# BLEE (ByStar Libre Emacs Environment): A Deeply Integrated Emacs User Environment For the Software-Service Continuum LinuxFest NW 2011

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

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## Preface

Hello, Salaam.

My name is Mohsen BANAN.

I am a Software Engineer.

I offer you these thoughts as part of the Internet Engineering Profession's responsibility to Society and Humanity.

I solicit your feedback and welcome your comments.

The title of this presentation is xxxx.

With your comments and feedback you can reach me at: contact or email me at feedback@mohsen.1.banan.byname.net.

## About This Document

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

## Part I

# Introduction – What Is Blee

## 1 What Is Emacs?

### 1.1 Emacs Is:

**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

### 1.2 Blee Is:

**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

# 2 What Are ByStar Libre Services

## 2.1 Libre Services: A non-proprietary Model

**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

## 2.2 From Free Software To Libre Services

## 2.3 What Is ByStar

- 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

## 2.4 Layering of Concepts and Results

# 3 Roadmap

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

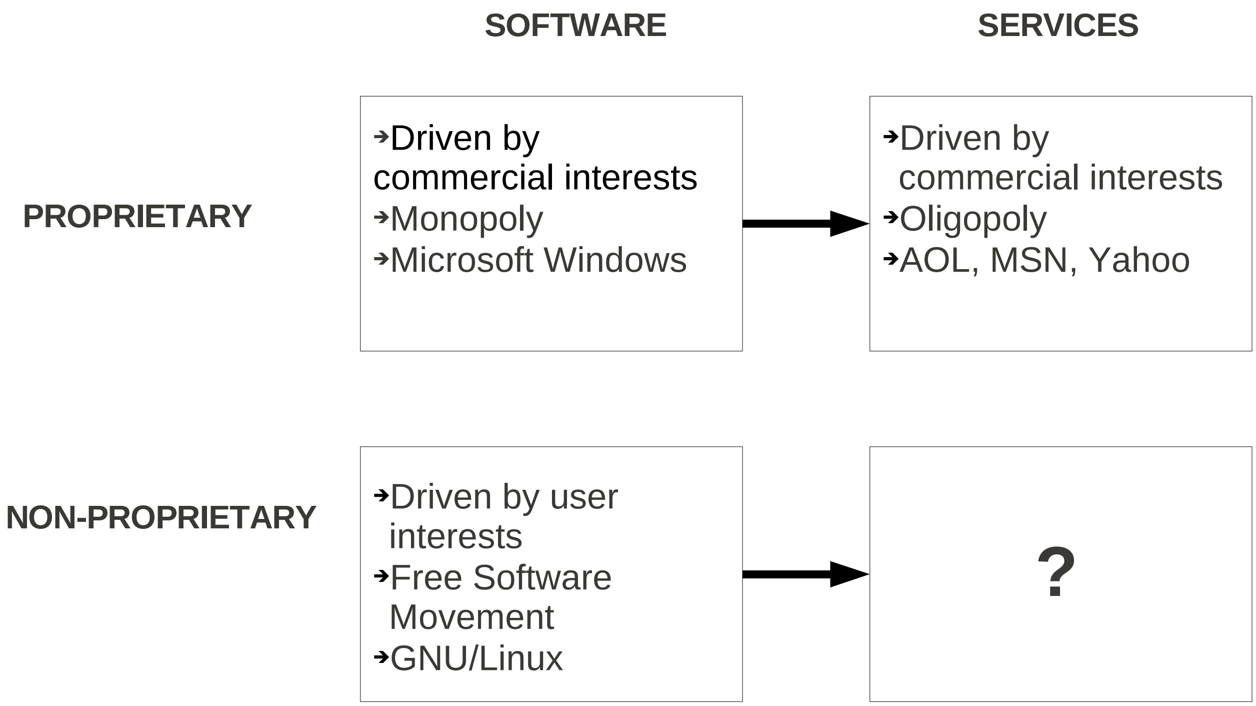


Figure 1: From Free Software To Libre Services

# Part II

# Language, Definitions, Models and Concepts

## 4 Concepts and Definitions Summary

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

### 4.1 Nature Of Poly-Existentials

- So Called Western IPR is in conflict with Nature
- What Are Poly-Existentials:
- Multi-Possessabilty

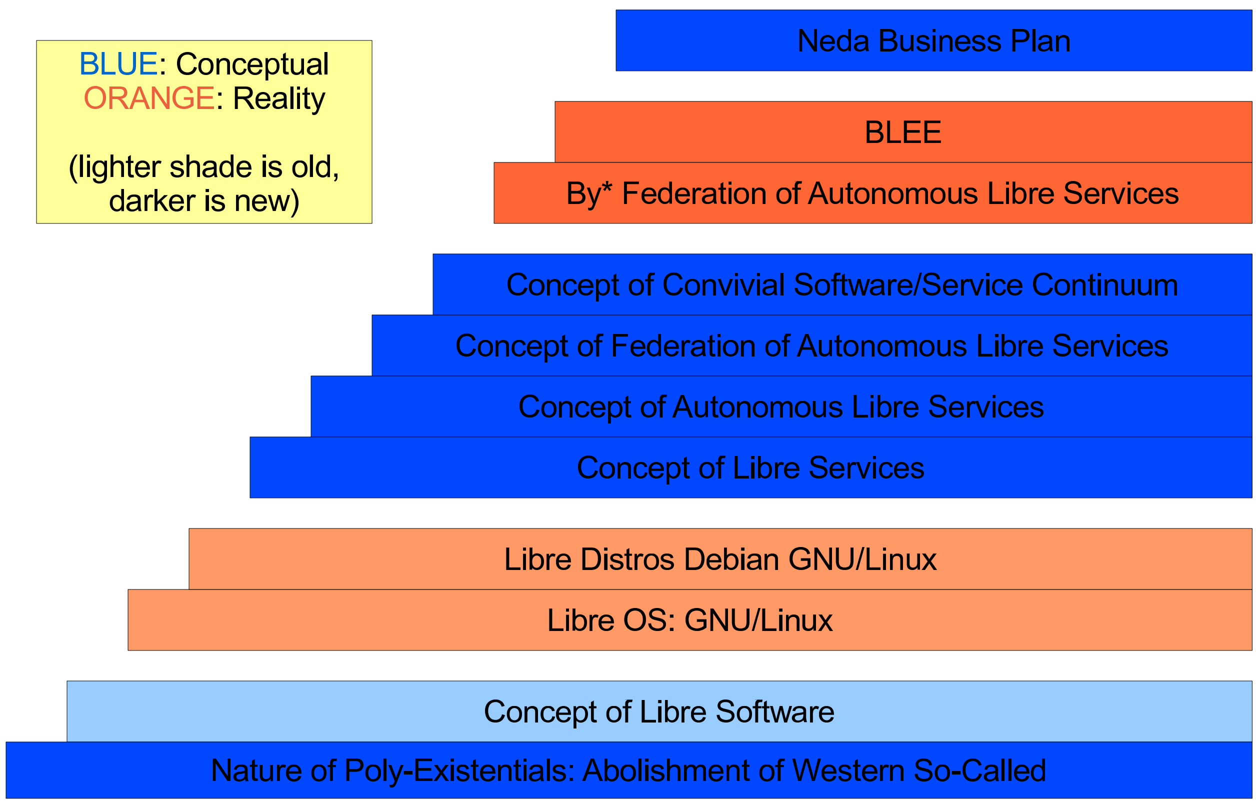


Figure 2: Layering of Concepts and Results

- Ownership is a one-to-one relationship
- An Ownership Mistake With Ramifications Broader than Slavery
- Pointer to PLPC – Full title in box

# 5 Some Definitional Criteria

## 5.1 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

## 5.2 Autonomous Libre Services

### 5.2.1 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

### 5.2.2 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.

### 5.2.3 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.

## 5.3 Federated Libre Services

### 5.3.1 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

# 6 Some Modeling Concepts

## 6.1 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

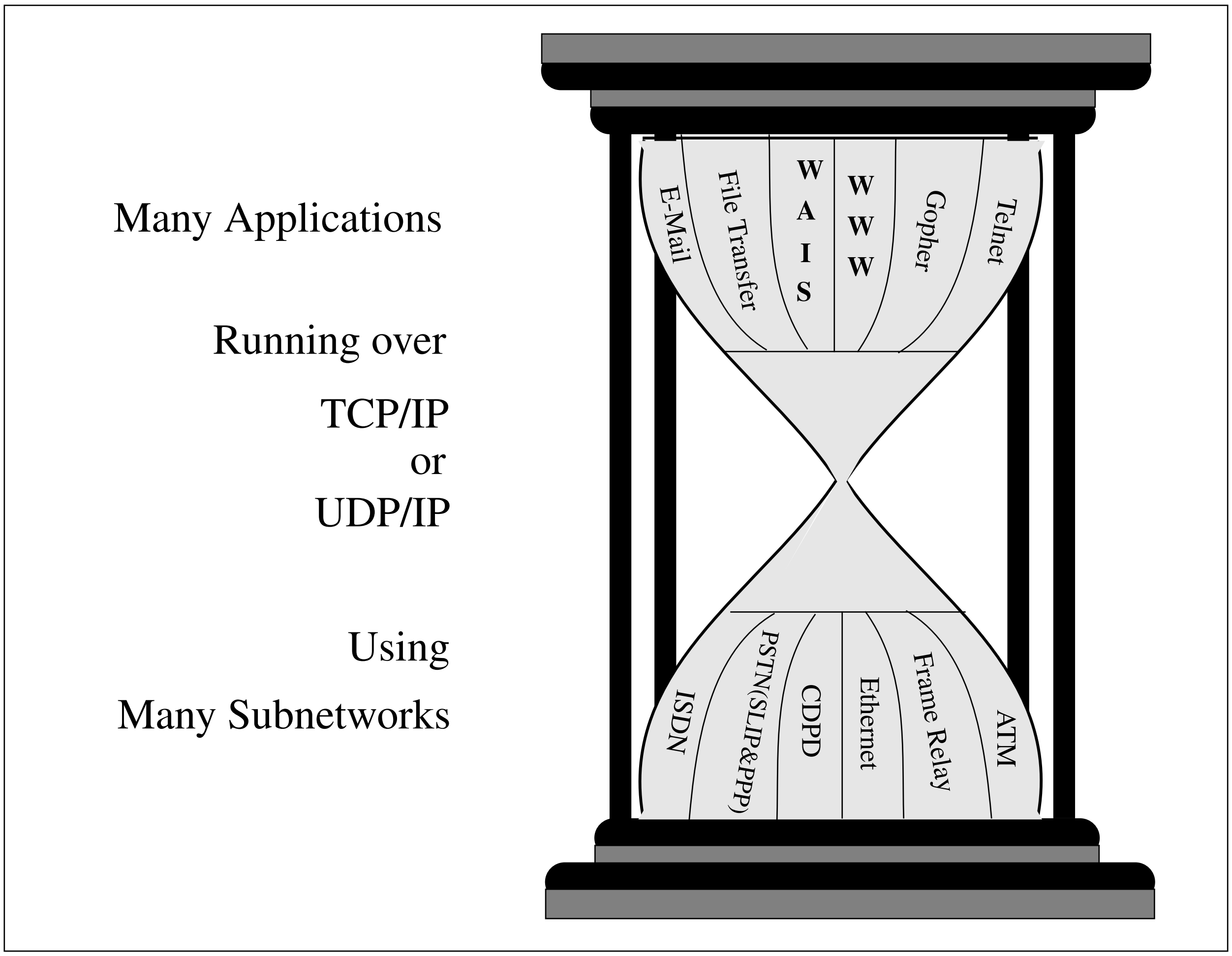


Figure 3: Protocols Hour Glass – Note Convergence in the Middle

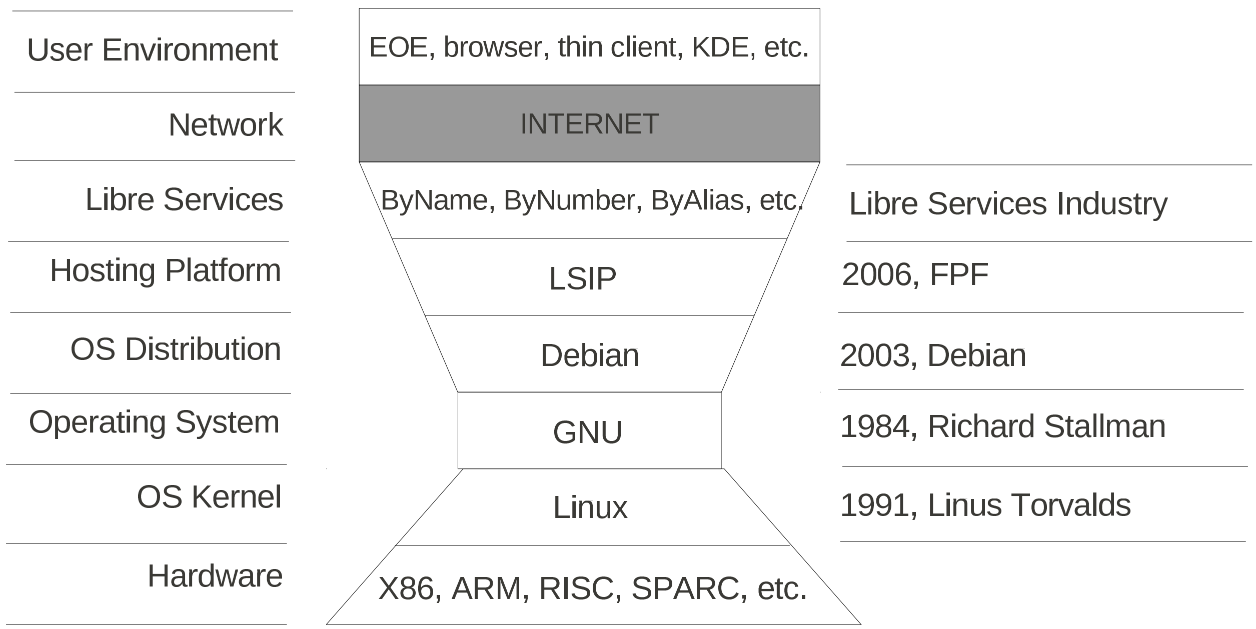


Figure 4: ByStar Hour Glass – Importance of Convergence in the Middle

#### 6.1.1 Protocols Hour Glass – Note Convergence in the Middle

#### 6.1.2 ByStar Hour Glass – Importance of Convergence in the Middle

#### 6.1.3 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

# 7 Some Societal Concepts

## 7.1 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.

#### 7.1.1 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

### 7.2 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)

#### 7.2.1 Halaal and Convivial Software Quadrant

# Part III

# The Blee Model

## 8 Interface Model of ByStar User Env and ByStar Services

## 9 ByStar Libre Emacs Environment (BLEE) Model

## 10 An Over Distro Model

### 10.1 General Nature of Under, At and Above Distro Activities

### 10.2 The ByStar Over Distro Development Model

### 10.3 Design Big, Implement Gradually

Design Big, Implement Gradually

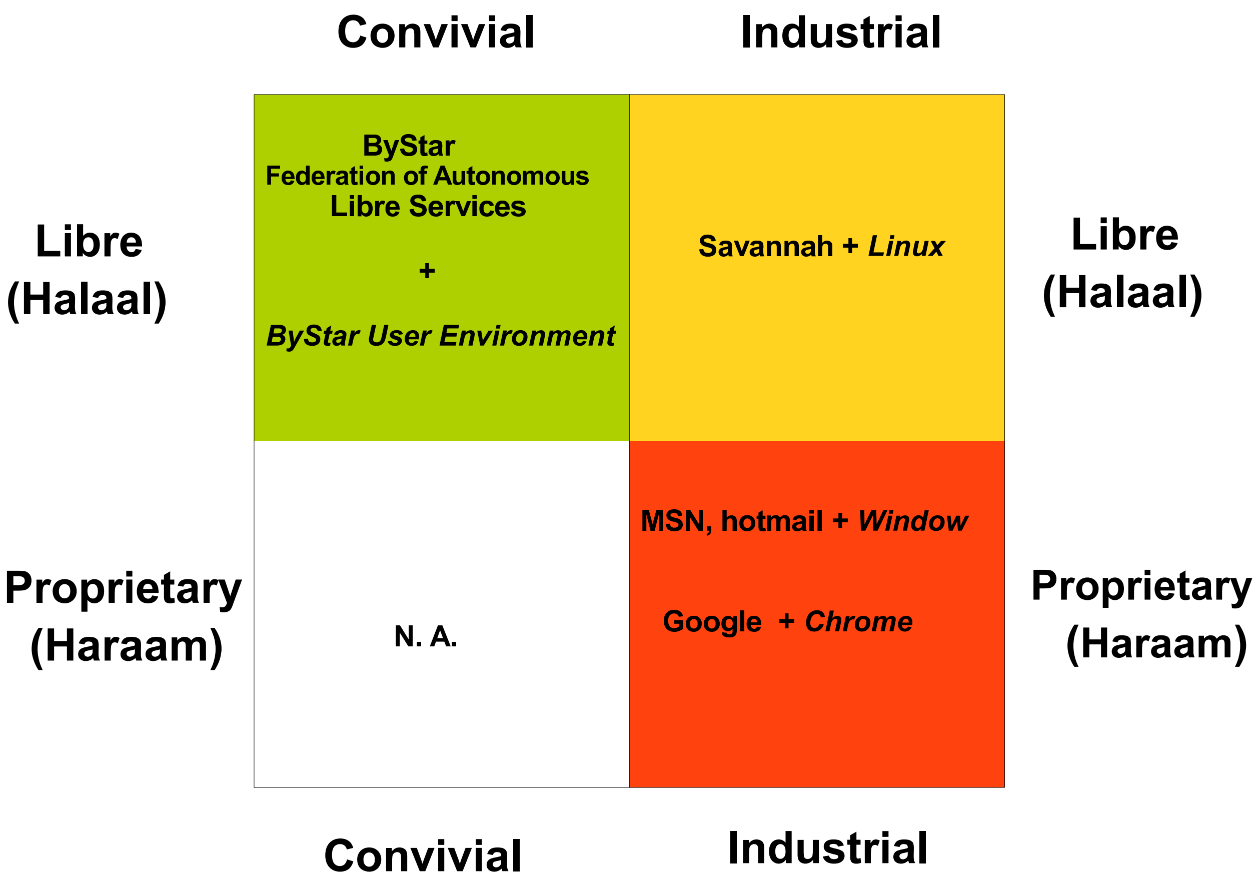


Figure 5: Halaal and Convivial Software Quadrant

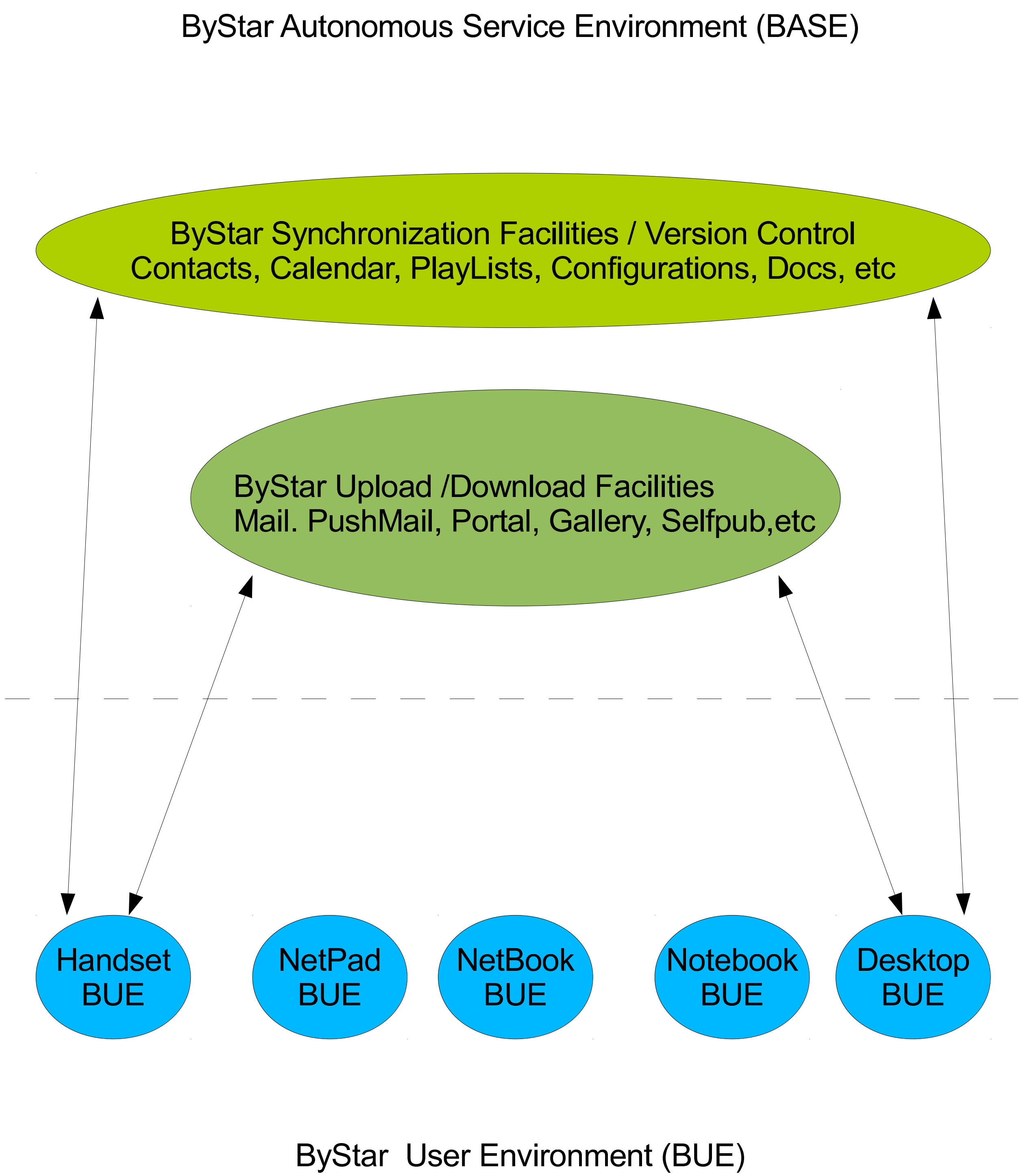


Figure 6: Interface Model of ByStar User Env and ByStar Services

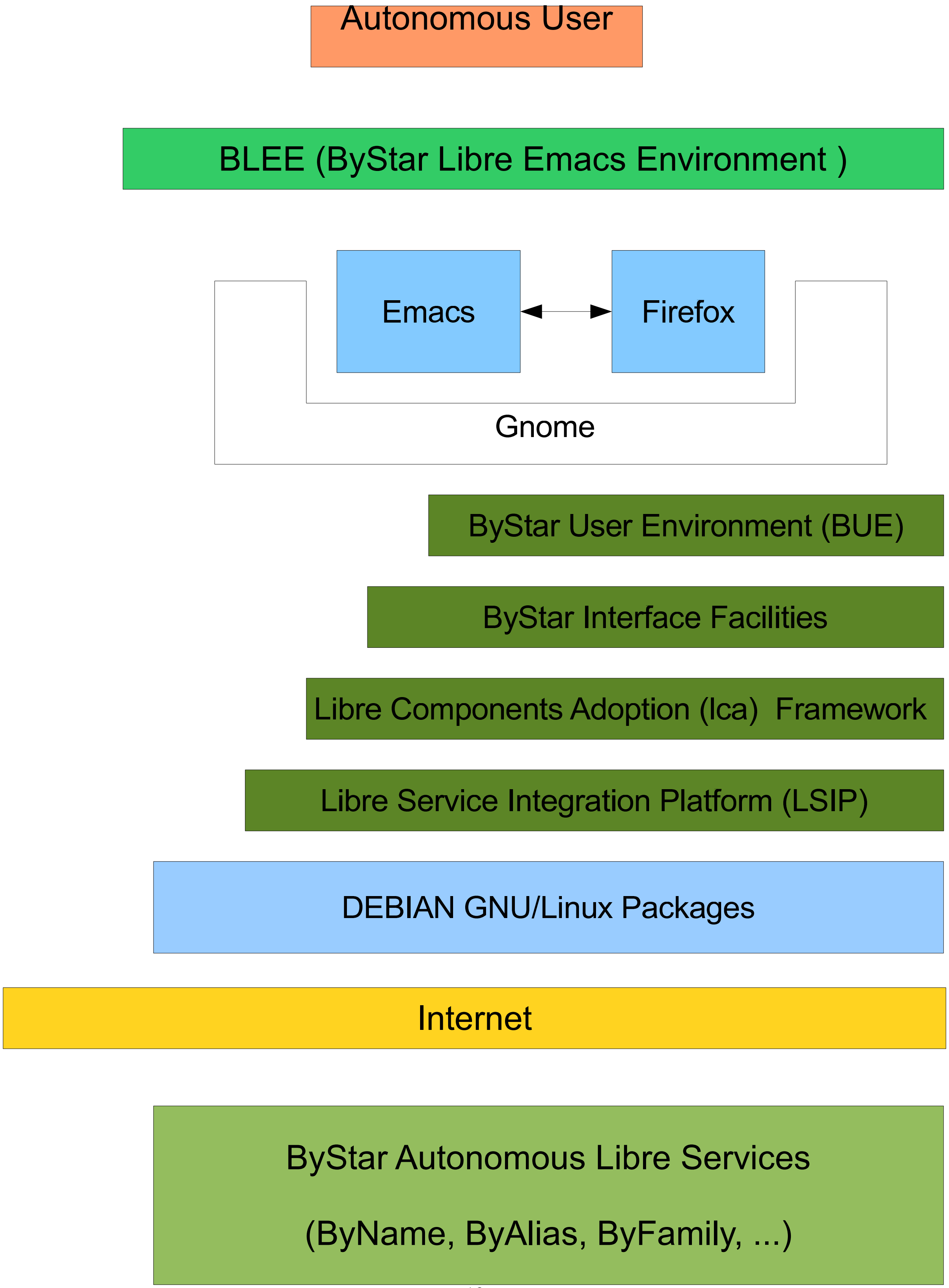




Figure 7: ByStar Libre Emacs Environment (BLEE) Model

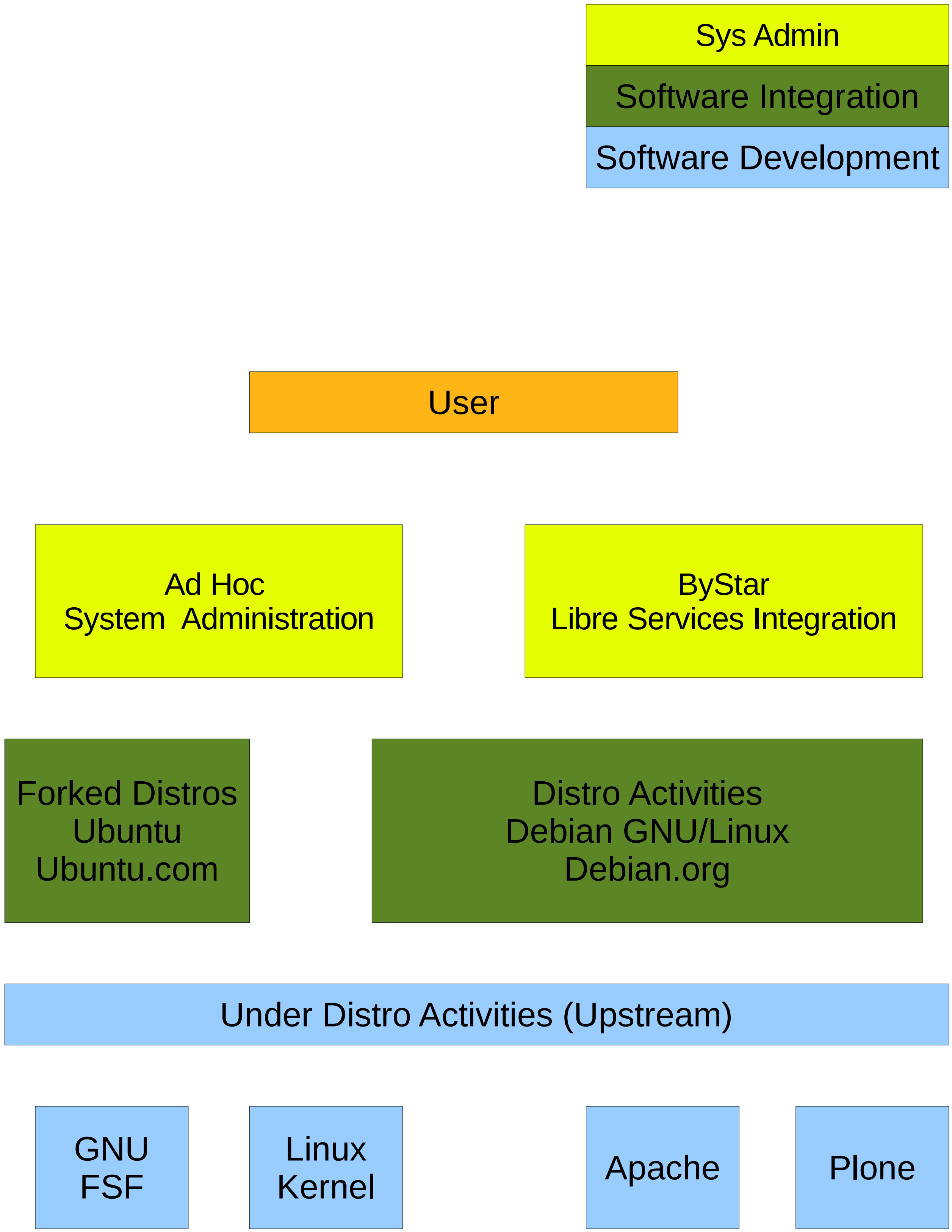


Figure 8: General Nature of Under, At and Above Distro Activities

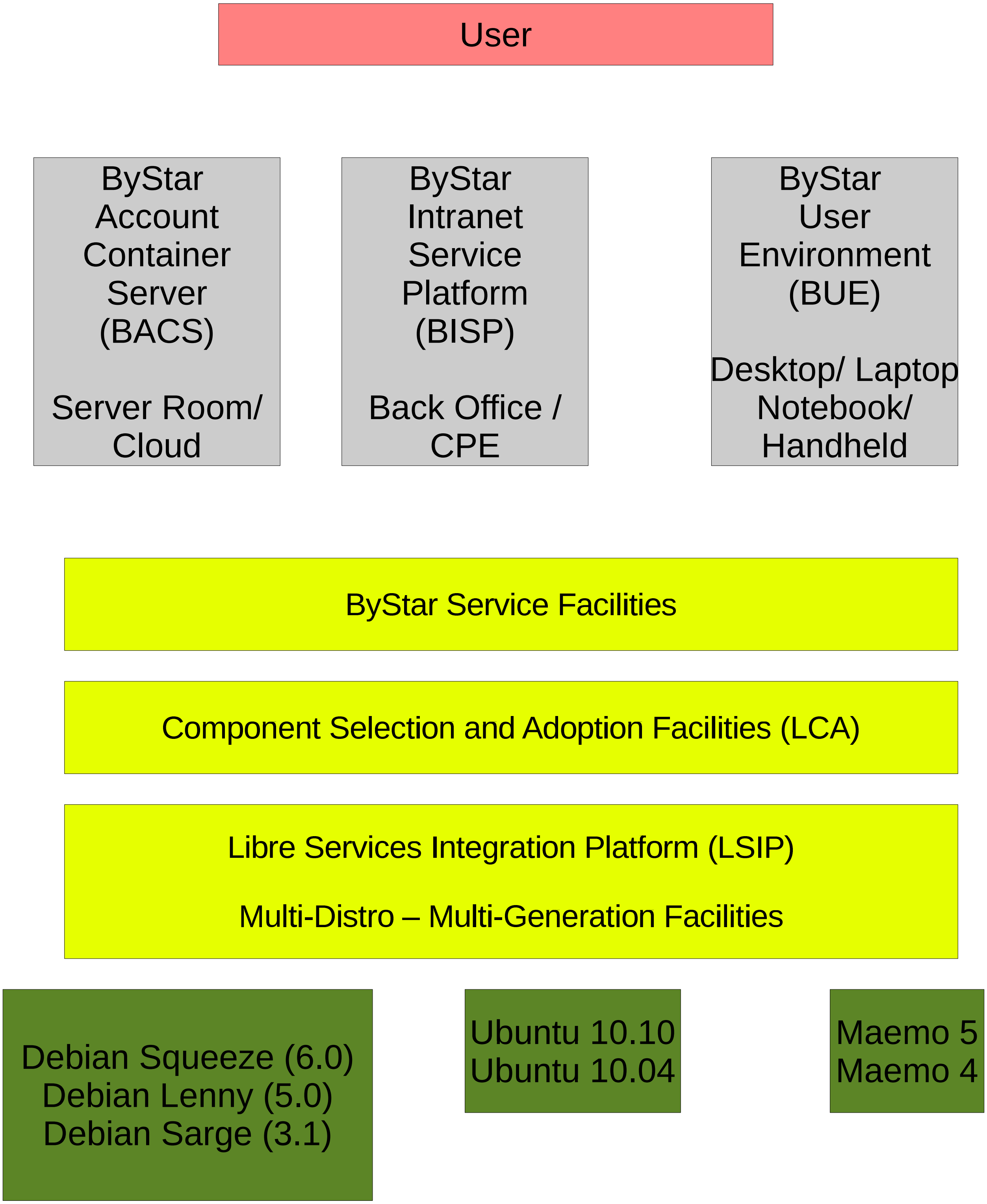


Figure 9: The ByStar Over Distro Development Model

Autonomous First

Convivial Design

# Part IV
# ByStar Vertical Slices (Feature Families)

## 11 ByStar Vertical Slices

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

### 11.1 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

## 12 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.

# 13 CMS / Plone Vertical Slice

- ploneProc.sh

# 14 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

## 14.1 ByStar Content Publication Model

## 14.2 ByStar Content Publication Workflow

## 14.3 ByStar Content Publication Architecture

# 15 Auxiliary Vertical Slices

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

## 15.1 ByStar Music Vertical Slice

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

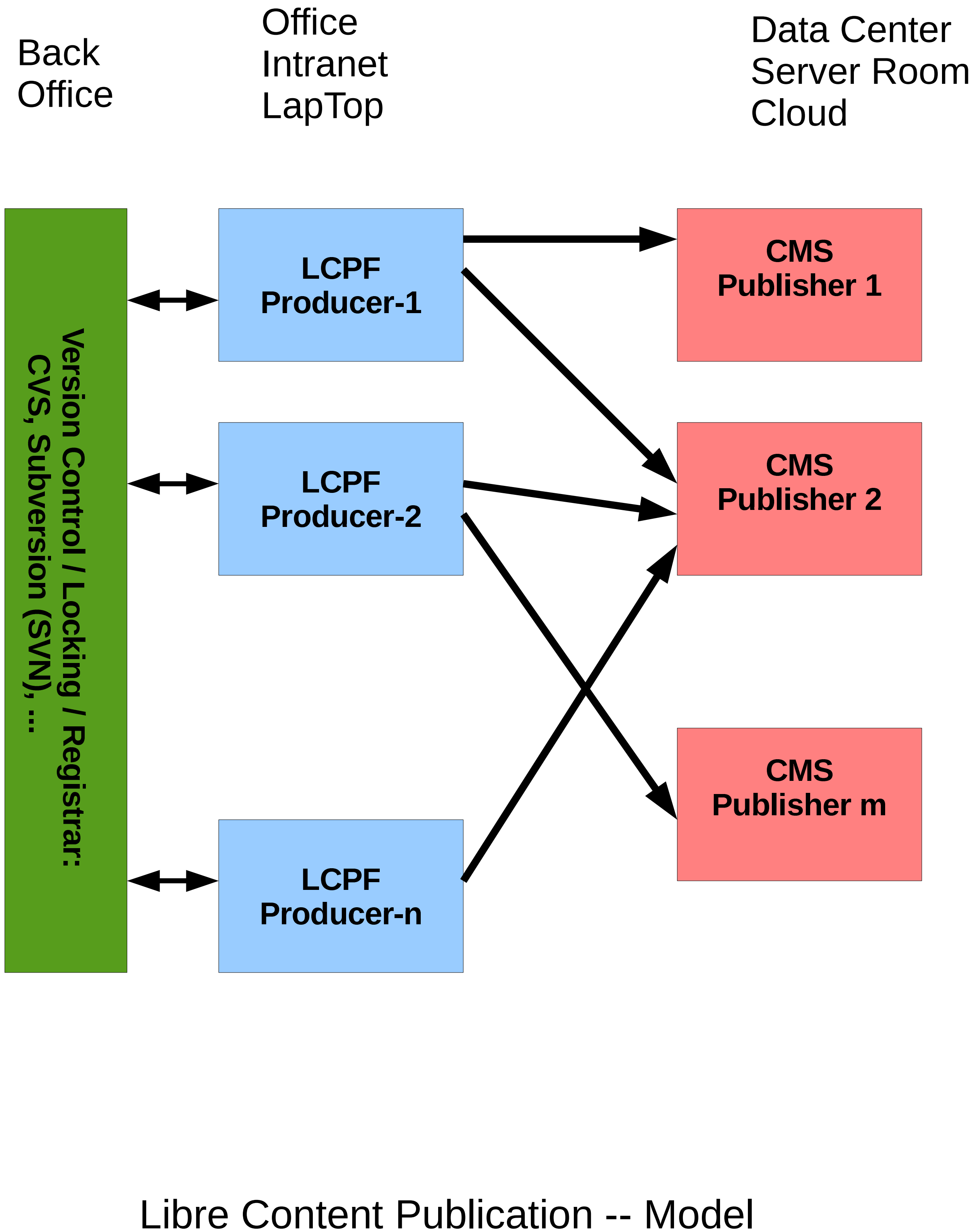


Figure 10: ByStar Content Publication Model

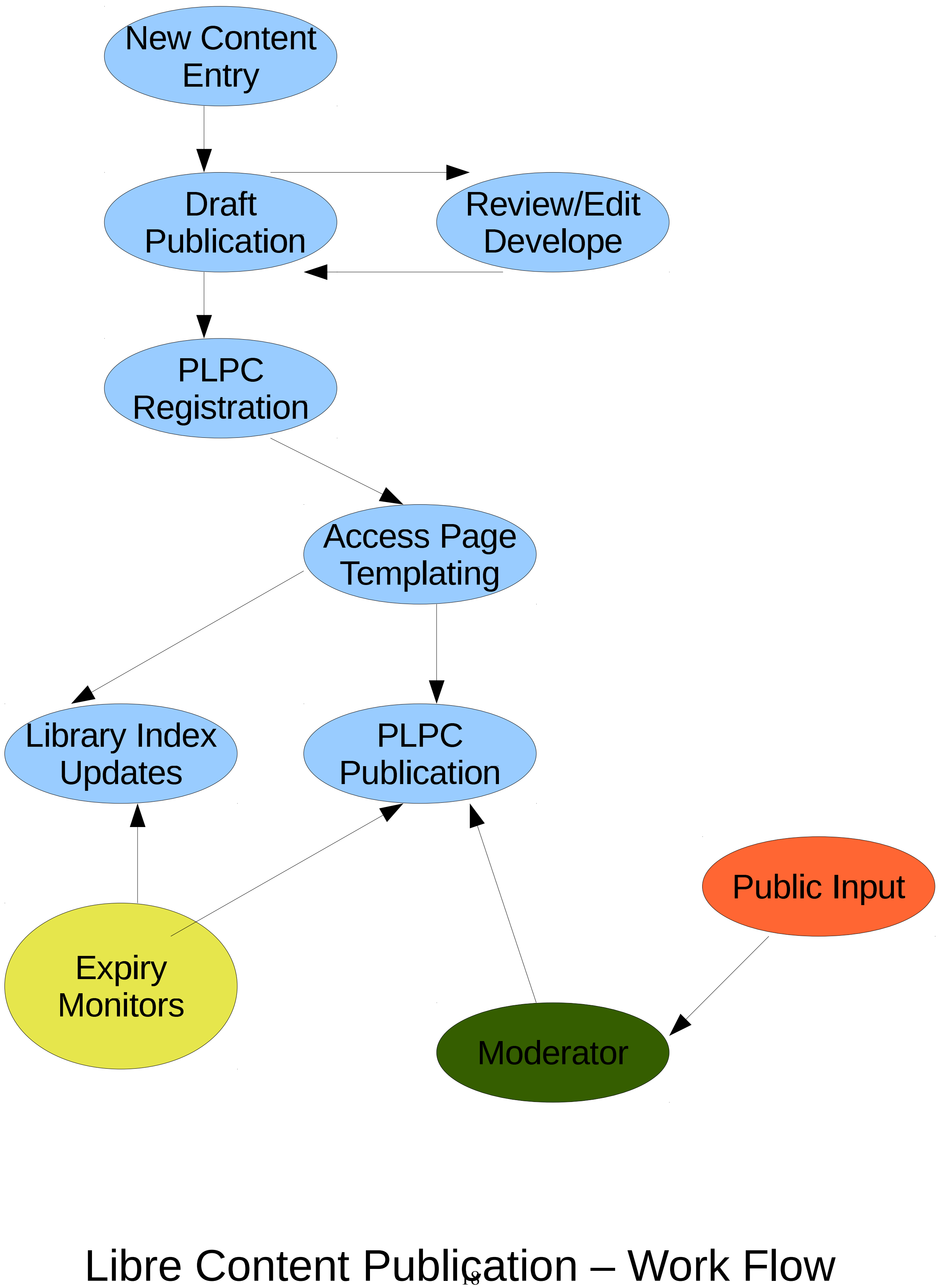


Figure 11: ByStar Content Publication Workflow

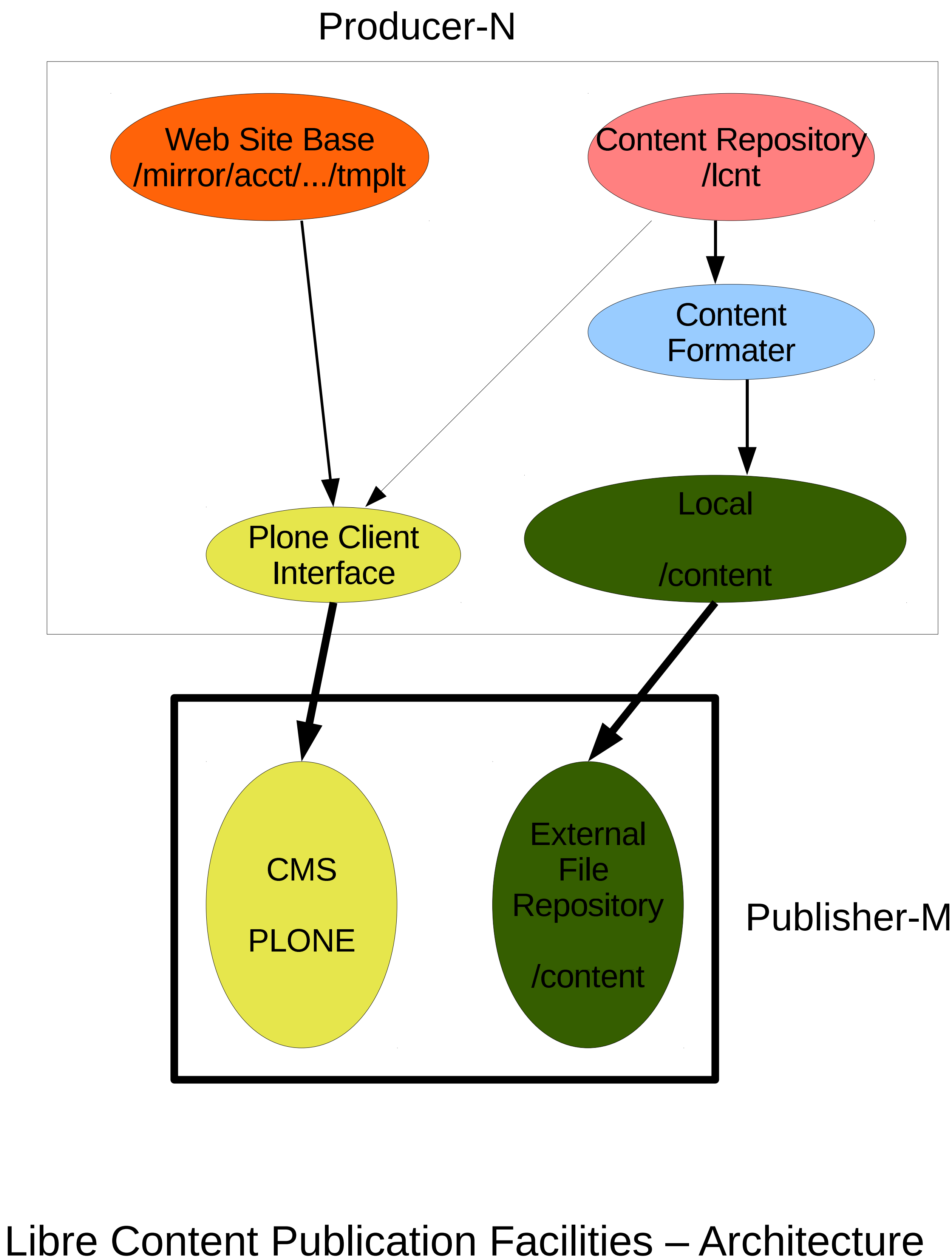


Figure 12: ByStar Content Publication Architecture

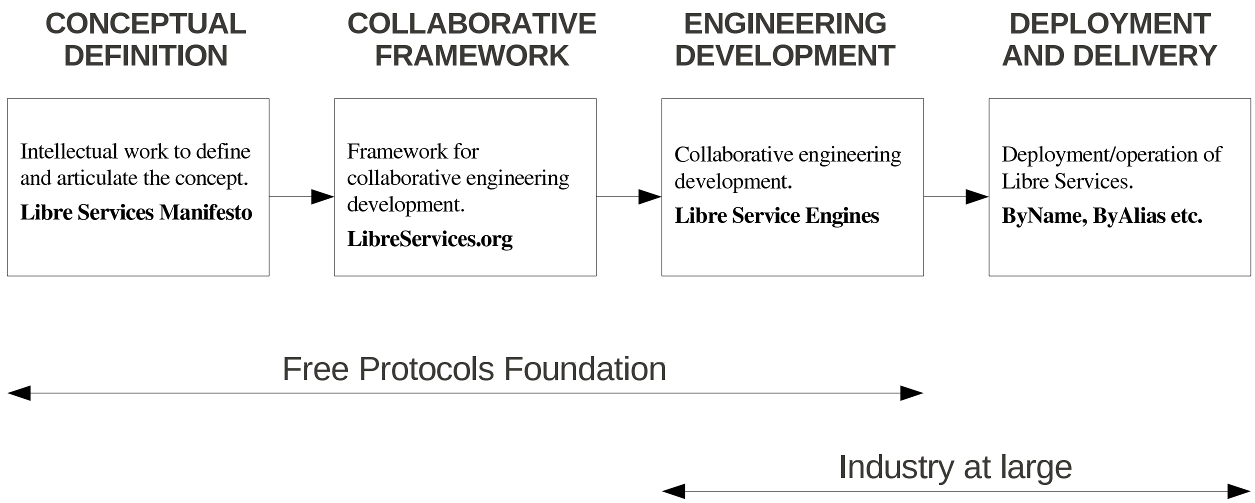


Figure 13: The Collaborative Model From Concept To Service Delivery

# Part V

# Framework For Participation, Collaboration and Guardianship

## 16 Collaborative Development Framework

- Working Together ...

## 17 The Collaborative Model From Concept To Service Delivery

### 17.1 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

### 17.2 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

This document was produced with Halaal Software and is published using 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