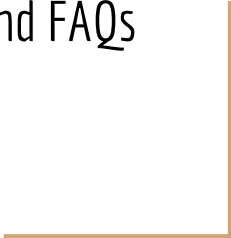


Implementing LCP in Reading Systems and Servers

Technical Requirements and FAQs



10 years

The European Digital Reading Lab (EDRLab)
was founded in 2015.

Based in France, Paris

> 110 members
from 36 countries

Publishers, Distributors, Libraries, Retailers, Developers

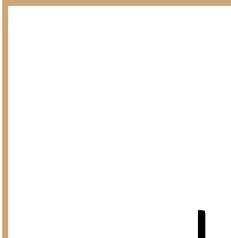
members.edrlab.org

Open Source and open standards

Collaborative projects, non partisan

Team of 10





LCP is Copy Protection

DRM



Requirements for the LCP DRM

- Manage constraints (time period, copy, print)
- Almost invisible for users
- Widely supported (interoperable)
- Non-proprietary and distributed
- Versatile (multiple formats)
- Non breaking for accessibility
- Not harmful for user privacy

LCP Principles

The retailer or library:

1. Installs an LCP Server
2. Encrypts a large set of publications (ebook, audiobook ...)
3. Recommends one or more LCP-compliant applications
4. Each user is given a “passphrase”
5. For each publication
 - a. The user gets a “license”,
 - b. He loads it in the application
 - c. He enters his “passphrase” (only once)
 - d. He reads the publication



LCP compared to
other DRMs



Ease of use?



Proprietary DRMs (Amazon, etc.)



Adobe DRM (Adobe account, Adobe Digital Edition, bugs, cryptic errors)



Radium LCP DRM (passphrase)

Multiple formats?



Proprietary DRMs (ebooks & audiobooks, download)



Adobe DRM (EPUB, PDF, download)



Radium LCP DRM (EPUB, PDF, Web Publications, comics, audiobooks, download & streaming. DAISY possible)

Accessibility?



Proprietary DRMs (it depends)



Adobe DRM (no evolution for years)



Radium LCP DRM (HTML5 is accessible to screen readers)

Accessibility?

What does it mean?

- Text is not rendered as image
- Audio rendering (TTS) is not blocked
- When the content is pre-processed for screen readers, every HTML5 detail is available to the tool:
 - Alternative text in images
 - Mathematical expressions in MathML
 - ARIA labels

International standard?



Proprietary DRMs



Adobe DRM



Readium LCP DRM : ISO_IEC_DIS-23078-2

Non-proprietary, Distributed?



Proprietary DRMs



Adobe DRM (Adobe account)



Readium LCP DRM

Business model?

Proprietary DRMs (not sold)

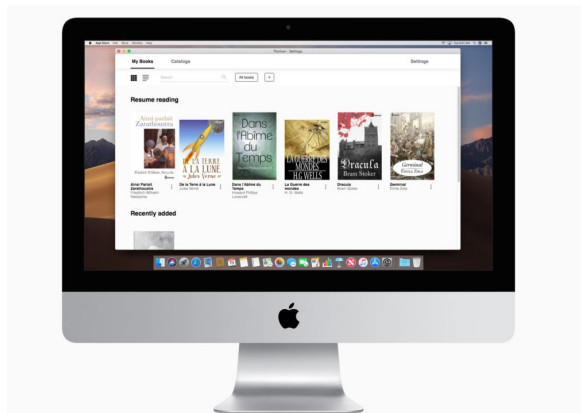
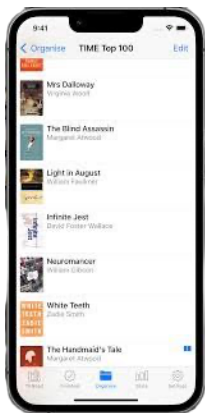


Adobe DRM (fix fee + transaction)



Radium LCP DRM (/ gross revenue or transaction)
Free for specialized reading applications

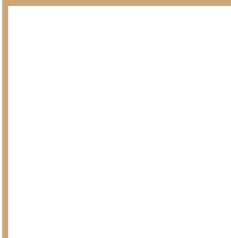
LCP: Diversity of devices (interoperability)



More than 100 applications,
including **Thorium Reader**
(free, localized in Japanese,
desktop, web and soon mobile).

Pocketbook
InkBook
Vivlio
Boox (Android)
Kobo (2026)

Selvas
BrailleSense,
eMotion etc.



Adopting LCP



Adoption, server-side

- Install and set up the LCP Server software
 - open-source
 - plus a confidential software module
- Interface your ebook delivery system to the LCP Server
- Encrypt the catalog
- 1 month of work?

Adoption, client-side

- Recommend the use of an existing application
 - Thorium Reader
 - Can be customized
- Integrating LCP into an existing application
 - Include the confidential LCP-client software module
 - 1 month of work?
- Developing a new reading application
 - Radium Toolkits, open-source (mobile, web)
 - 6 months to 1 year of work?

COMPLETELY
FREE

Read, Select, Annotate, Classify

Perfect for heavy readers, library-goers, and students alike!
No ads, or data leaks to worry about



Download links (Thorium 3.1)



Windows

Windows Store Direct Install 

Mac

Apple Silicon Intel 

Linux

ApplImage Debian 

Minimum system requirement: macOS Big Sur and up; Windows 10 and up; Ubuntu 18.04, Fedora 32, Debian 10 and newer.

Thorium can be customized

Thorium

🏠 ホーム

📖 すべての本

📖 図書目録



Thorium

🏠 Home

📖 All publications

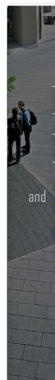
📖 Catalogs

🌐 DemoReader
catalog

📘 FAQ

📘 Help

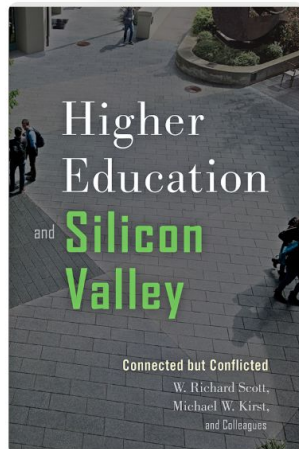
読書



High
W. Ric

EPUB

Resume reading



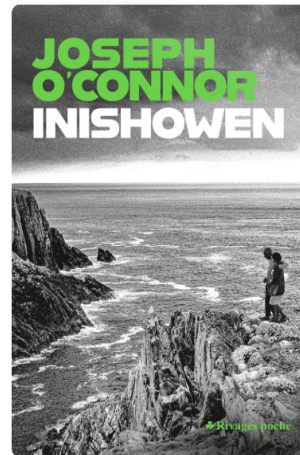
Higher Education and Sili...
W. Richard Scott, Michael W. Kirst, and Colleagues

EPUB



Le Mystère de la chambre...
Gaston Leroux

EPUB



Inishowen
Joseph O'Connor

EPUB



LCP Worldwide



Some adopters



Thanks a lot. More information

<https://www.edrlab.org/readium-lcp/>

contact@edrlab.org

laurent.lemeur@edrlab.org