



Protecting digital books on mobile e-Readers with LCP/Readium DRM

CASE STUDY

Industry: Publishing

Client: ARTHUR Publishing House, Romania

Year: 2022-2024



ARTHUR Publishing House, a leading name in the Romanian publishing industry and the largest children's book publisher, aimed to improve the security of their digital content by implementing advanced content protection for their mobile e-reader apps.

ARTHUR partnered with OPTI to integrate the LCP (Licensed Content Protection) and Radium DRM (Digital Rights Management) technologies into their website and mobile applications.

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CHALLENGES

Digital rights in the design of the e-book solution were essential. Requirements were:

CONTENT SECURITY



ARTHUR Publishing House needed to ensure that their digital content, particularly e-books, was securely protected from unauthorized access and distribution.

INTEGRATION



The content protection system needed to integrate with the mobile e-reader apps, for iOS and Android, and the web site.

USER EXPERIENCE



It was essential to maintain a user-friendly experience for readers while implementing these security measures.



android





SOLUTION

OPTI provided a solution by implementing the LCP/Readium DRM system into the mobile e-reader apps, in two phases.

LCP SERVER SETUP

✓ The LCP server is written in the Go programming language and comprises **three main configured components**:

1. **Lcpencrypt**: An encryption tool for content that generates an encrypted file and notifies the license server.
2. **Lcpserver**: A license server responsible for generating licenses, protecting publications, updating rights, and managing licenses.
3. **Lsdserver**: A license status server that handles device registrations, license status updates, and license revocations.

READIUM DRM INTEGRATION IN SITE AND APPS

- ✓ Integration with the ARTHUR web site allowed encrypting EPUB files, generating, managing and revoking licenses.
- ✓ Integration with the iOS / Android apps ensured that **only licensed users** have access to the sold e-books.

ADVANTAGES OF LCP/READIUM FOR THE CLIENT



It is a **vendor-neutral solution**: It is easy to integrate in ARTHUR'S apps and web site.



No cost per transaction and cost effective: There is no cost per license for ARTHUR.



It respects GDPR: no third party can access user data or ebook content.



RESULTS

The implementation of the LCP/Readium DRM system led to efficient business outcomes.



Enhanced content security

ARTHUR Publishing House successfully protected their digital content, ensuring that e-books were securely distributed to authorized users only.



Efficient license management

The system allowed the publishing house to efficiently manage licenses, including issuing, updating, and revoking them as needed.



Improved user experience

The integration maintained a seamless and user-friendly experience for readers, with minimal disruption.



TESTIMONIAL

"OPTI has been our main partner in web software development, maintenance and web hosting. We recommend their skills in software development as our requests and input are quickly translated into results, thus having a short launch-cycle.."

Bianca Chirică
ARTHUR Publishing House

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OPTI

PRODUCT DEVELOPMENT, AUTOMATION AND DATA MIGRATION

Software company developing products and cutting costs by automations and data migrations. Founded in 2005, with extensive expertise in retail, medical, publishing, and gaming industries.

The OPTI team includes senior analysts and programmers, is ISO 9001 and ISO 27001 certified, HubSpot Solution Partner, Google Cloud Partner and certified in other technological stacks.

CERTIFICATIONS



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