results



Roadmap

- Language, Definitions, Models and Concepts
- The Blee Model
- Blee Horizontal Capabilities
- Blee Vertical Slices (Feature Families)
- Getting Blee

Part II

Language, Definitions, Models and Concepts

Part 2: Language, Definitions, Models and Concepts

Concepts and Definitions Summary

- Libre Services
- Autonomous Libre Services
- Federation of Autonomous Libre Services
- Nature of Poly-Existentials
- Tools For Conviviality
- Halaal and Haraam

Nature Of Poly-Existentials

- So Called Western IPR is in conflict with Nature
- What Are Poly-Existentials:
- Multi-Possessabilty
- Ownership is a one-to-one relationship
- An Ownership Mistake With Ramifications Broader than Slavery
- Pointer to PLPC – Full title in box

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

Autonomous Libre Services: Definitional Criteria

1. Service Transparency – Libre Services: Definitional Criteria
2. Service Portability – Libre Services: Definitional Criteria
3. Data Portability (from hosting/provider to hosting/provider)
4. Non-Retention of Data (by host/provider)
5. End-To-End Non-Restrictivity

Autonomous Libre Services: Degrees of Trust and Autonomy

- User Owned – Provider Managed
  - Libre Shared Hosting Subscriber SLA, AUP
  - Libre Shared Hosting Advertisment SLA, AUP
- User Owned – User Managed
  - Libre Center Co-location / Dedicated Hosting
  - Cloud Based Hosting
  - At User Premise – your own machine and dedicated IP Address

While All Is Supported, The Guarantee of “At User Premise” option should always be maintained.

ByStar Autonomous Libre Services

- Individual (Named, Living) – ByName.com - ByName.net
- Individual (Alias, Living) – ByAlias.com - ByAlias.net
- Individual (Minor) – ByFamily.com, ByFamily.net
- Individual (Named, Deceased) – ByMemory.com - ByMemory.net
- Individual (Information) – ByAuthor.net, ByAuthor.com
- Families – ByFamily.com, ByFamily.net
- Small/Medium Businesses – BySMB.net, ForSMB.net
  Domain is usually redirected to business's domain
- Locations: ByWhere.net

All of These ByStar Autonomous Services are available as Shared Hosting, Dedicated Hosting, Colocation and ByStar Appliances.

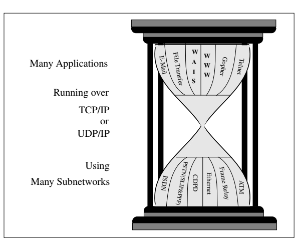
Federated Libre Services: Definitional Criteria

1. Service Transparency – Libre Services: Definitional Criteria
2. Service Portability – Libre Services: Definitional Criteria
3. Public Data Designated By Autonomous Libre Service
4. Safeguards of Private Data and Non-Retention of Data on command
5. Logs confidentiality and transparency
6. Based on Facilitation of End-To-End Interactions

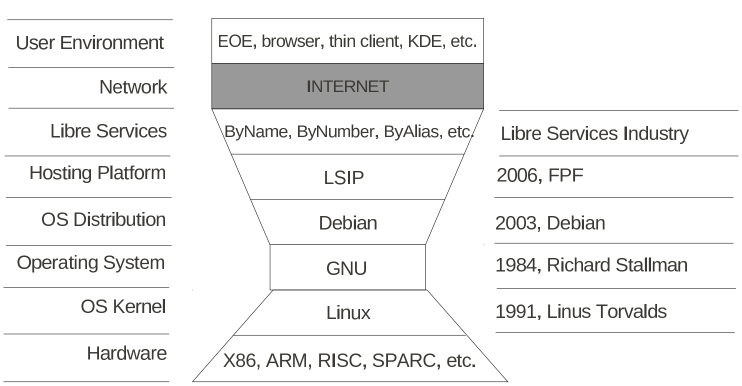
Software - Service Continuum – Where Proprietary Looses

Service, Desktop, Laptop, PDA Continuum Free/Libre everywhere
Hour Glass= Diversity on Top – Diversity at the Bottom – Cohesion and Convergence in the middle
Consistent OS: Linux everywhere Consistent GUI: Gnome everywhere Consistent Applications: Emacs, ... everywhere
Deep, Broad and Consistent Integration through Free Software and Libre Services

Protocols Hour Glass – Note Convergence in the Middle



ByStar Hour Glass – Importance of Convergence in the Middle



Service, Desktop, Laptop, PDA Continuum 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

Ivan Illich's Concept of Convivial Tools

Tools are intrinsic to social relationships. An individual relates himself in action to his society through the use of tools that he actively masters, or by which he is passively acted upon.

To the degree that he masters his tools, he can invest the world with his meaning; to the degree that he is mastered by his tools, the shape of the tool determines his own self-image. Convivial tools are those which give each person who uses them the greatest opportunity to enrich the environment with the fruits of his or her vision. Industrial tools deny this possibility to those who use them and they allow their designers to determine the meaning and expectations of others. Most tools today cannot be used in a convivial fashion.

Convivial Software

- Unix/GNU Vs Microsoft Windows
  - Unified file model, pipe, small dedicated progs, ...
- Emacs vs Vi
  - buffers, major-modes, minor-modes, key-maps, frames, windows, regions,
- qmail vs sendmail
  - complete separation of queuing and spooling from submission, delivery and protocols.

Enable the tool user to be creative and expressive

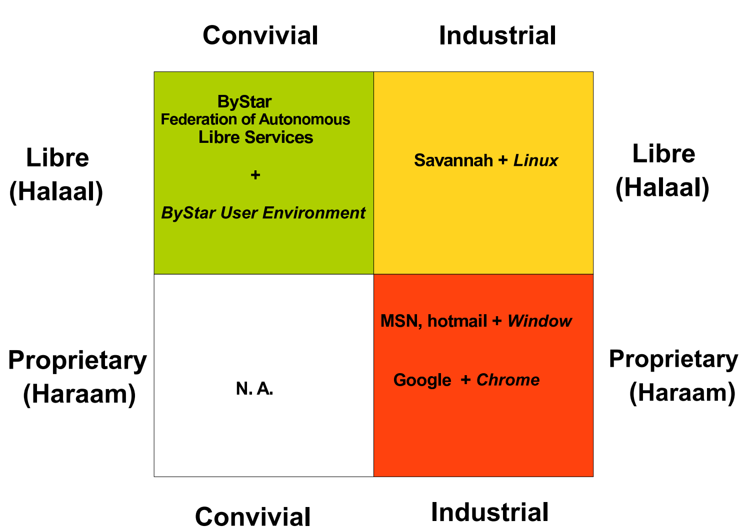
Halaal and Haraam – Ethics of Software and Service

- Halaal means Moral/Ethical – Okay to do/consume
- Haraam means Immoral/Unethical/Harmful – Should Not Be Done/Consumed

Defining Halaal Software/Internet Service:

1. Is A Perpetual Transparent Modifiable Poly-Existential – Equivalent of "Free Software"
2. Its Use Has Been Endorsed By The Engineering Profession
3. Its Use Has Not Been Prohibited By Ethicists (Sources of Emulation)

Halaal and Convivial Software Quadrant

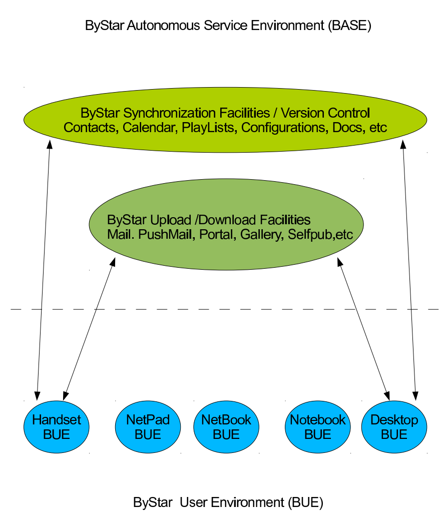


Part III

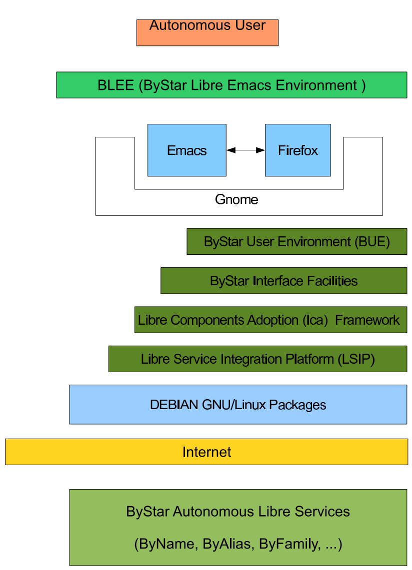
The Blee Model

Part 3: The Blee Model

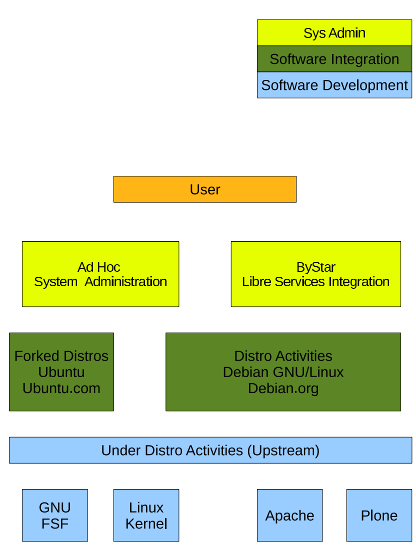
Interface Model of ByStar User Env and ByStar Services



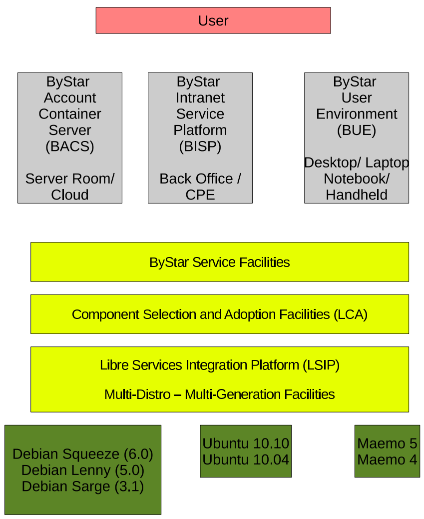
ByStar Libre Emacs Environment (BLEE) Model



General Nature of Under, At and Above Distro Activities



The ByStar Over Distro Development Model



Design Big, Implement Gradually

Design Big, Implement Gradually
Autonomous First
Convivial Design

Part IV

ByStar Vertical Slices (Feature Families)

Part 6: ByStar Vertical Slices (Feature Families)

ByStar Vertical Slices

- Functionality's that span
  - ByStar User Environment
  - ByStar Autonomous Libre Services
  - ByStar Federated Libre Services

List of Vertical Slices

- Primary Vertical Slices
  - Email / Messaging (qmail) ByStar Vertical Slice
  - CMS / Plone ByStar Vertical Slice
  - Self Publication Vertical Slice
  - Integrated Public Key Infrastructure
- Auxiliary Vertical Slices
  - Music (Audio) Vertical Slice
  - Photo / Video Gallery
  - Genealogy
  - eFax/Scanning Document Management Service
  - VoIP

ByStar Email / Messaging Vertical Slice

- qmail based
- Single Domain, Multi-Address. Multi-Mailbox Model
- Gnus under Blee
- embedded MTA on User Environment
- Libre Texting, Push Email
- NOTYET, qmail figures come after this.

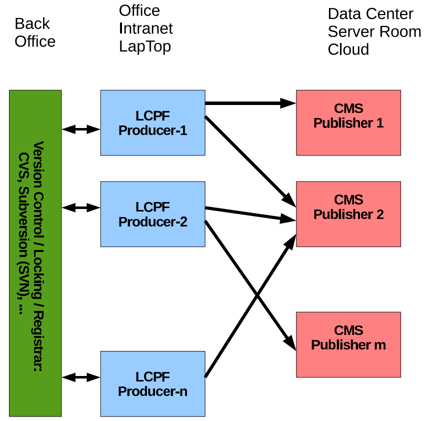
CMS / Plone Vertical Slice

- ploneProc.sh

Self Publication Vertical Slice

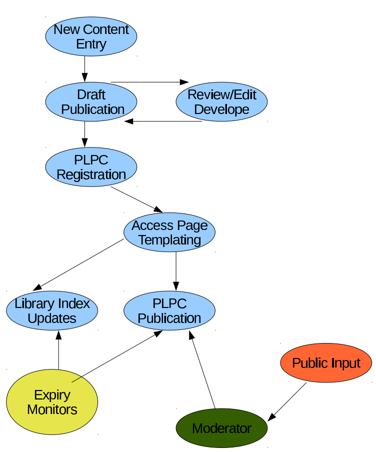
- More Info at: http://www.neda.com/PLPC/110506
- Adopted Components: TeX, XeTeX, tex4ht, Plone
- ByStar Modules: lcntProc.sh, Libraries
- In Blee: Menu Supported
- Supporting Autonomous Services: ByName, ByAlias, ByMemory
- Supporting Federated Services: ByContent, ByTopic

ByStar Content Publication Model



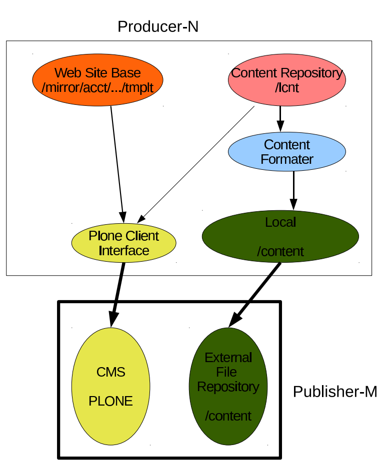
Libre Content Publication -- Model

ByStar Content Publication Workflow



Libre Content Publication – Work Flow

ByStar Content Publication Architecture



Libre Content Publication Facilities – Architecture

Other Vertical Slice

- ByStar Music
- ByStar Photo/Video Gallery
- ByStar Genealogy
- ByStar Fax/Scanning (Document Management System)
- ByStar VoIP

ByStar Photo/Video Gallery Vertical Slice

- Adopted Components: mpd, mpc, mplayer, emms
- ByStar Modules:
- In Blee: Menu Supported
- Supporting Autonomous Services: ByName, ByAlias, ByMemory, BySMB

Part V

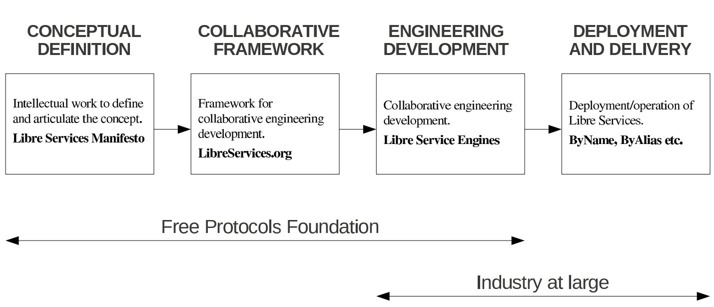
Framework For Participation, Collaboration and Guard

Part 9: Framework For Participation, Collaboration and Guardianship

Collaborative Development Framework

- Working Together ...

The Collaborative Model From Concept To Service Delivery



Spread The Word

- I don't Own By* Libre Service – You Don't Own By* Libre Services
- We All Own By* Libre Services
- Use It As You Wish – Make It Be What You Want
- Stay Autonomous
- Spread The Word

Key Documents

- Neda Open Business:
- By* Libre Services Libre Services Manifesto PLPC-100105
- ByStar full picture PLPC-110004
- Unsolicited Proposal PLPC-110005
- By* Libre Texting

Colophon

- Produced with Halaal Software and Halaal Internet Services.
- It uses LaTeX, beamer, ByStar, Blee, Emacs, ...

Colophon

- Totally Libre and Copyleft
- No proprietary software used in preparation, presentation and communication of this information
- Slides prepared with beamer-latex
- Presented using Ubuntu-Debian-GNU-Linux and Maemo on PDA
- Served as an Autonomous Libre Service using Debian, Apache, Plone, ...

Questions/Comments/Discussion