

# ByStar Autonomous Content Collaborative-Authorship, Generation, Publication, and Distribution Software And Services

Document #PLPC-180038

Version 0.3

January 10, 2018

This Document is Available on-line at:  
<http://www.by-star.net/PLPC/180038>

Neda Communications, Inc.

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## Part I

# About This Document

## 1 About This Document (Presentation/Podcast)

This document is available in multiple forms and multiple formats:

- **Article/Book Form:** Best suited for cover-to-cover reading (pdf).
  - **Pdf Format:** Best suited for printing and cover-to-cover reading.
  - **HTML/Web Format:** Best suited for Web reading and cross referencing.
- **Presentation Form:** Best suited for quick scan – with live URLs –(pdf).
  - **Screencast:** A slide oriented voice-over narrated presentation (Reveal.js Based)
  - **PDF Slides:** Best suited for printing of the slides (Beamer Generated)
  - **HTML Slides And Notes:** Slide and notes in html format (Beamer+HaVeA Generated)
  - **PDF Slides and Notes:** Best suited for printing of presentation notes (Beamer Generated)

You can obtain this document in all these formats at its access page: <http://bystar.de/PLPC/180xxx>

We can benefit from your feedback. Please let us know your thoughts. You can send us your comments, corrections and criticisms to <mailto:feedback@bystar.de>

## 2 Part Of Libre-Halaal ByStar Digital Ecosystem and BISOS

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This topic is Part Of A Much Bigger Picture:

The Libre-Halaal ByStar (By\*) Digital Ecosystem A Moral Alterantive To The Proprietary American Digital Ecosystem

- Overview Of ByStar: <http://www.by-star.net/PLPC/180054>
- ByStar Internet Services OS (BISOS): <http://www.by-star.net/PLPC/180047>
- Interactive Commands Module (ICM): <http://www.by-star.net/PLPC/180050>

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Notes:

## Part II

# Overview

### 3 Scope And Contours Of This Document

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- Our Full Scope
  - Collaborative And Iterative
  - Purely Libre-Halaal – Theoretically Reproducible In Its Entirety – Part Of BISOS and ByStar
  - Conviviality Of These Tools
  - Selection Of Best Of Breed Components – Rich Integration Frameworks For Authorship And Processing
- 

Notes:

#### 3.1 A Complete Multi-Media Content Authorship, Generation, Publication and Distribution Framework

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##### A Complete Multi-Media Framework

*Content Authorship, Generation, Publication and Distribution*

##### Content Production

- Content Authorship
- Content Generation
- Content Disposition

##### Content Exposition

- Content Publication – Autonomous and Federated Publication
  - Content Distribution/Promotion
- 

Notes:

#### 3.2 Pointers To Related Topics And Documents

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ByStar Autonomous Content Production And Administration Examples A How To Guide For Creating And Publishing Multi-Media Content <http://www.by-star.net/PLPC/180060>

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Notes:

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**ByStar Autonomous Content Collaborative-Authorship, Generation, Publication, and Distribution Software And Services** <http://www.by-star.net/PLPC/180038>

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Notes:

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**The Libre-Halaal ByStar Digital Ecosystem A Unified and Non-Proprietary Model For Autonomous Internet Services A Moral Alterantive To The Proprietary American Digital Ecosystem** <http://www.by-star.net/PLPC/180016>

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Notes:

## **4 Obtaining The Sources Of This Document – Obtaing BISOS And Related Components**

### **4.1 Obtaining Source Of This Document – Pointers To Git Repos**

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<https://github.com/mohsenBanan>

<https://github.com/bxlcnt>

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Notes:

### **4.2 Obtaining BISOS And Related Components**

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Obtaining BISOS: <http://www.by-star.net/PLPC/180047>

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Notes:

## **5 Abstraction Of Input Forms And output Formats**

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- Multi-Media Content Authorship – Integration Of Multi-Lingual Text + Images + Audio + Video



- Content Inputs: Single Source XeLaTeX Inputs
  - Content Generation Machinery: XeLaTeX (pdf) – HaVeA (html)
  - Content Outputs: Pdf, Html5, JavaScript
- 

Notes:

## 5.1 Input Forms And output Formats

---

- Abstract Article Format Memos, Emails, Articles, Books
- Abstract Presentation Format Slide oriented text and images
- Abstract Narration Format Podcasts – Abstract Presentation + Voice-Over + Videos

Simultaneous And Conditional Support For Multiple Abstract Forms (article-mode, presentation-mode)

Explicit inputs selection for multiple outputs (latexonly, htmlonly, rawhtml)

---

Notes:

## 5.2 Abstract Article Form

---

### Abstract Article Format

*Continuous Pagination: Text+Images*

- End Result Abstraction:
    - Flow: Linear Continuous Pages
    - Content Types: Text + Images
  - Common Uses: Memos, Emails, Articles, Books
  - Features: Table Of Contents, Cross References, Bibliography, Index
  - Concrete Output Formats: Pdf, Html
- 

Notes:

## 5.3 Abstract Presentation Form

---

## Abstract Presentation Form

*Paginated: Text+Images*

- End Result Abstraction:
    - Flow: Linear Continuous Pages
    - Content Types: Text + Images
  - Common Uses: Memos, Emails, Articles, Books
  - Features: Table Of Contents, Cross References, Bibliography, Index
  - Concrete Output Formats: Pdf, Html
- 

Notes:

## 5.4 Abstract Narration Form

---

### Abstract Narration Form

*Paginated: Text+Images*

- End Result Abstraction:
    - Flow: Linear Continuous Pages
    - Content Types: Text + Images
  - Common Uses: Memos, Emails, Articles, Books
  - Features: Table Of Contents, Cross References, Bibliography, Index
  - Concrete Output Formats: Pdf, Html
- 

Notes:

## 5.5 Concrete Output Formats

---

Primary Output Formats:

- - Pdf
- - Html
- - Html+Js

- - Video – Screen capture of Narration

Supported Convertible Output Formats:

- - Markdown
- - MS-Word

Notes:

## 5.6 Unified Source – Combinations Of Abstract Forms And Concrete Outputs

### Unified Source Controlling All Results

*Combinations Of Abstract Formats And Concrete OutputsPaginated: Text+Images*

Combinations, Selections And Control Of Language, Abstract Form And Concrete Output Formats

- Abstract Multilingualization Selections

**Lr:** Left-To-Right – Pure Globish/English (Deprecated) – articleEn.ttytex, presentationEn.ttytex

**Lr+Bidi:** Left-To-Right – Globish/English+bidi – articleEnFa.ttytex, presentationEnFa.ttytex

**Rl+Bidi:** Right-To-Left – Farsi+bidi – articleFaEn.ttytex, presentationFaEn.ttytex

- 

- Abstract Form Selections (Left-To-Right (EnFa))

**article:** articleEnfa.ttytex + bodyArticleEnFa.tex

**presentation:** presentationEnfa.ttytex + bodyPresentationEnFa.tex

**presentation + article:** presentationEnfa.ttytex + articleEnFa.ttytex + presArtEnFa.ttytex + bodyPresArtEnFa.ttytex + bodyArticleEnFa.ttytex – For a pure single source setup, bodyArticleEnFa.ttytex can be a symlink to bodyPresArtEnFa.ttytex

- Single Source Abstract Form And Concrete Output Formats Control

**Abstract Form Controls:** article-mode presentation-mode

**Concrete Formats Only** latex-only html-only raw-html

Notes:

## 6 Graphical Representation Of Components, Relationships And Processes

### 6.1 Graphical Overview Of ByStar Multi-Media Document Publication

---

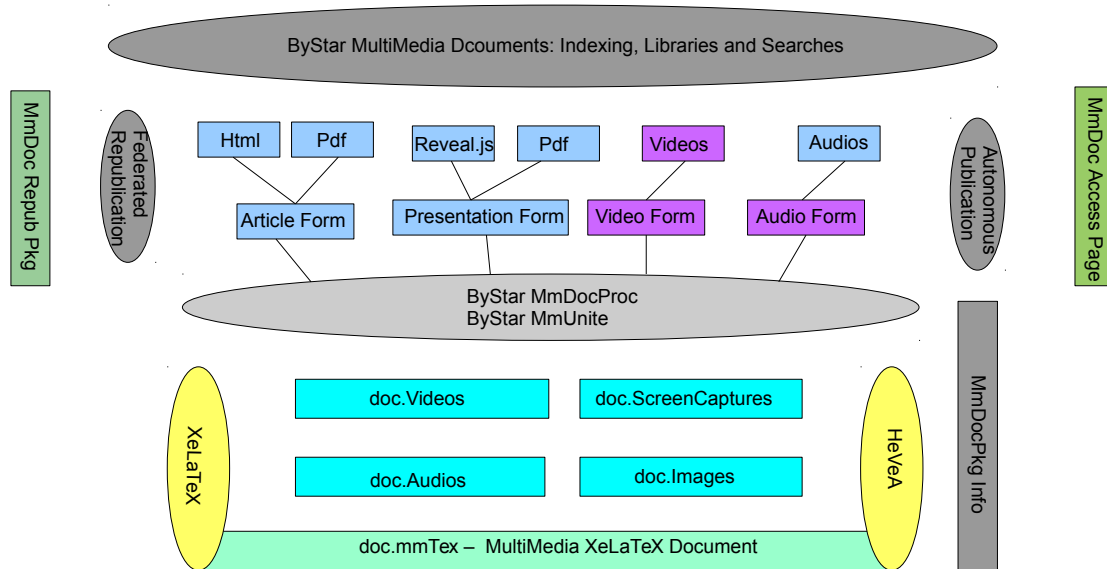


Figure 1: ByStar Multimedia Document Publication And Distribution

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Notes:

### 6.2 Graphical Overview Of ByStar Multi-Media Document Production – Authorship And Generation

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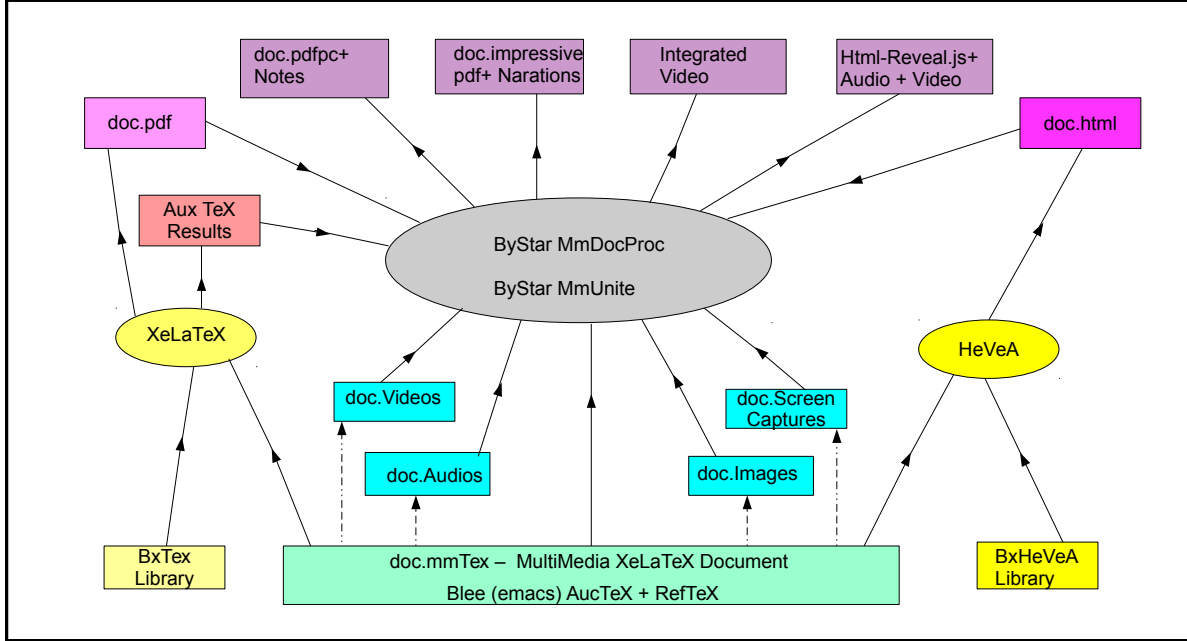


Figure 2: ByStar Multimedia Document Authorship And Generation

Notes:

## 7 Integration of Selected Existing Packages – And Advent Of A Few Novel Features

### Integration of Existing Features – And Advent Of A Few Novel Features

#### *Types Of End Results*

- Integration of Selected Existing Packages
- Advent Of A Few Novel Features
  - Integration Of Beamer with HeVeA And reveal.js
  - Voice Over Beamer Frame Cross Referencing
  - Single Source Tagging With Dblocks
  - Abstract CMS and Plone Integration Realization

Notes:

## 7.1 Integration of Selected Existing Packages

### 7.1.1 Selected Packages

---

- Emacs Packages – RefTeX org-mode,
  - TeX Packages: XeLaTeX, Beamer, bidi
  - Disposition Tools: pdfpc, impressive
  - HeVeA: LaTeX to HTML converter
  - Web Tools: reveal.js
  - I18N: bidi, persian
- 

Notes:

### 7.1.2 Integration Languages And Frameworks

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- TeX: XeLaTeX, HaVeA, Beamer, bibtex, bidi
  - elisp: AucTeX, RefTeX, org-mode, dblock, yasnippet, input-method, COMEEGA
  - Java-Script: node-modules, reveal.js, audio-reveal, video.js, video-resolutions
  - Python: plone, impressive, bisos.lcnt,
  - Bash: bisos.lcnt
  - Generic Pkgs: screenstudio (obsoleted), gimp, audiorecorder, obs-studio (Screen Capture)
- 

Notes:

## 7.2 Advent Of A Few Novel Features

### 7.2.1 Integration Of Beamer With HeVeA And Revel.js

---

- HeVeA TeX Packages
- 

Notes:

## 7.2.2 Driving Reveal.js With Beamer LaTeX-HeVeA

---

- About Reveal.js
  - HeVeA extension for Reveal.js
- 

Notes:

## 7.2.3 Voice-Over Beamer Frame-Name Cross Referencing

---

- Impressive processors
- 

Notes:

## 7.2.4 Integration Of Beamer With HeVeA And Reveal.js

---

- HeVeA TeX Packages
- 

Notes:

## 7.2.5 Integration Of Beamer With HeVeA And Reveal.js

---

- HeVeA TeX Packages
- 

Notes:

## Part III

# Resulting Contents – Some Examples

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- Abstract Article Form – Example Of A Large Book
  - Abstract Presentation Form – Example Of Course Work For A Class
  - Abstract Narration Form – Example Of A Complete Pod Cast
  - Multilingual Abstract Article Form – ماهیت چند وجودی‌ها
  - Topic Xrefs And Libraries
- 

Notes: Frame Notes

## 8 Example Of A Large Book – Nature Of Poly-Existentials

---

### Example Of A Large Book

*Nature Of Poly-Existentials Basis For Abolishment Of IPR Regime*

Abstract Article Form Features: Multilingual Text, Images, Equations, Table-Of-Contents, Indices, Bibliography Out-

put Formats: Pdf, Html, Access Page

**The Nature of Poly-Existentials: Basis for Abolishment of The Western So-Called Intellectual Property Rights Regime** <http://mohsen.banan.1.byname.net/PLPC/120033>

---

Notes:

## 9 Example Of A Multi-Media Podcast – ByStar Overview

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## Example Of A Multi-Media Podcast

*ByStar Overview*

Abstract Presentation Form Features: Audio, Video Output Formats: JS-Html, Access Page

An Overview Of The Libre-Halaal ByStar Digital Ecosystem With Pointers For Digging Deeper  
<http://www.by-star.net/PLPC/180054>

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Notes:

## 10 Example Of Course Work Lectures – Managing Messaging Systems

---

### Example Of Course Work Lectures

*Managing Messaging Systems*

Abstract Article Form Features: Multilingual Text, Images, Equations, Table-Of-Contents, Indices, Bibliography,

Output Formats: Pdf, Html, Access Page

<http://mohsen.banan.1.byname.net/teaching/bc-isit442>

---

Notes:

## 11 Example Of A Multi-Lingual Article – ██████████ ██████████ ██████████

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### Example Of A Multi-Lingual Article

*ماهیت چند وجودی‌ها*

Abstract Article Form Features: Multilingual Text, Images, Equations, Table-Of-Contents, Indices, Bibliography,

Output Formats: Pdf, Html, Access Page

The Nature of Poly-Existentials: Basis for Abolishment of The Western So-Called Intellectual Property Rights Regime <http://mohsen.banan.1.byname.net/PLPC/120033> – [1]

---

Notes:

## 12 Example Of Topic Groupings, Crossreferencing And Libraries – ByStar Publications

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Example Of Topic Groupings, Crossreferencing And Libraries

*ByStar Publications*

<http://www.by-star.net/bxPublications>

---

Notes:

## Part IV

# Selected Multi-Media Content Creation Facilities

## 13 Multi-Media Facilities

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Multi-Media Content Authorship – Integration Of Multi-Lingual Text + Images + Audio + Video

- Multi-Lingual Text: – Blee (emacs) AucTeX, RefTeX, YASnippet, Org-Mode, etc.
  - OMEEGA: Org-Mode Enhanced Emacs Generalized Authorship Framework
  - Images: LibreOffice Draw, Gimp
  - Audio:
  - Screen Captures: screenstudio
  - Video: Cinerela
  - Multi-Media Integration:
- 

Notes:

Part V

## Content Authorship Integration Framework

Part VI

## Selected Content Processing Facilities

## Part VII

# Content Processing Integration Framework

### 13.1 Overview ByStar LCNT and Blee Environment

---

- lcnLcntGens.sh, lcnLcntSelect.sh,
  - lcntProc.sh, mmUnit.sh, LCNT-Panels
- 

Notes:

## Part VIII

# Metadata Processing, AccessPage And Topic Orchestration

## 14 LCNT And Library Overview

---

The Library is intended as a general repository for all content that the user wishes to place there. This is not just documents, software etc. that the user wishes to publish, but also non-published content that the user wishes to put in the library for his own convenience. For example, the user can place here his entire music list, or video list, and create music playlists etc. This is not published content, indeed publication may be prohibited by copyright, but still the user can place this here for his own usage.

A further intended future functionality: each access page will have a place for others to put comments, who are authorized by the site owner to make comments.

---

Notes: Frame Notes

---

A particular item of content (e.g. a document) is the atomic component for management by the Libre Self-Publication facility.

An item of content is assigned a number of attributes, and this is what leads to it appearing in the various indexes. Relevant attributes are:

- The primary publication site
- Sites for duplicate publication
- Author(s)

The primary publication site is the site where the content originates in the form of Libre Self-Publication content, and is maintained.

---

Notes: Frame Notes

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- url: The primary publication site.
  - pubDestUrls: The list of sites where the document is to be published. This will normally include the primary publication site, and may also include other mirror sites.
- 

Notes: Frame Notes

## 15 ByStar Content Classifications And Groupings

---

- Library
  - Publications List
  - Bibliography
- 

Notes:

## 16 Library

---

The Library and Publications lists serve different purposes.

The Library is about content published or otherwise resident at this site. This may consist of:

- Non-published content (e.g. music collection)
- Content for which this is the primary publication site
- Content for which this is a duplicate publication site

Library content = Published content + non-published content  
Published content = content as primary publication site + content as duplicate publication site  
Content as primary publication site = original content (created and owned by site owner) + republished content

---

Notes: Frame Notes

---

Content residing in the Library is pushed here by the Libre Self-Publication machinery. It is the publication attributes of the content that determine whether it appears in the Library indexes. Any content for which this is the primary publication site appears in the Site Index. Any content for which this is either the primary publication site or a duplicate site appears in the Full Index.

The Library is all machine generated, and is not intended for customization.

---

Notes: Frame Notes

## 17 Publications Indexes

---

In contrast to the Library, Publications are about authorship. It is the author attributes of the content that determine whether the content appears in the Publications indexes. The Publications indexes are fully customizable to suit the



preferences of the user. The Publications indexes are lists, not necessarily representing content residing at this site, and are created by searching for content with the site owner as an author.

The search takes place over the entire /lcnt tree maintained by that author. This /lcnt tree will in general include all organizations and venues (e.g. himself, Neda, FPF etc.) under which the author publishes content.

---

Notes: Frame Notes

---

The user can choose to have content listed or not listed among the publications:

- The user can choose to have content not listed as a publication, e.g. personal travelogues
- The user can assign an importance level to content, and have the content appear or not based on an importance threshold
- The user can add pointers to journal papers that are not under Libre Self-Publication Management

Thus the Full Index appearing under Library and the one appearing under Publications are not the same thing.

The top-level Publications page is by default the same at the Full Index.

By Importance. Content can be assigned an importance value, to determine whether it gets listed here or not.

---

Notes: Frame Notes

## 18 Bibliographies

---

The bibliographies provide the same information as the corresponding index, but in a bibliographic format rather than a tabular form, and including the description as an abstract.

---

Notes: Frame Notes

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- Authorship:: Write A Document (Text and Images)
- Authorship::Augment the document with Multi-Media Content – Audio and Video
- Generation:: Process inputs to Create Relevant Outputs – Js, Html, PDF, Video
- Publish:: Publish, Index and Xref in Libraries, Categorize, Republish
- Mailings:: Announce and Subject The Document To Mailings
- Distribution:: Use Distributions For Continous Mailings
- Collaboration:: Evolve The Document

---

Notes: Frame Notes

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- obs-studio is ByStar's main
  - `dpkg -i obs-websocket_4.3.1-1_amd64.deb` – WebSocket Server
  - <http://t2t2.github.io/obs-tablet-remote/> – NodeJs WebSocket Client
  - PyPi Interface – <https://github.com/KirillMysnik/obs-ws-rc/blob/master/examples/2>.
  - obs remote on Android
  - Update `beamerExternalExtensions.py` for obs-studio similar to `screenstudio`
- 

Notes:

## Part IX

# Iterative Content Disposition, Narration And Recording

## 19 Overview Of ByStar Multi-Media Content Disposition

---

Multi-Media Content Authorship – Integration Of Multi-Lingual Text + Images + Audio + Video

- Reveal.js
  - impressive
  - Pdfpc
- 

Notes:

## 20 Multi-Media Frame Types

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- Silent MM-Frames
  - Narrated MM-Frames
  - Videoed-Enhanced MM-Frames – Recording Of narrated MM-Frame with impressive
  - LiveSession Captured MM-Frames – Screen Capture With obs-studio
  - General-Container MM-Frames – Can contain anything from anywhere
- 

Notes:

## Part X

# Content Autonomous Publication And Federated Re-Publication

## 21 Publishing The Document

---

- In Panel.org – Run `lcntProc.sh -i mmUniteStart`
  - Go to mmUnite Panel
  - From `./MmUnitePanel.org` –
- 

Notes: Frame Notes

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- In Panel.org – Run `lcntProc.sh -i mmUniteStart`
  - Go to mmUnite Panel
  - From `./MmUnitePanel.org` –
- 

Notes: Frame Notes

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## 22 ByStar Content Publication Facilities And Processes

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- Abstarcted Autonomous CMS
  - Autonomous Content Management System – Plone 3.3
  - Remote Access To Plone-CMS – Reverse Engineered REST
  - Access Page Generators – Uploader
- 

Notes:

## 23 ByStar Autonomous And Federated Content Publication

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- Autonomous Publication
  - Federated Re-Publication
- 

Notes:

## 24 Autonomous Publication And Re-Publication

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Republication can be thought of as the process of taking content that already exists outside the Libre Self-Publication framework, and bringing it into the Libre Self-Publication framework.

The pre-existing content may be Libre or non-Libre content. It may already exist in varying manners and degrees of publication, e.g. a leaked government document, or an academic thesis, or a journal paper under formal copyright. In terms of authorship it may have been authored by the site owner himself (e.g. academic thesis, journal paper), or it may have been authored by others (e.g. leaked government document).

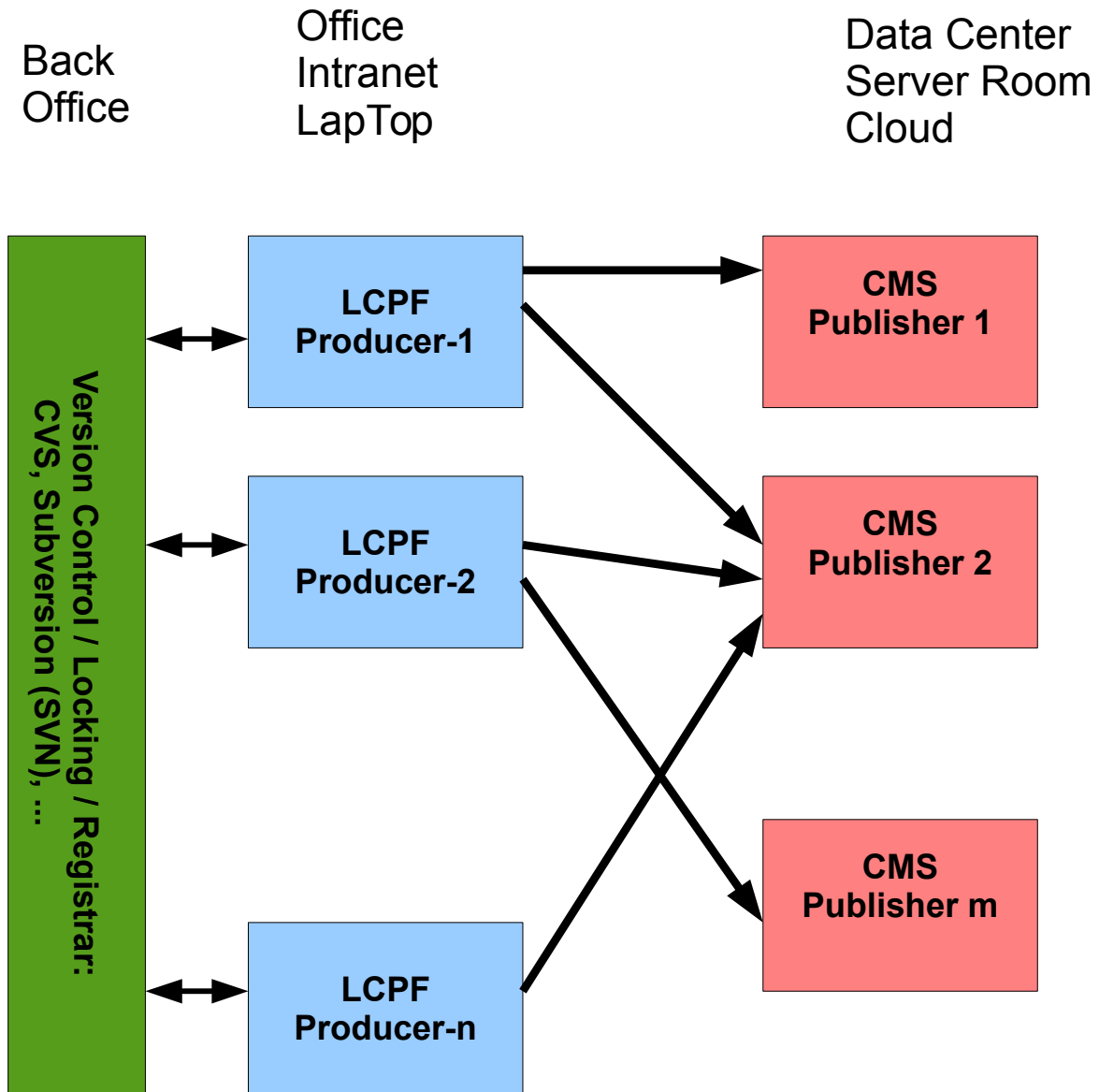
But the key concept of republication is that this is content that has already been created and exists in some manner, that is now being brought under Libre Self-Publication management.

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Notes: Frame Notes

### 24.1 Content Publication Model

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## Libre Content Publication -- Model

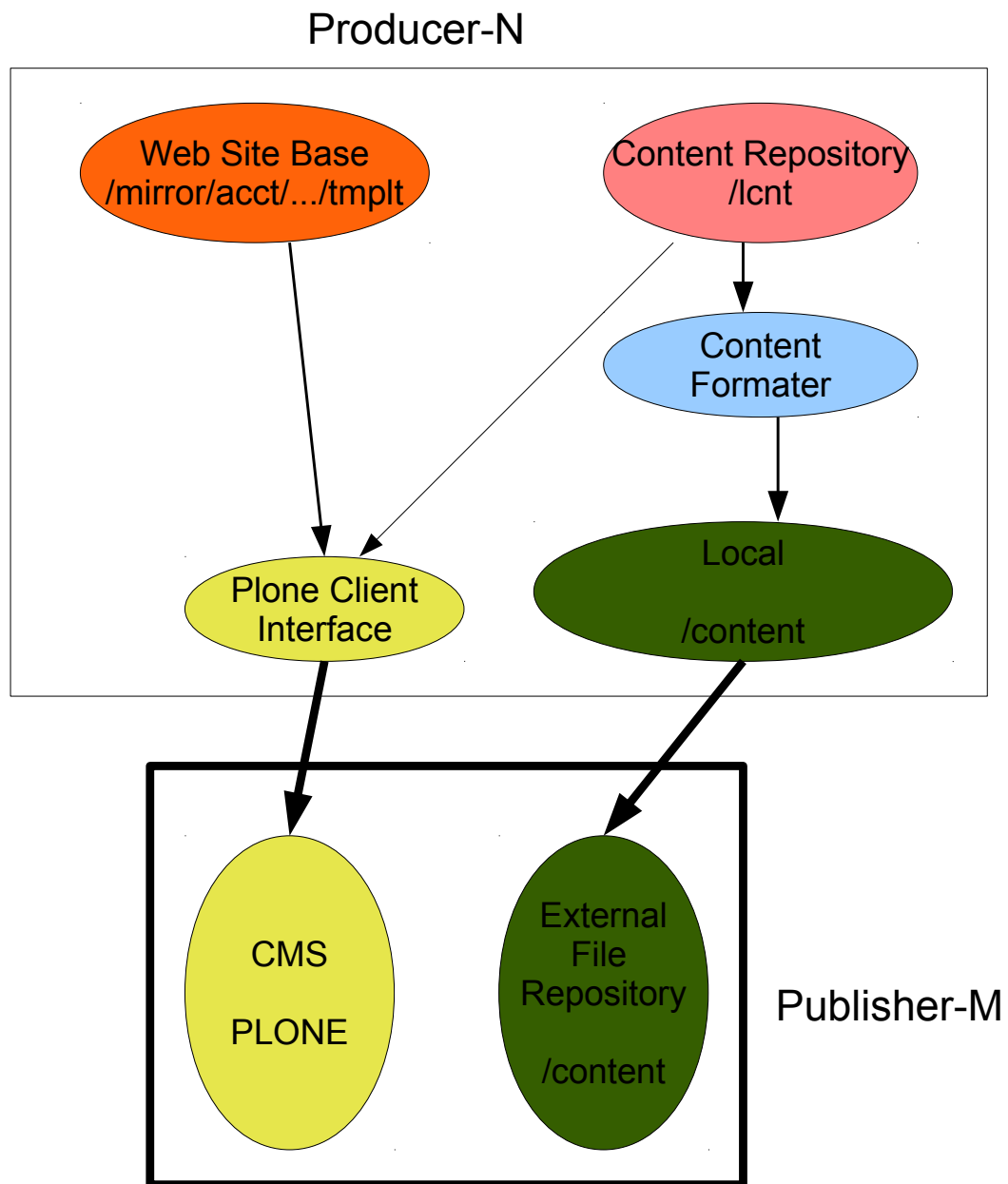
Figure 3: Libre-Halaal Content Publication Facilities Model

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Notes: Frame Notes

## **24.2 Content Publication Producers and Publications Model**

---



## Libre Content Publication Facilities – Architecture

Figure 4: Libre Content Publication Facilities Architecture



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Notes: Frame Notes

### 24.3 ByStar Federated Duplication

---

Each item of content has a primary publication site, which is where it originates in the form of Libre Self-Publication content. An item of content may also have one or more duplicate sites, where it is also pushed for publication.

---

Notes: Frame Notes

### 24.4 Federated Content Publishers – ByTopic.org

---

Persons with maintenance authority over content specify duplicate sites by including them in the pubDestUrls file. The content is then pushed to the duplicate sites as well as the primary publication site.

Other persons and organizations can also duplicate the content on their own sites, but this is by a different mechanism. It is anticipated that any person or organization wishing to use the Libre Self-Publication framework will be assigned a block of PLPC (and Record, Draft and Repub) numbers by a numbering authority.

It is also anticipated that all content published under Libre Self-Publication will also be published at ByTopic.org. Then others wishing to duplicate that content on their own sites can do so by pulling it from ByTopic.org.

---

Notes: Frame Notes

## Part XI

# Content Distribution

## 25 ByStar Content Distribution Facilities And Processes

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- Using Content As Mailing
  - mailings
  - names
  - distributions
- 

Notes:

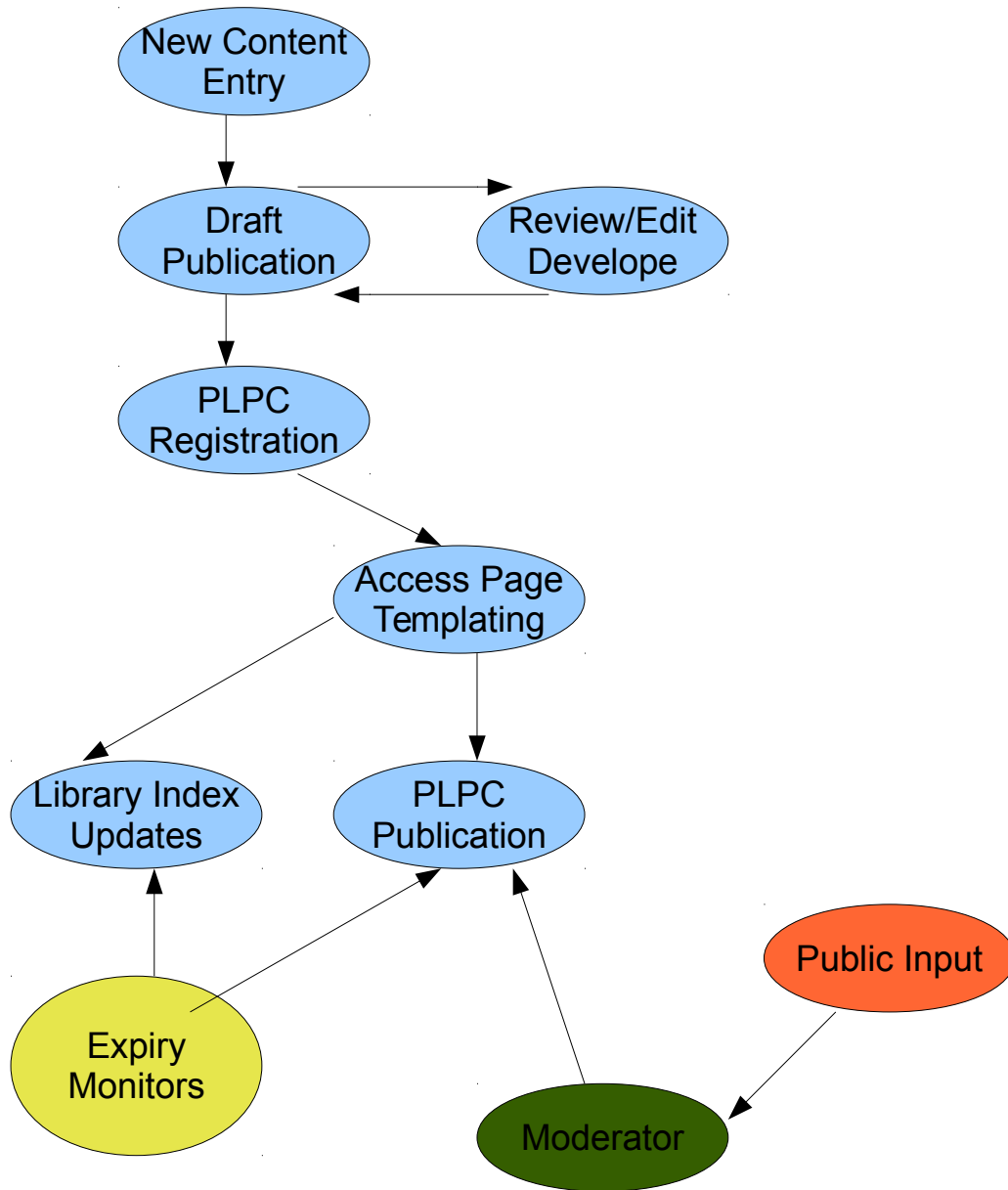
Part XII

## **Collaborative Workflow Orchestration – Full Cycle Feedback Loop**

26 Private/Public Comments/Inputs Gathering and Moderation

27 Workflow Overview

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## Libre Content Publication – Work Flow

Figure 5: Libre-Halaal Content Publication Facilities Workflow

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Notes:

## Part XIII

# Future

## 28 Impressive, Screenstudio, HaVeA, Reveal.js Requests

### 28.1 Impressive Requests

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- Command-Line options should over-write not the other way around
  - API should define global vars and advertised entry points for onLeave and onEnter
  - A network connection/Web-Svc from which to receive commands
- 

Notes: Frame Notes

### 28.2 Screenstudio Requests – now obsoleted by obs-studio

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- Web Interface not to be a toggle, but a start/stop interface
  - Web Interface port-num on command line not fixed to 8080
  - xml file pointer on command line
  - A traditional command line with man-page
  - Report config on Web-Interface
- 

Notes: Frame Notes

### 28.3 HeVeA Requests

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- XePersian farsi tags such as *قسمت*/
  - Capture ByStar Reveal related and other havea files
- 

Notes:

## References

- [1] "Mohsen BANAN". "the nature of poly-existentials: Basis for abolishment of the western intellectual property rights regime". Permanent Libre Published Content "120033", Autonomously Self-Published, "January" 2018. <http://mohsen.1.banan.byname.net/PLPC/120033>.