SavaPage

Libre Print Management

by Rijk Ravestein, savapage.org

Sunday • November 29 • 14:00 - 15:00 hrs

- 1973 : University of Utrecht
- 1980 : MSc Cognitive Psychology
  - Human Information Processing
- 1985 : Software Developer
  - Cobol, C, C++, Smalltalk, Java, . . .
- 1998 : Owner of Datraverse B.V.
  - Software Development Contractor
  - VAR of Sustainable Printing Solutions
- 2011 : Creator of SavaPage
  - Developer, Community Manager, Legal Guardian

Agenda

T-DOSE
The place where experts meet

- Print Management
  - What is it?
  - Why do we need it?
  - Who provide it?
- Issues . . .
- Libre Print Management
  - Why SavaPage?
  - How does it work?
- SavaPage Community
  - Road-map
  - How to join?
- Questions . . .

What is Print Management ?

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- Tracking & Tracing

- Monitoring and control

- Pay-per-Print

€ 0.05

- Secure Pull-Printing

- Copy control

Why Print Management ?

Who provides the hardware ?

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RICOH

nashuatec

xerox

Canon

LEXMARK

KONICA MINOLTA

SHARP

TOSHIBA

KYOCERA

hp

SAMSUNG

Who provides Print Management?

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equitrac

EVERYONE PRINT

COUNTER EUROPE

Nuance® SafeCom™

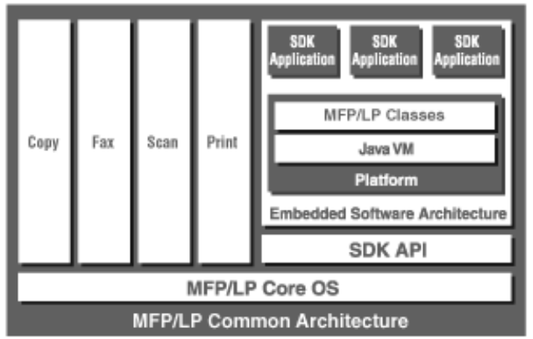
uniFLOW

PaperCut MF™

Print Management Issues

- Proprietary Devices
  - Multi-Functionals and Copiers
  - Peripherals

- Closed Software
  - Embedded on SDK
  - Certification Programs
    - €€€€€



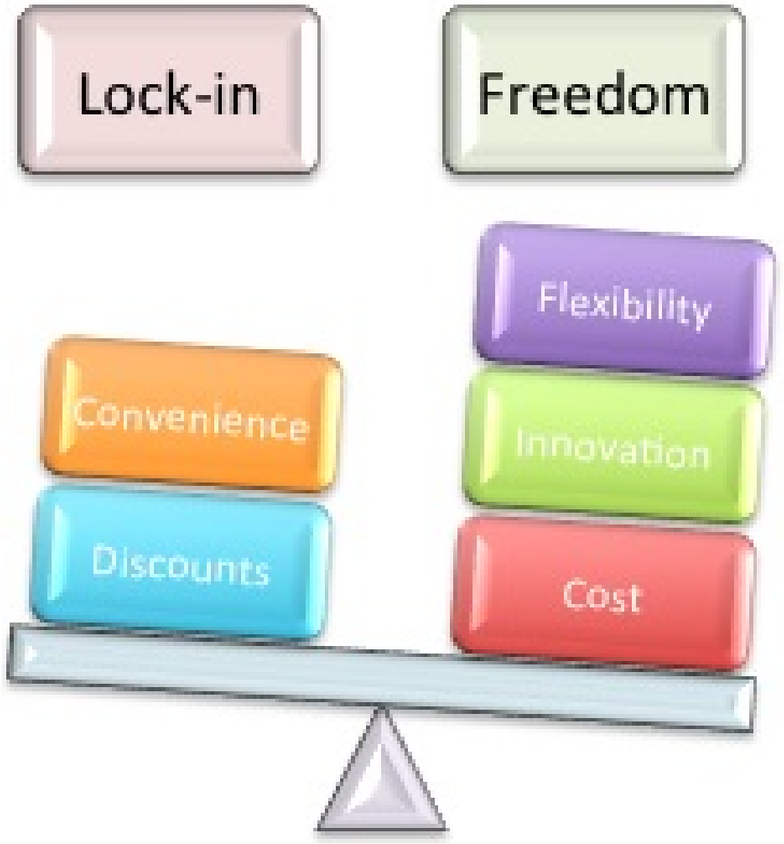
Enter SavaPage . . .

What is SavaPage ?

T-DOSE
The place where experts meet

- Common features
  - Tracking & Tracing, Pay-Per-Print, Secure Pull-Printing
  - Driver Print, Web Print, Mail Print, AirPrint, Google Cloud Print
  - Comprehensive User Manual
  - and more . . .
- Unique features
  - Corporate Virtual Printer + PDF Creator
  - Free Software (AGPL), Open Standards, Commodity Hardware
  - GNU/Linux Server, Platform for Innovation
  - Supports all Client Platforms & Mobile Devices
  - Community Support

Why Free Software ?



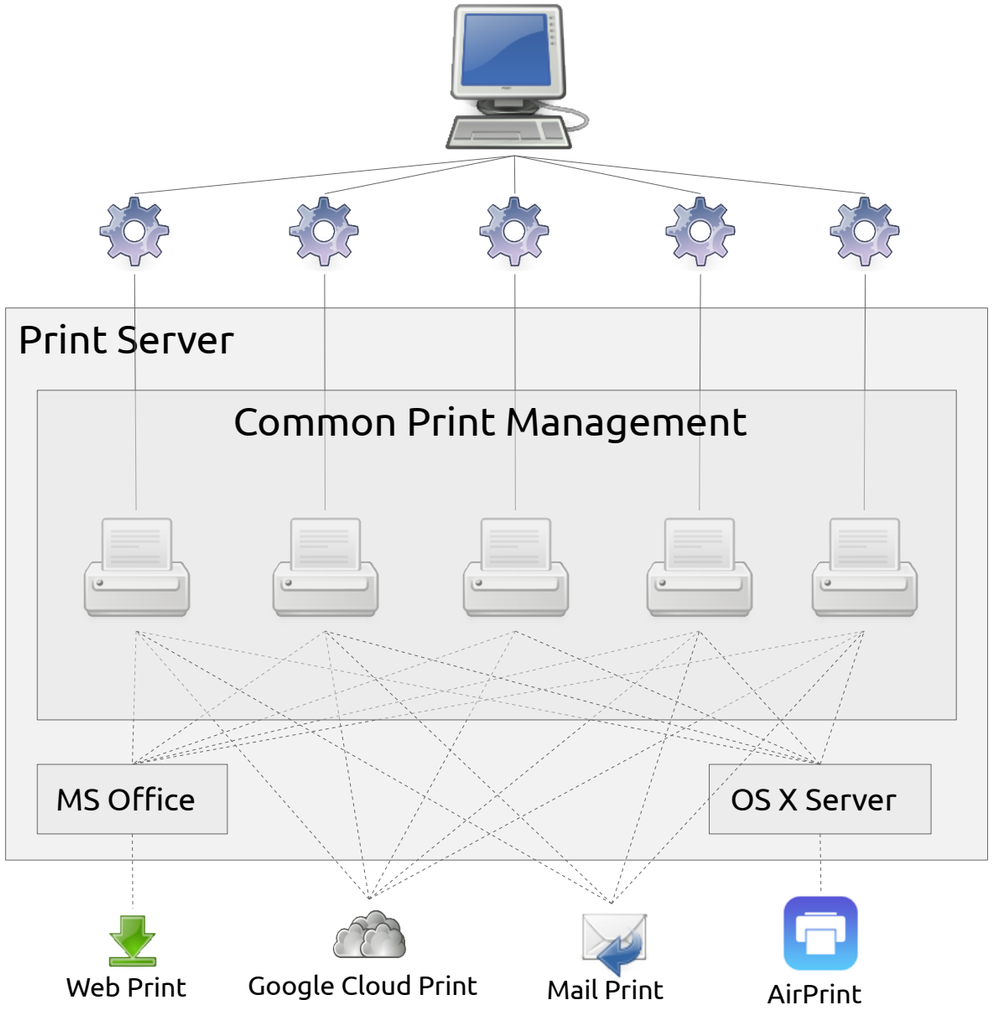
SavaPage helps **Schools, Non-Profits** and **Corporations** solve . . .

ELEVATOR PITCH

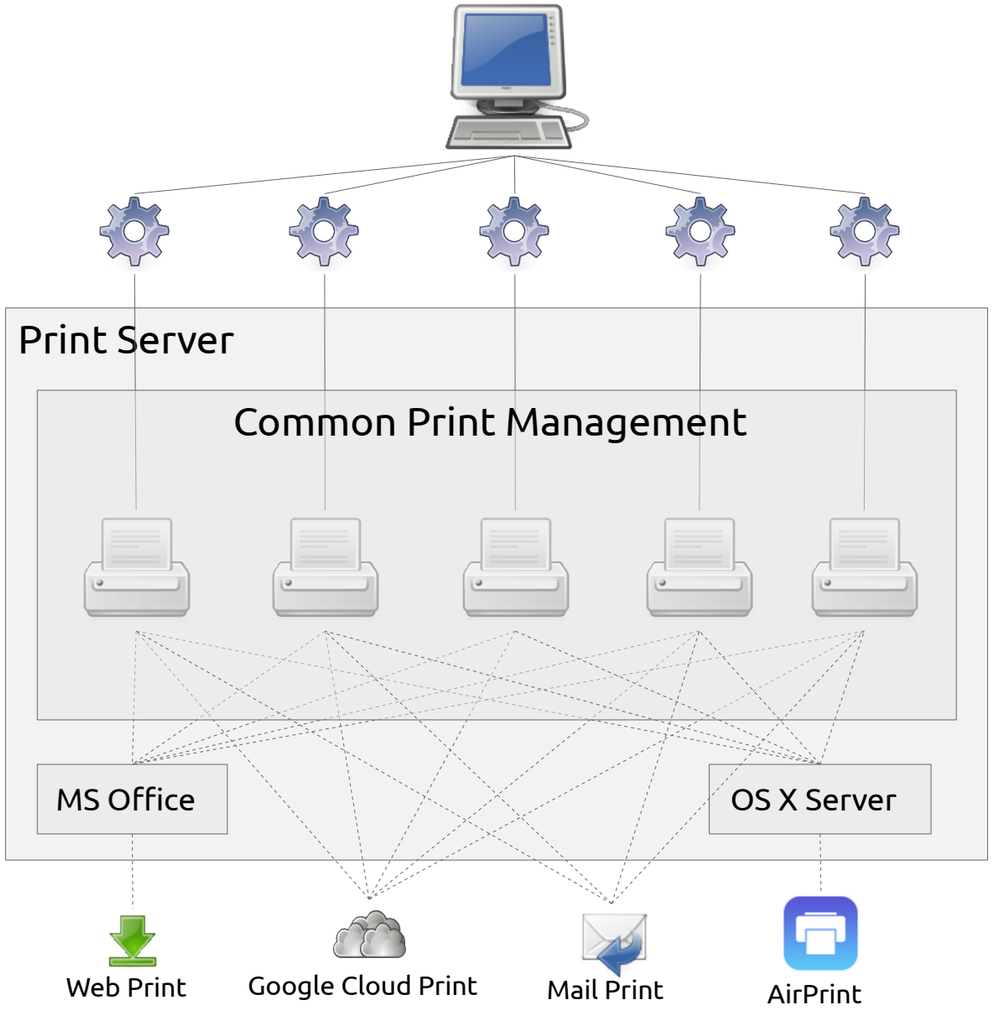
- **Vendor lock-in**
  - by providing a **Free Software Solution** to accomplish
    - **An Open Learning Environment with Open Source IT**
    - **An IT infrastructure philosophically aligned with social ideals**
    - **Independence and innovation with Open Standards and Open Source**
- **High IT costs**
  - by providing a **Free Software Community** to accomplish
    - **Optimal use of tax money for educational practice**
    - **Optimal use of member donations for primary activities**
    - **A level playing field for sustainable solution providers**

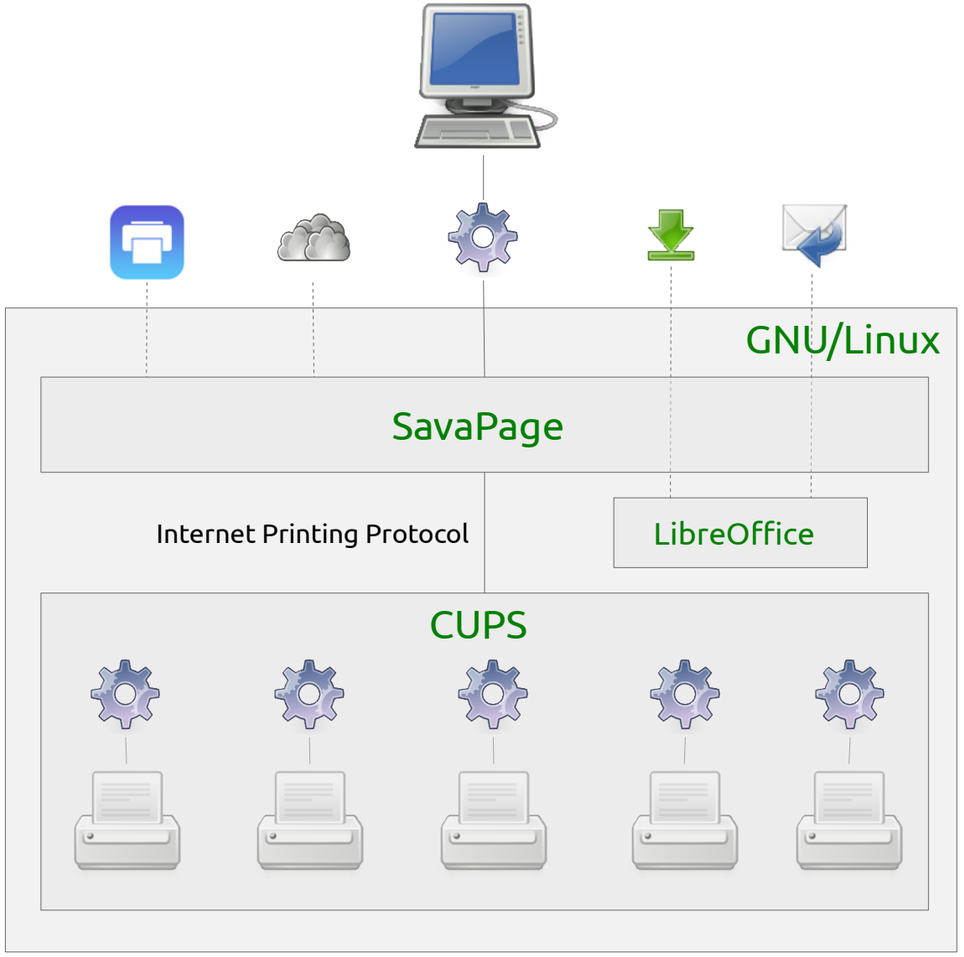
And yes, you can use it @home

How does SavaPage work?



How does SavaPage work?





Step 1: Print

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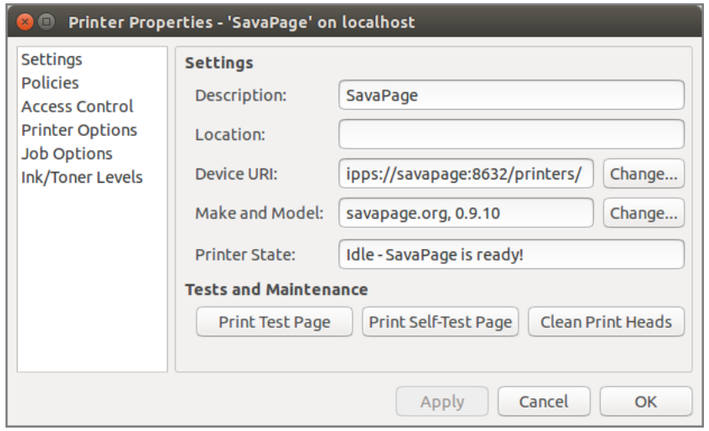
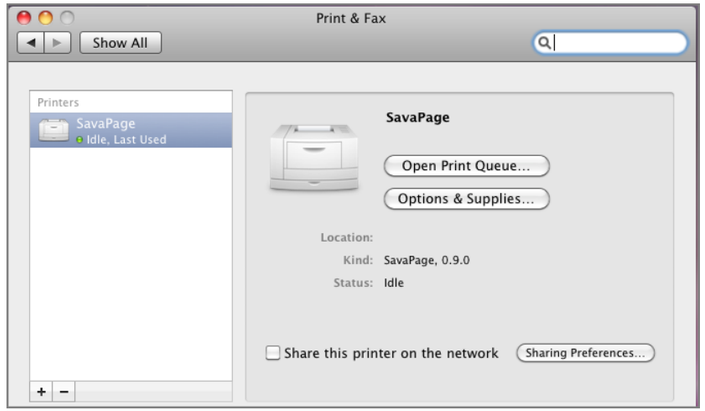
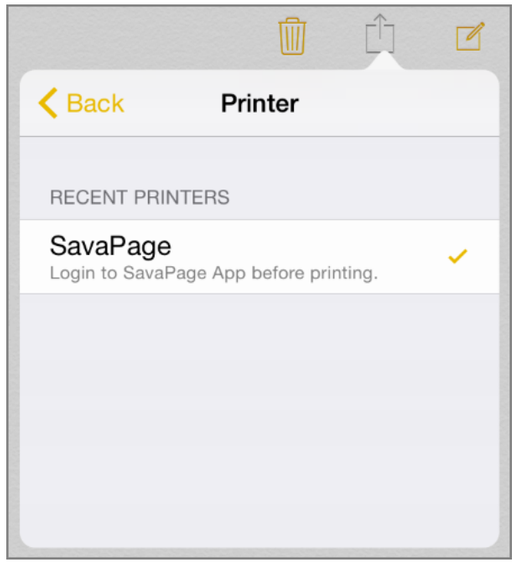
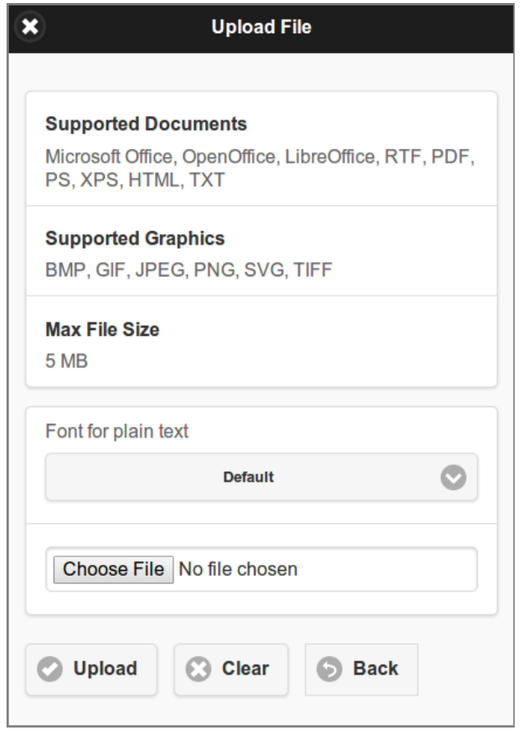
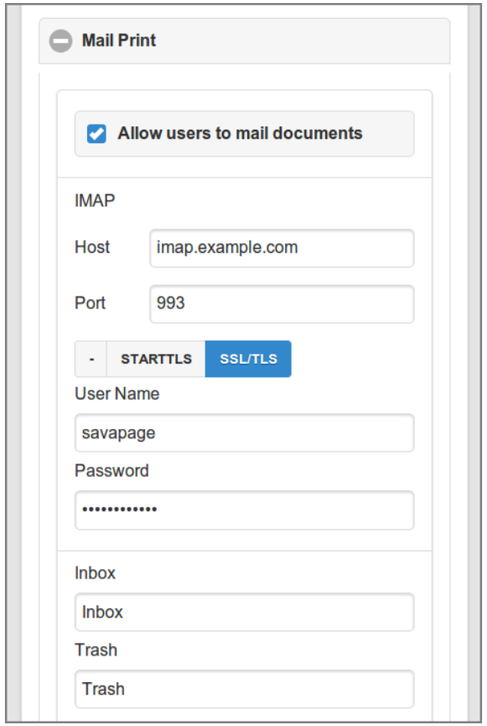
The place where experts meet

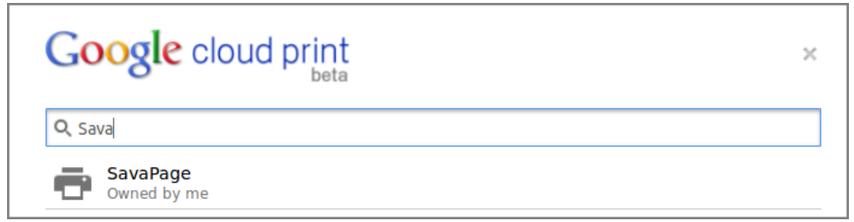




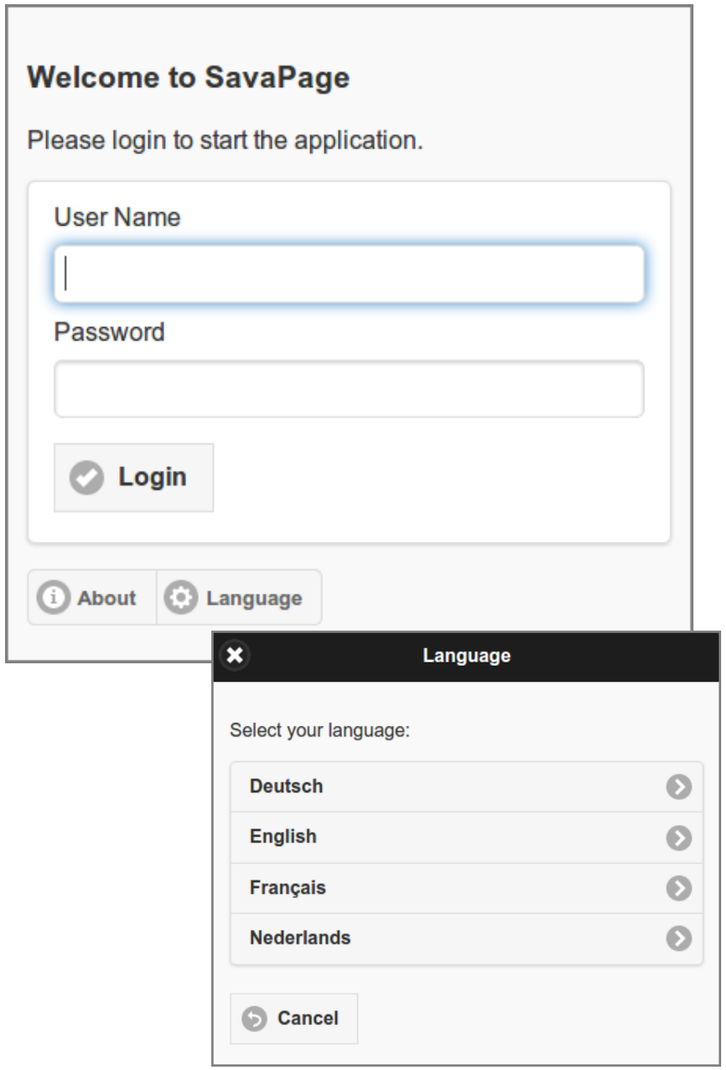


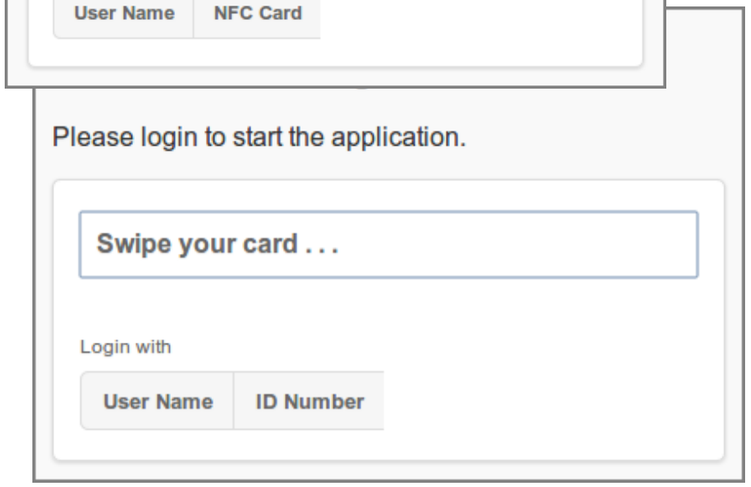


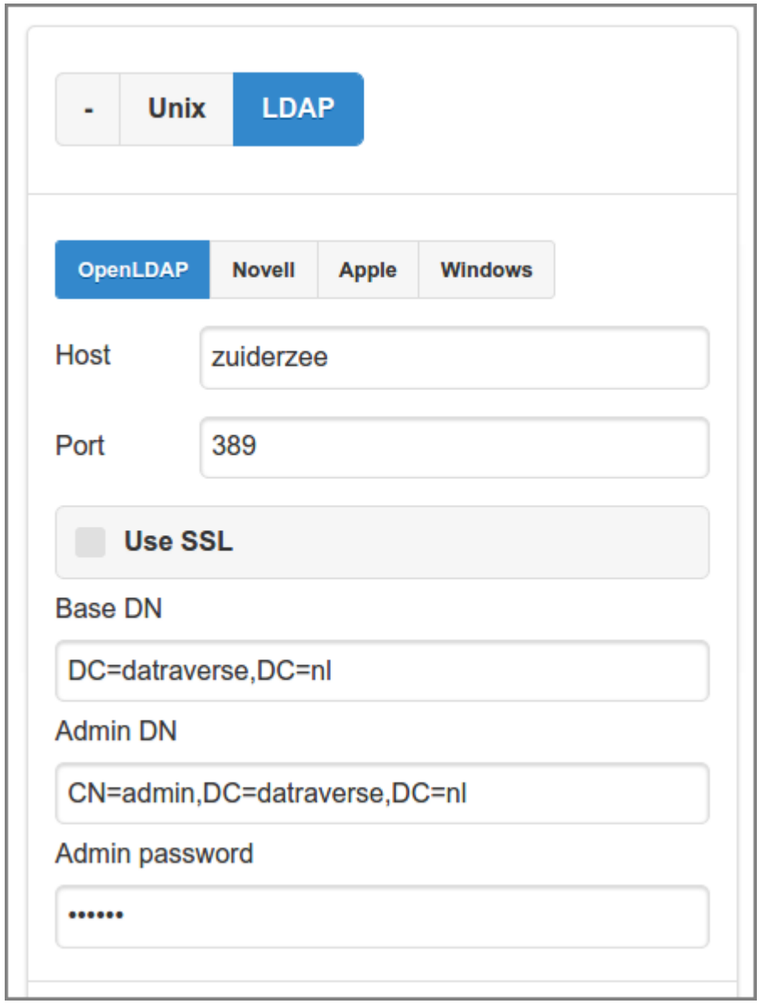




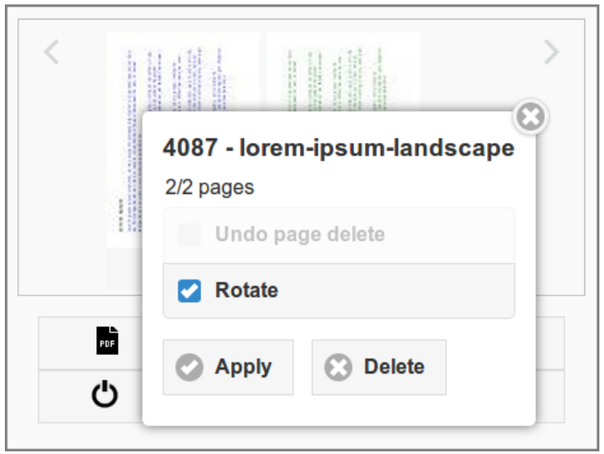
Step 2: Login Web App

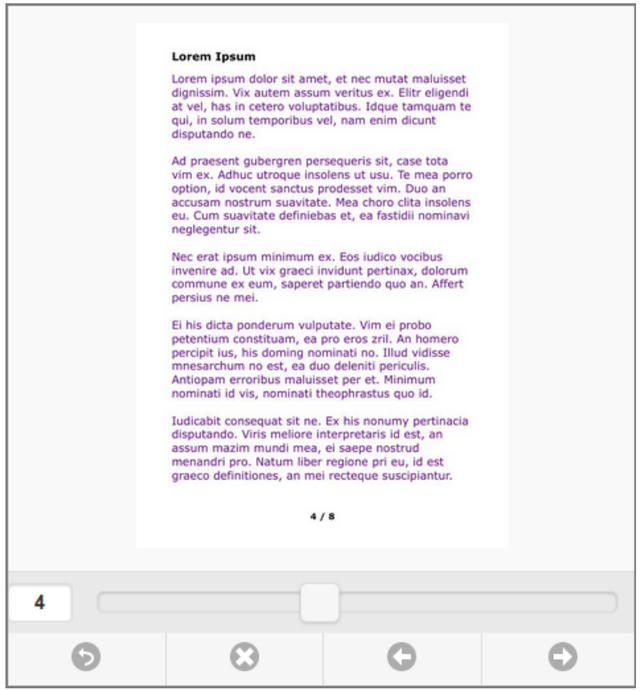


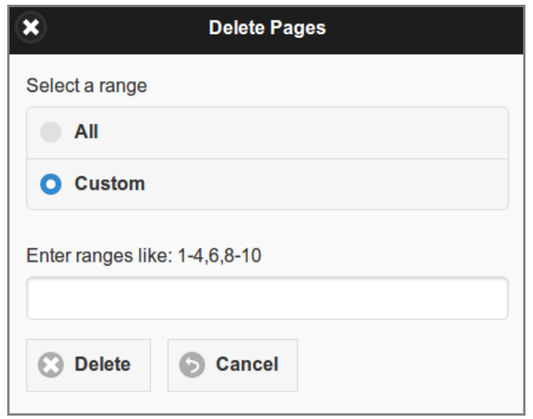




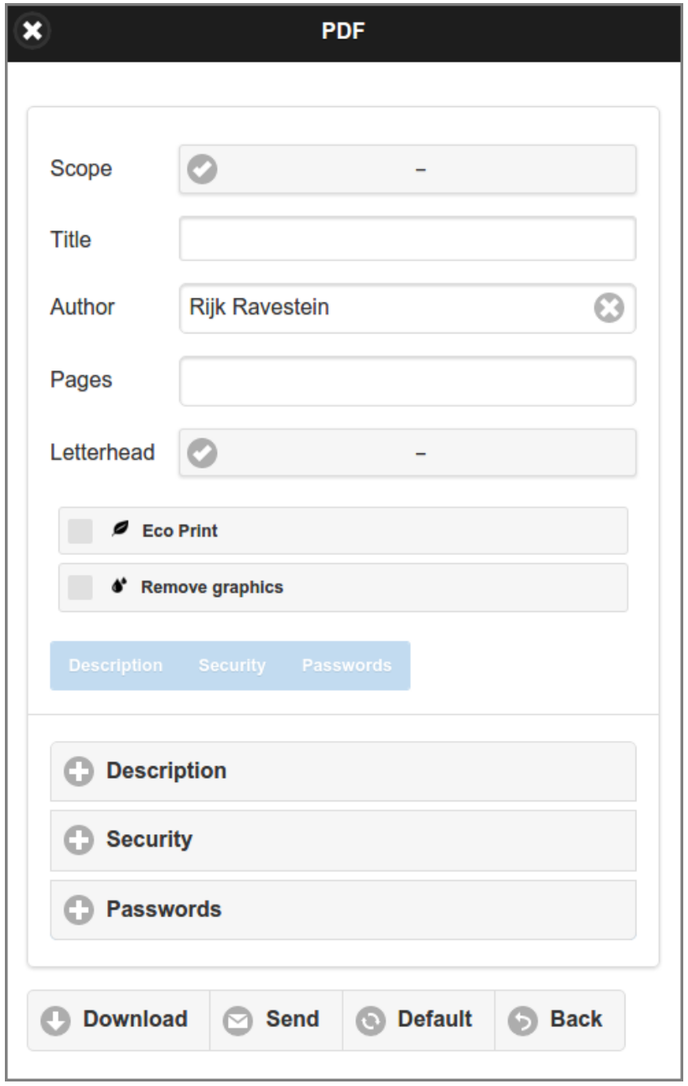
Step 3: Preview, edit . . .

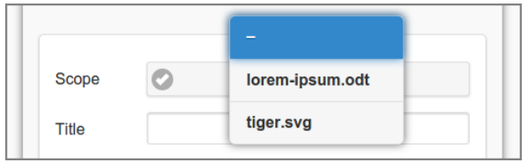


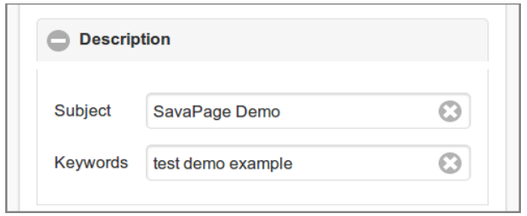


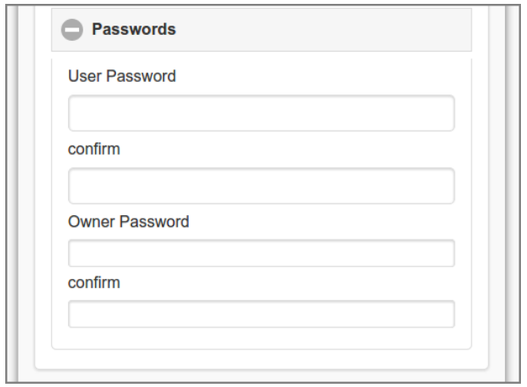


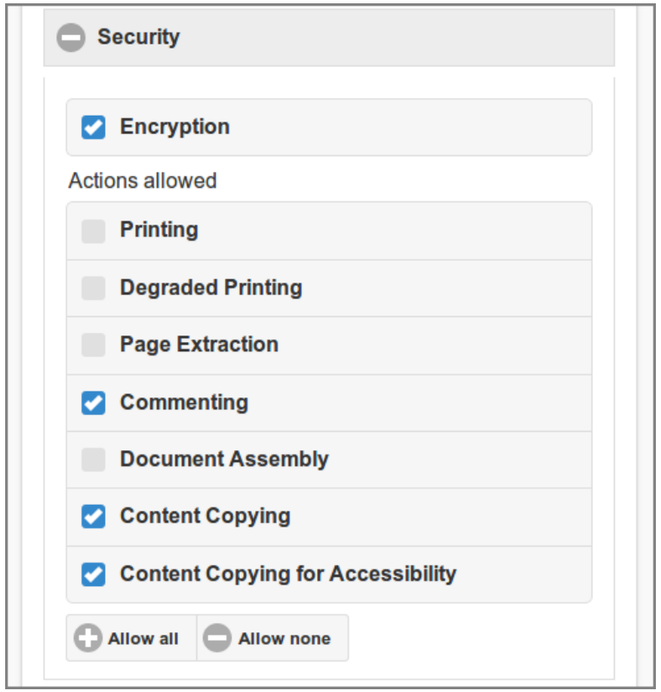
Step 4a: Save as PDF



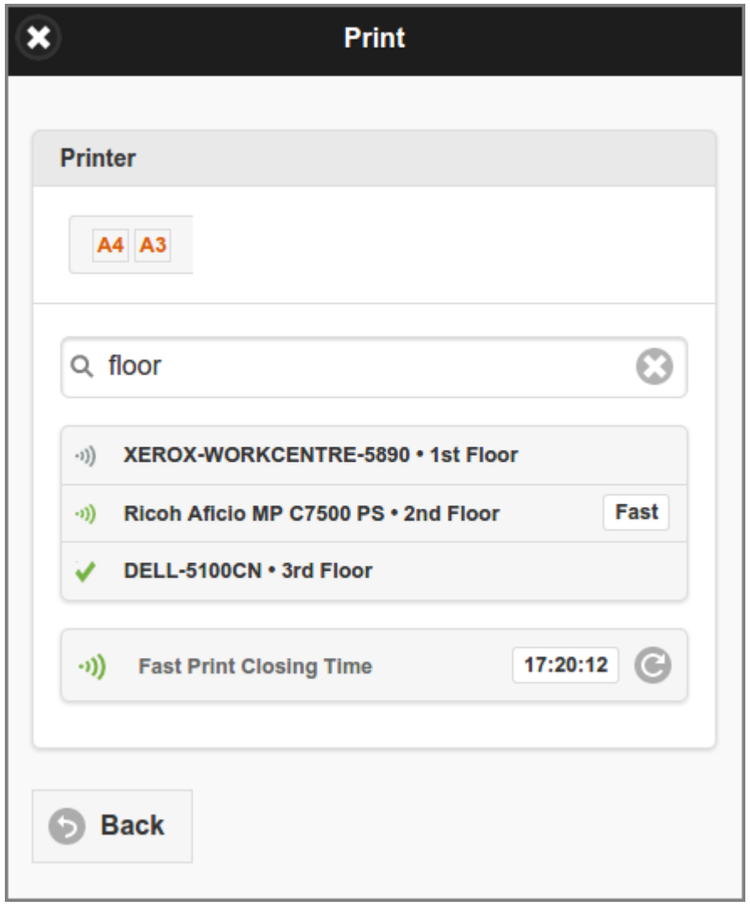


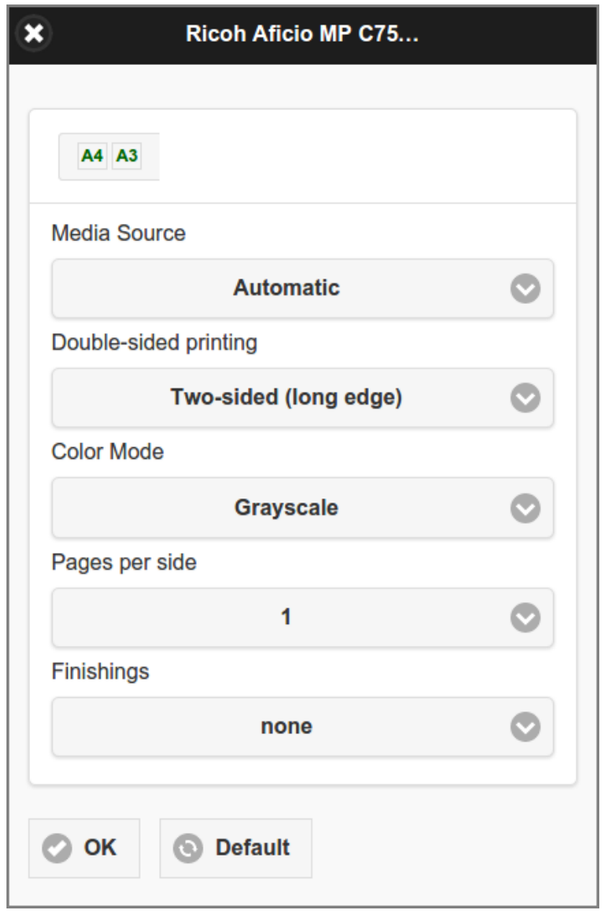


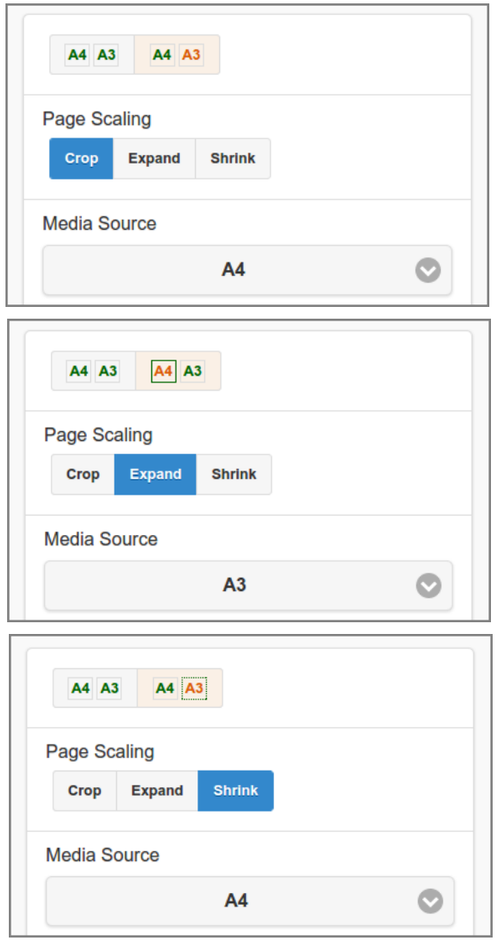




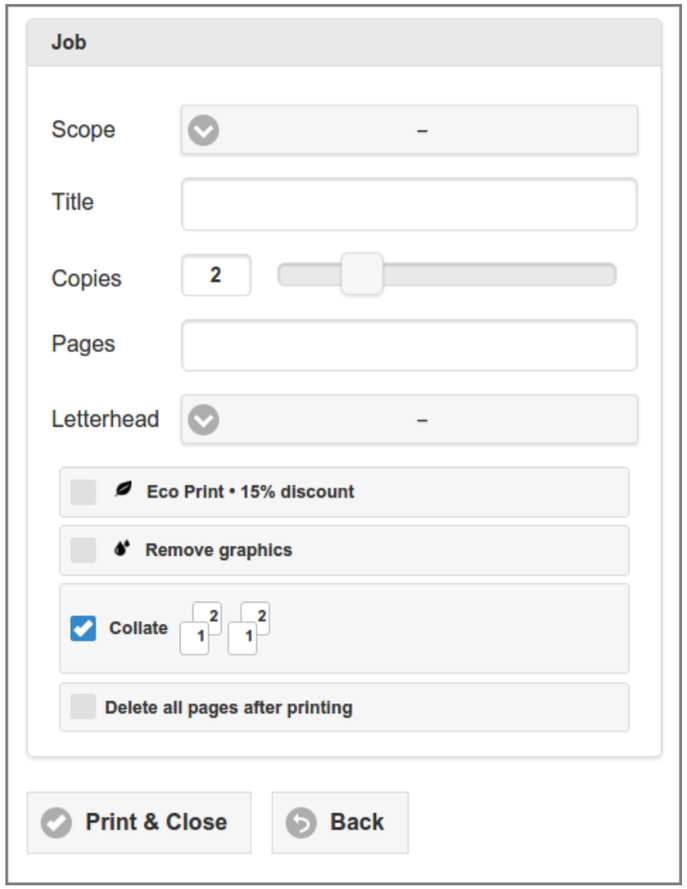
Step 4b: Proxy Print

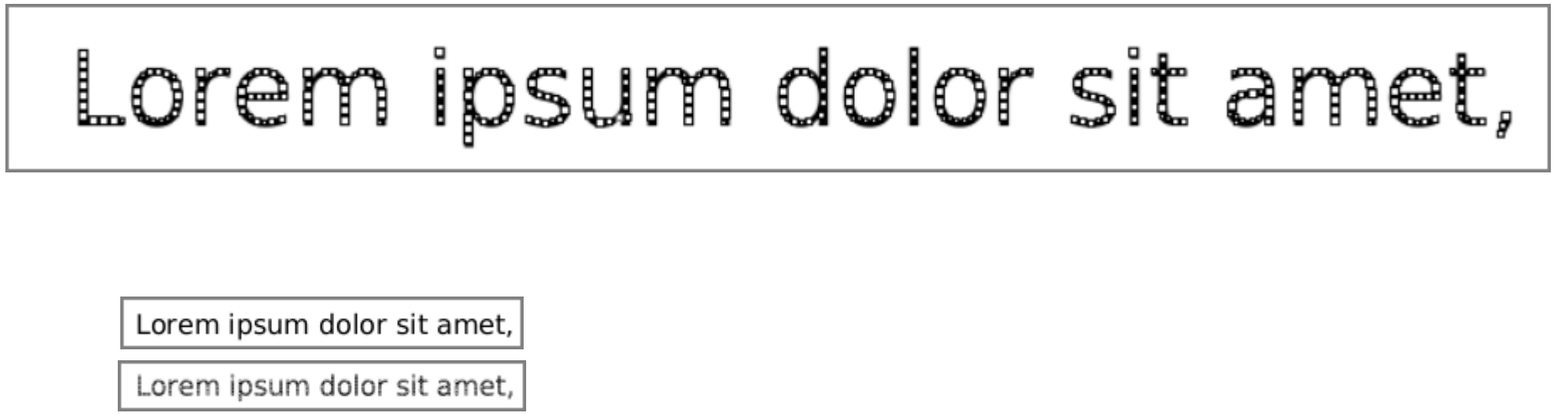




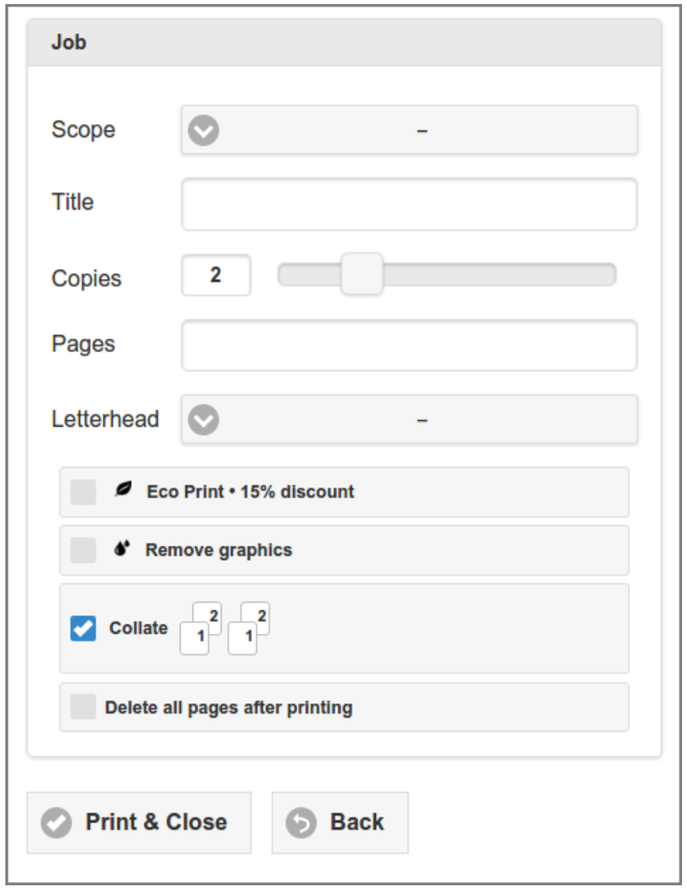


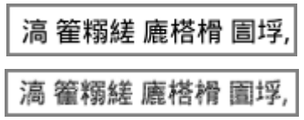
Step 4b: Eco Print (1)



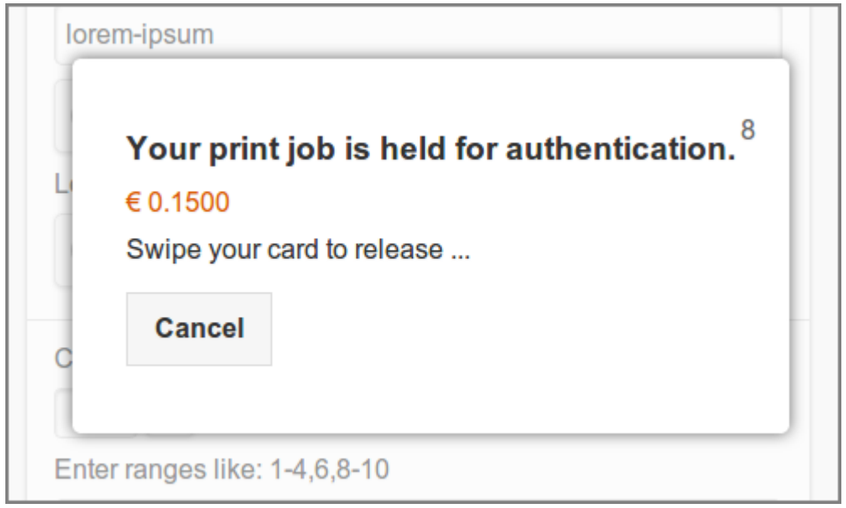


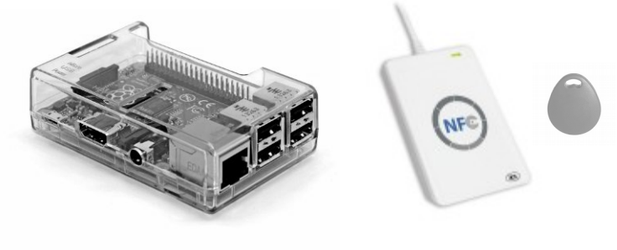
Step 4b: Eco Print (2)

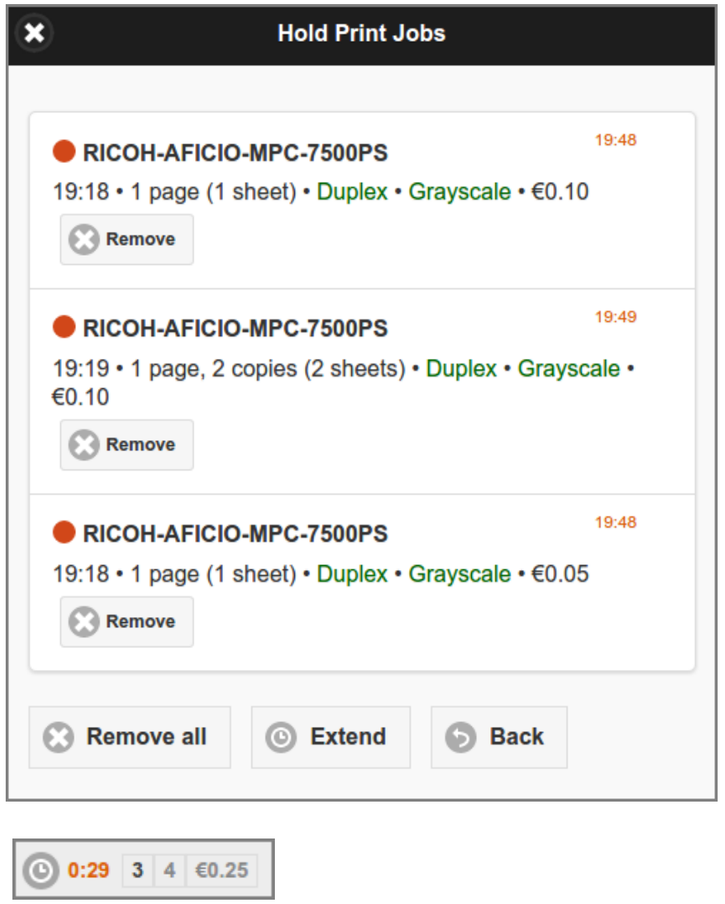


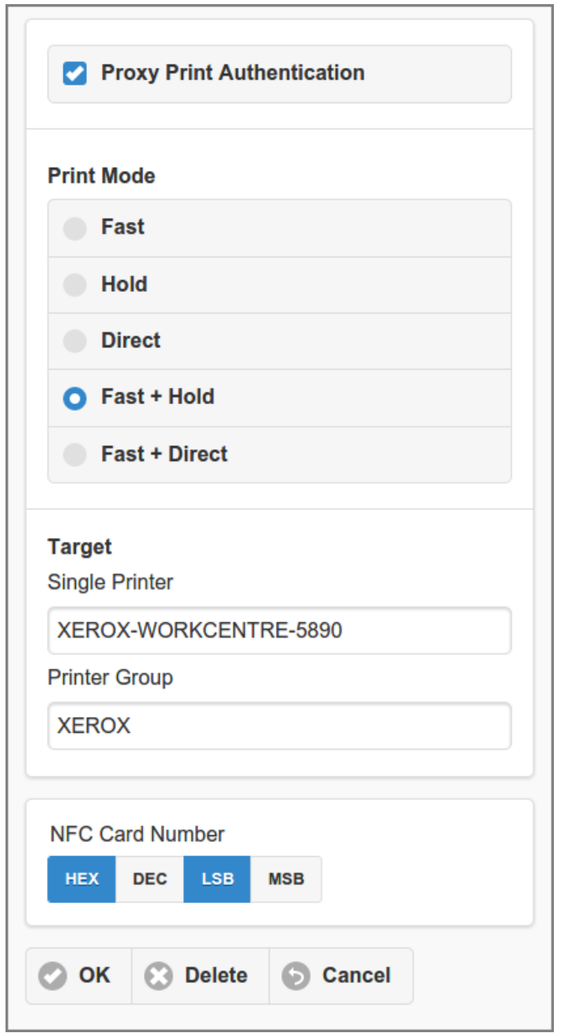


Step 5: Print Release









Step 6: Recharge account

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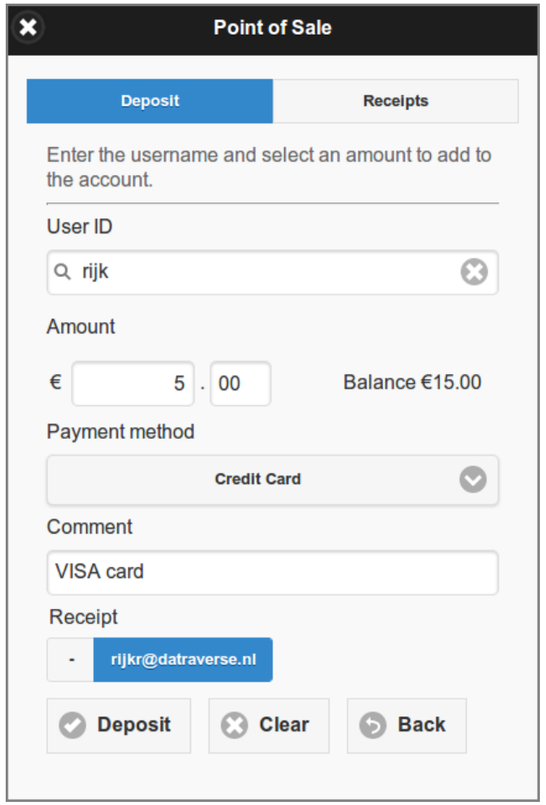
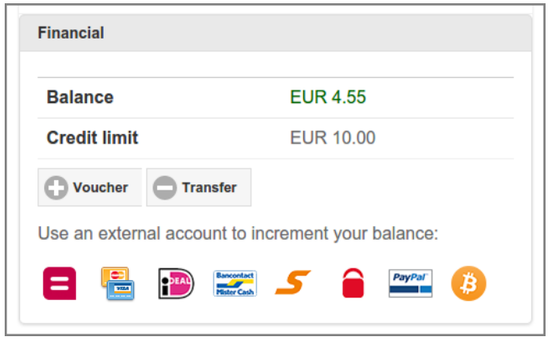
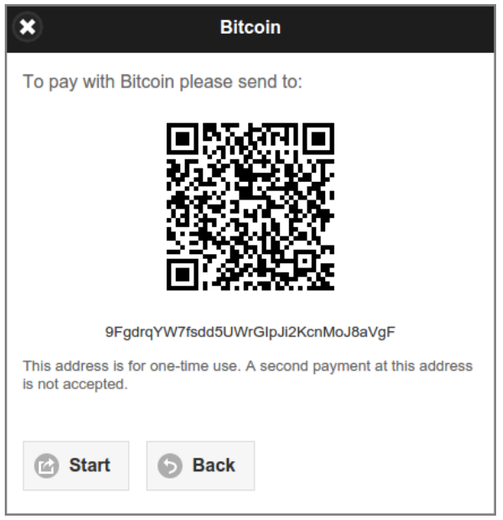
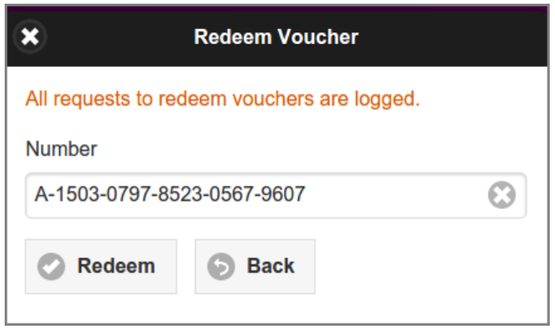
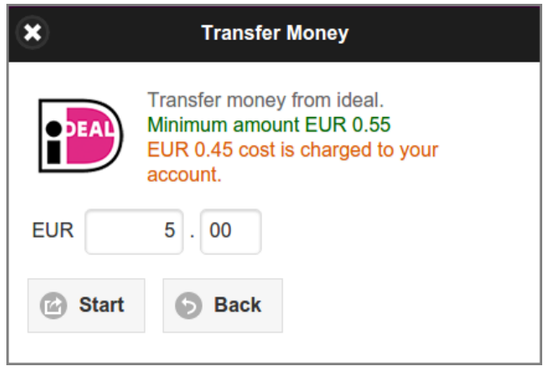
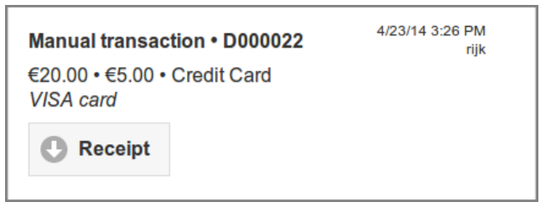


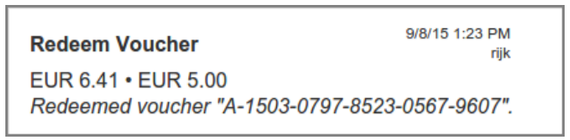




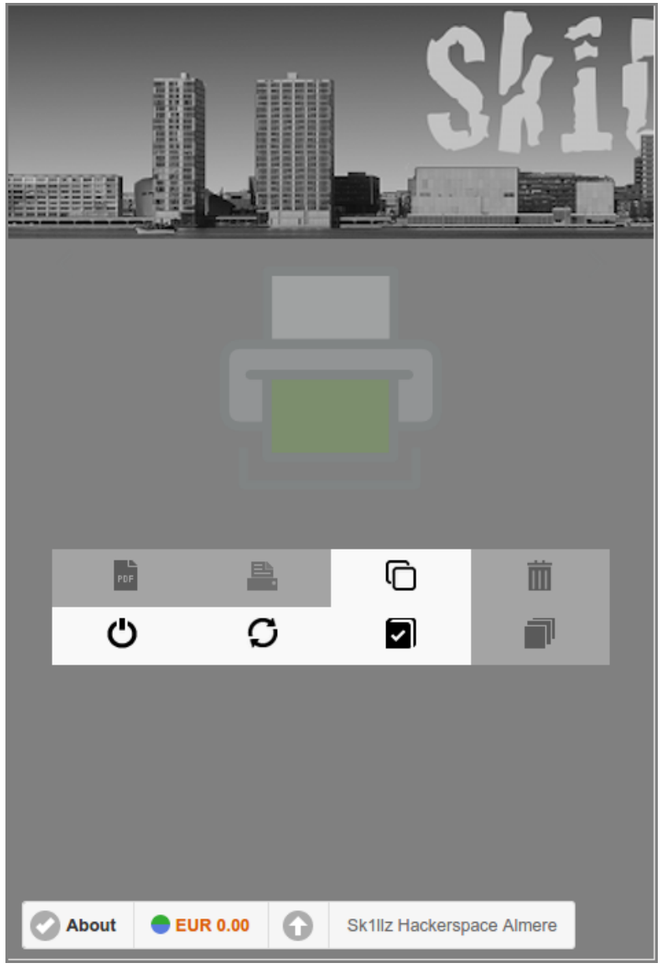


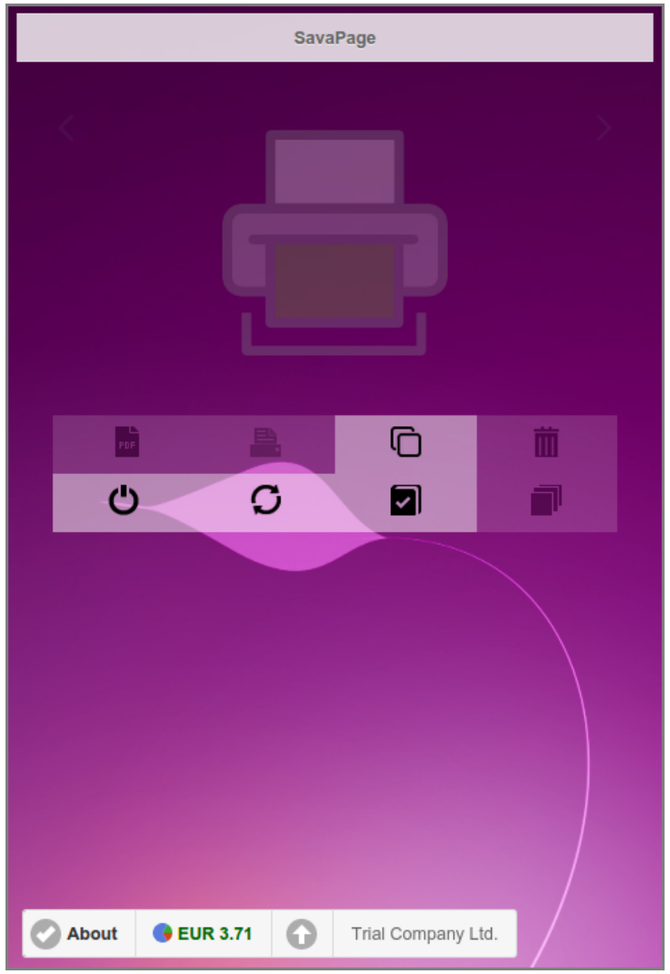




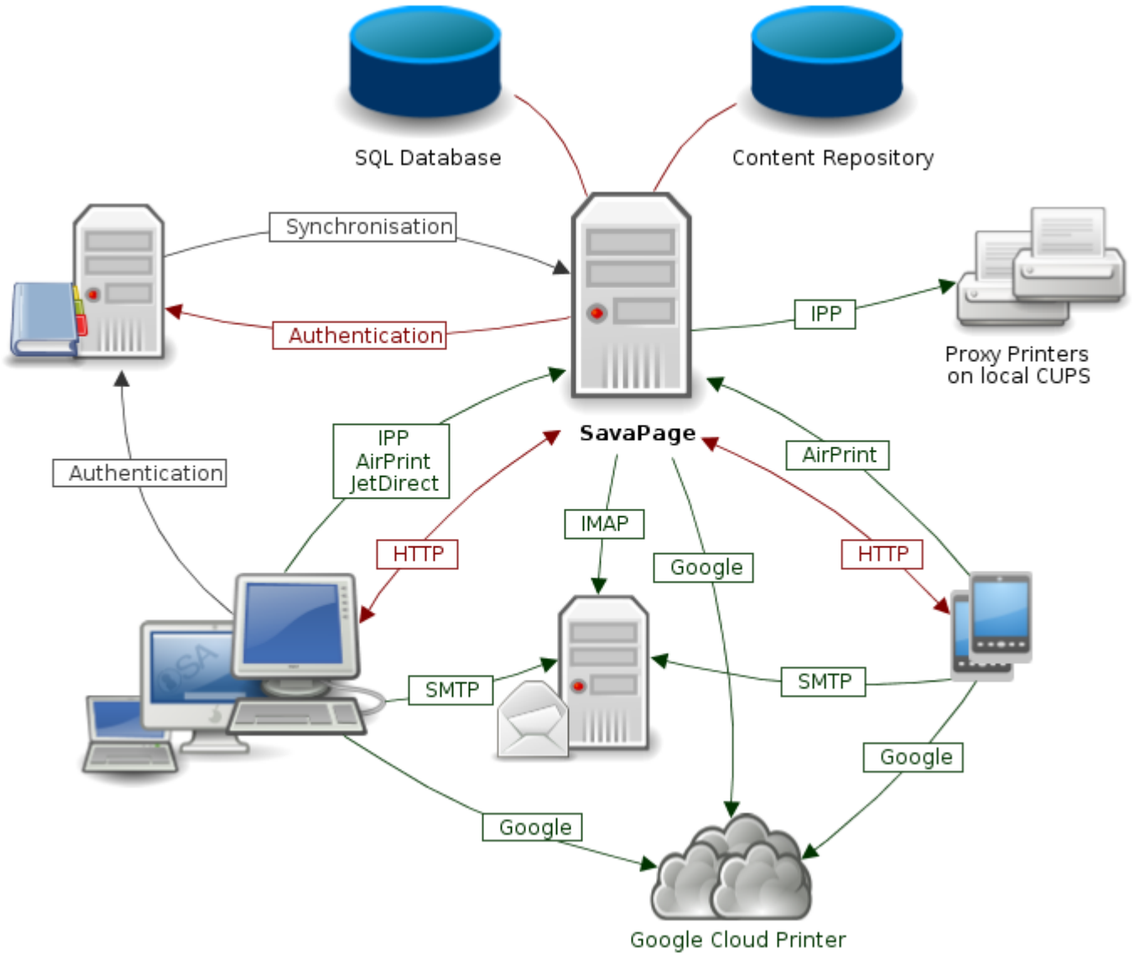


Customize

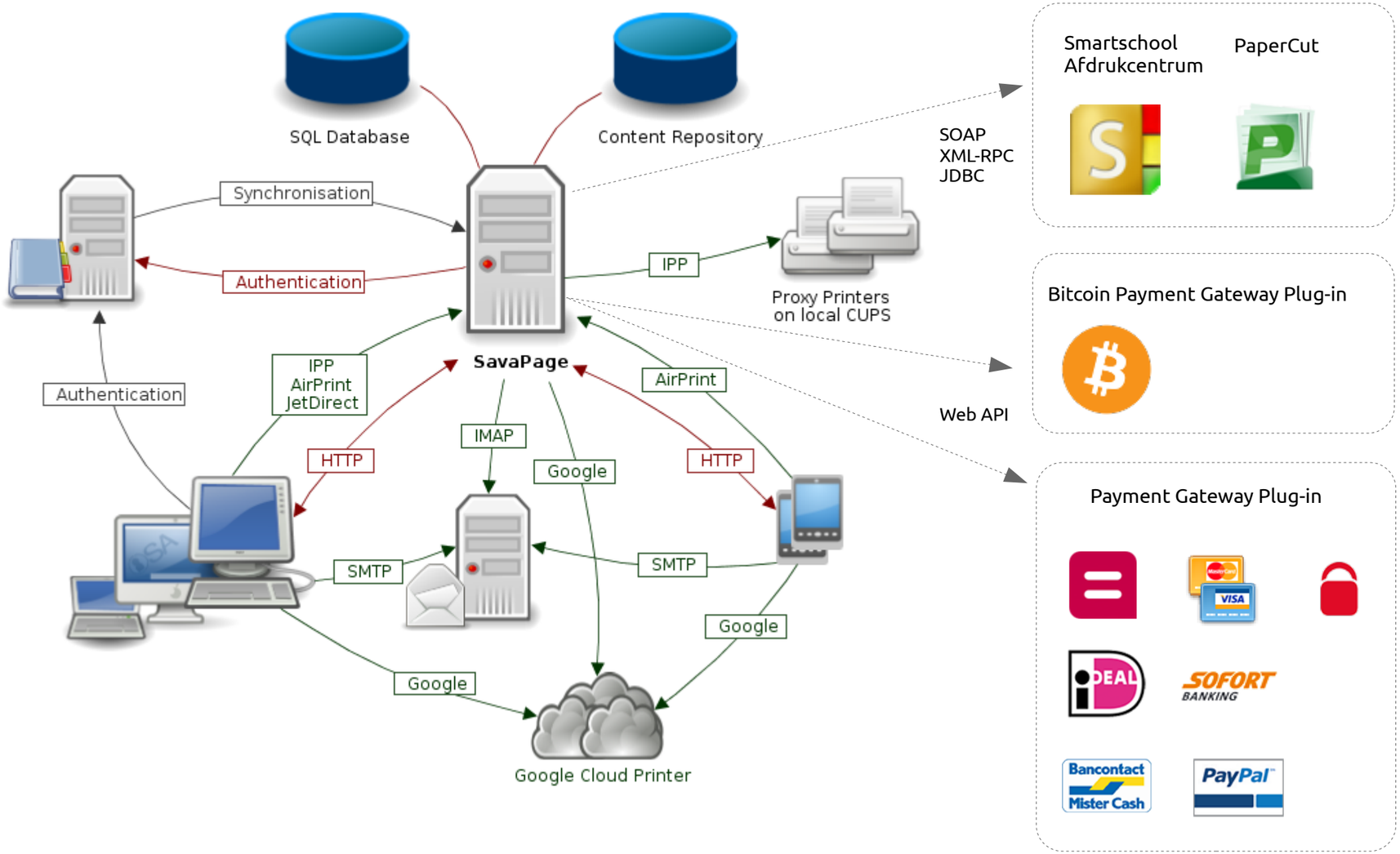

About
EUR 0.00
Sk1llz Hackerspace Almere


SavaPage
About
EUR 3.71
Trial Company Ltd.

Behind the scenes



Plug-ins


SQL Database
Content Repository
Synchronisation
Authentication
IPP
Proxy Printers
on local CUPS
SavaPage
SOAP
XML-RPC
JDBC
Smartschool
Afdrukcentrum
PaperCut
Bitcoin Payment Gateway Plug-in
Web API
Payment Gateway Plug-in
Authentication
IPP
AirPrint
JetDirect
AirPrint
IMAP
HTTP
Google
HTTP
SMTP
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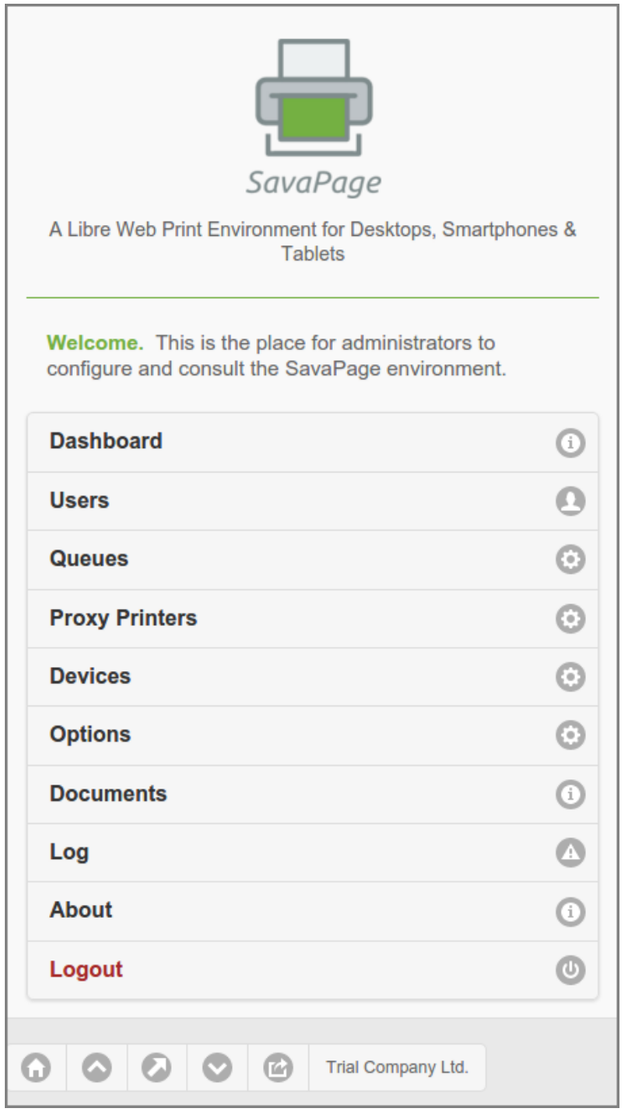
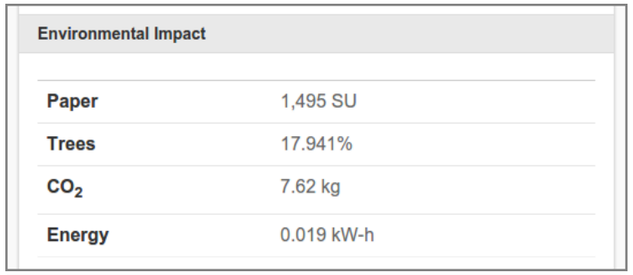
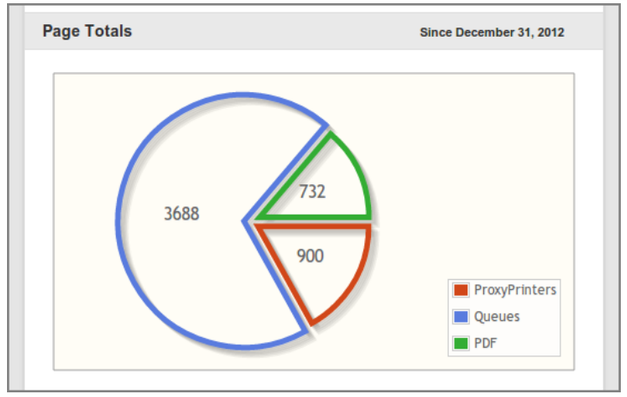
iDEAL
SOFORT
BANKING
Bancontact
Mister Cash
PayPal

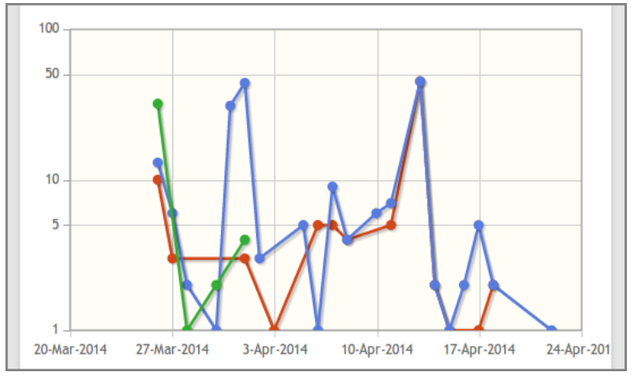
Admin Web App

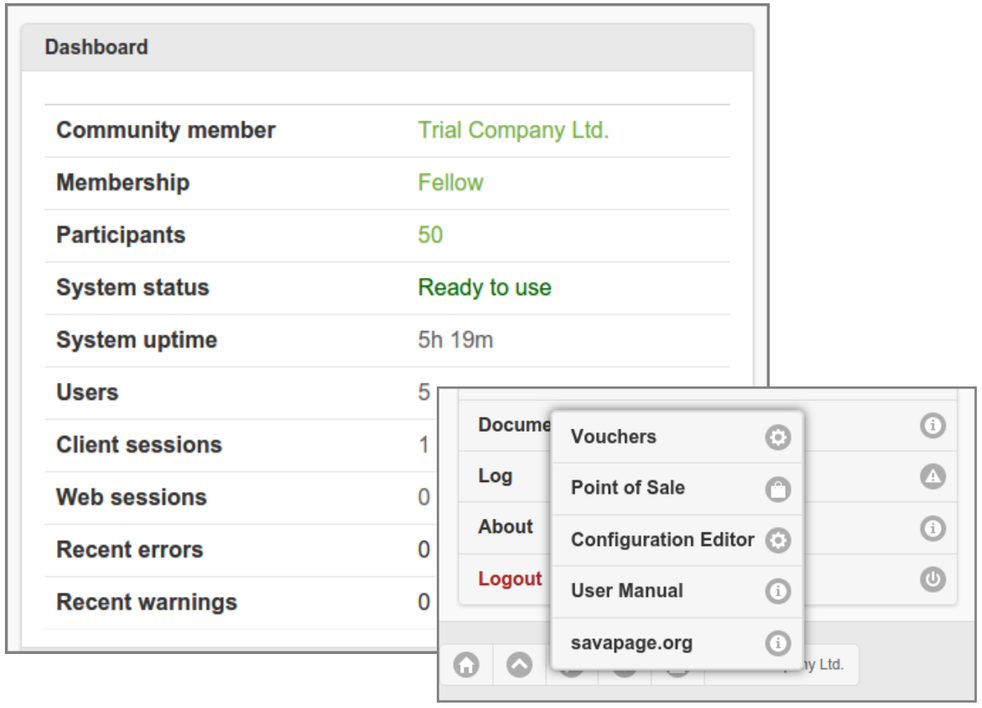
T-DOSE
The place where experts meet

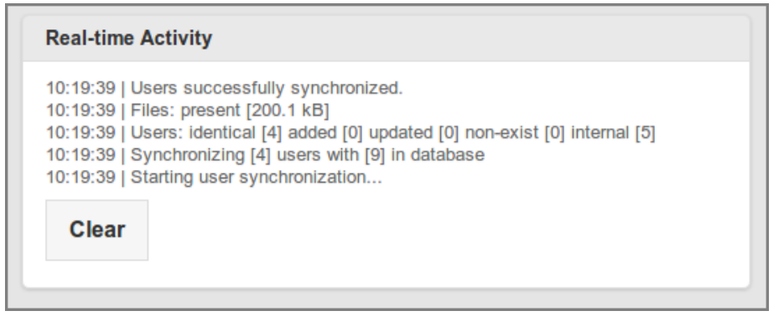






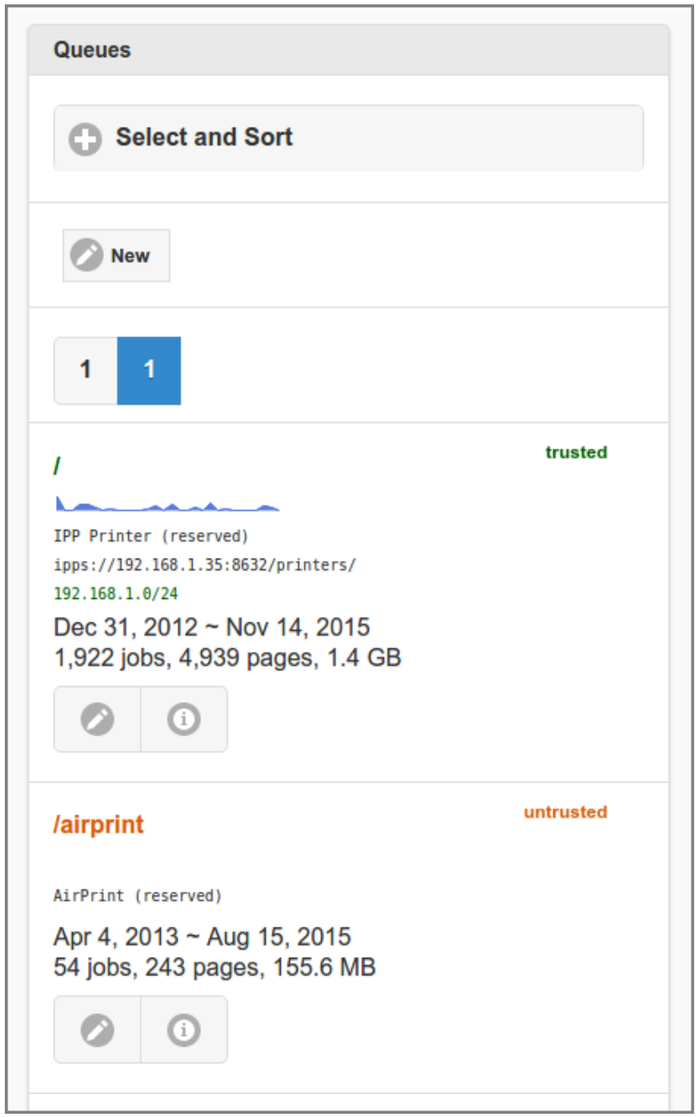


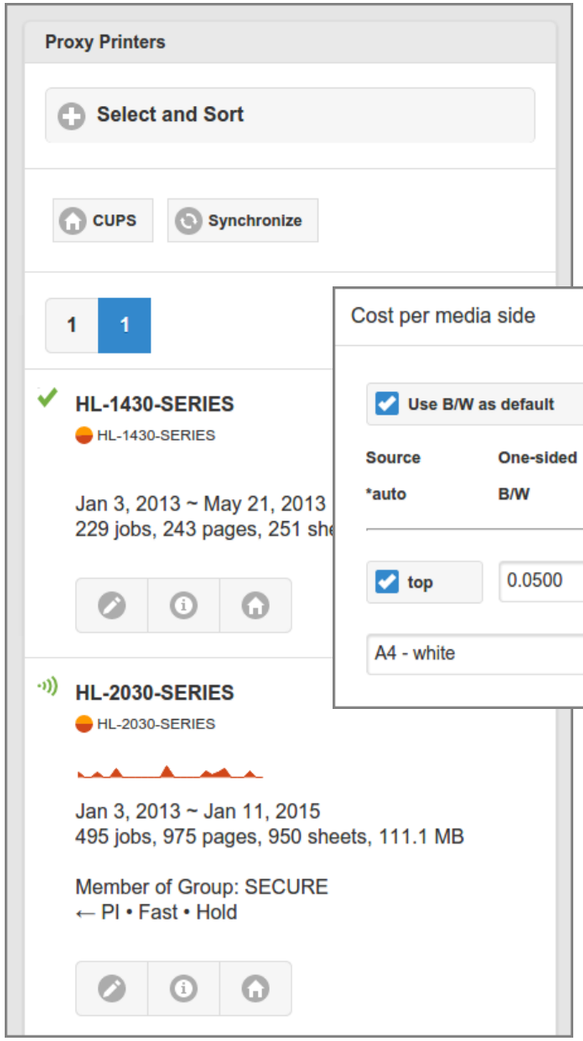


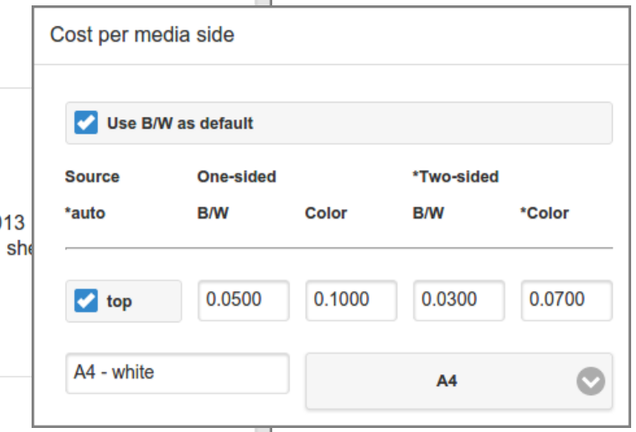


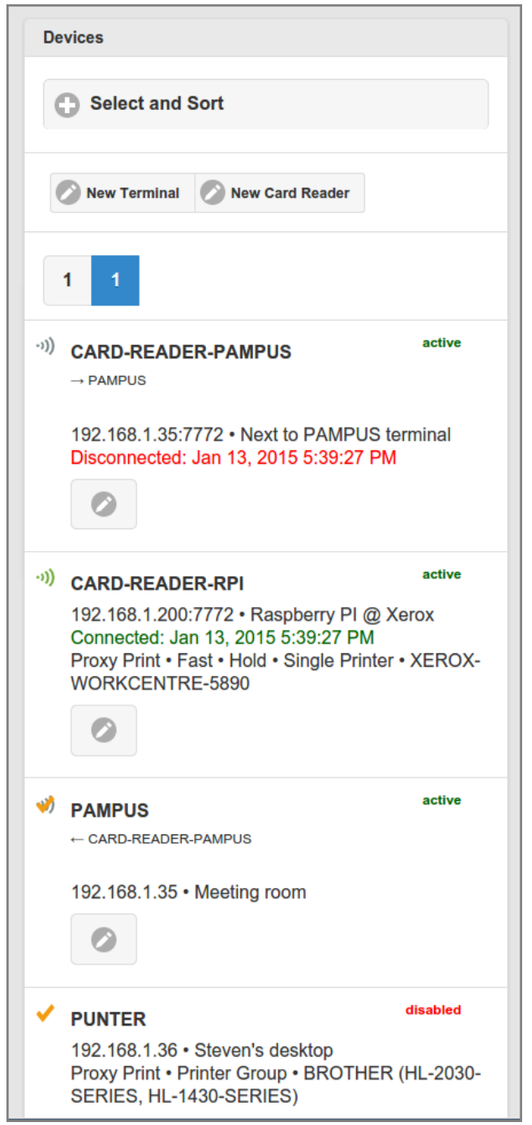
Admin Web App

T-DOSE
The place where experts meet









SavaPage • Libre Print Management • savapage.org

- Just-in-time print-spooling
  - Spool files can be huge, held jobs use a lot of disk space
  - Job options are lost or irrelevant when spool file is moved to another queue
  - Snooping on shared hold/release queues
  - Original PDF + job options are held/released
    - Jobs need not be moved to a native release queue
    - Jobs options are retained
- Print Preview
  - Mindless printing
  - Print preview, concatenation, editing, letterheads
  - PDF Creation, “why print when you can save-a-page”
  - Save ink and toner with Eco Print and graphics filter

Innovations (2)

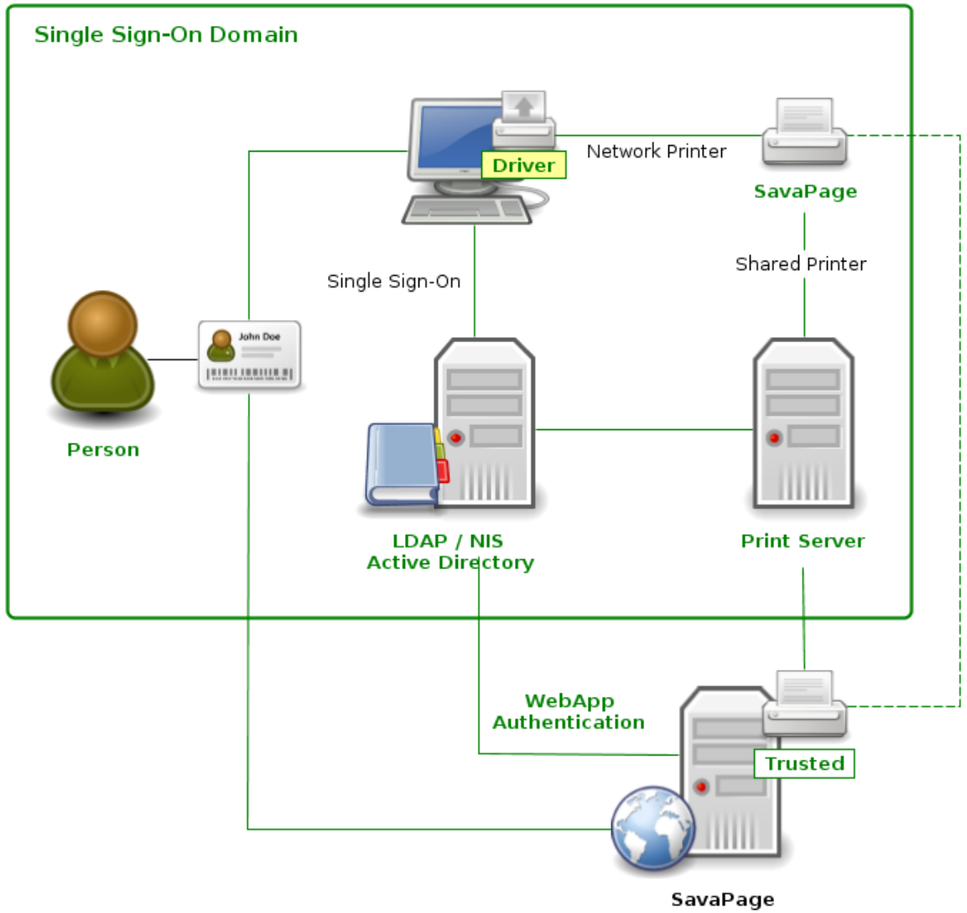
T-DOSE
The place where experts meet

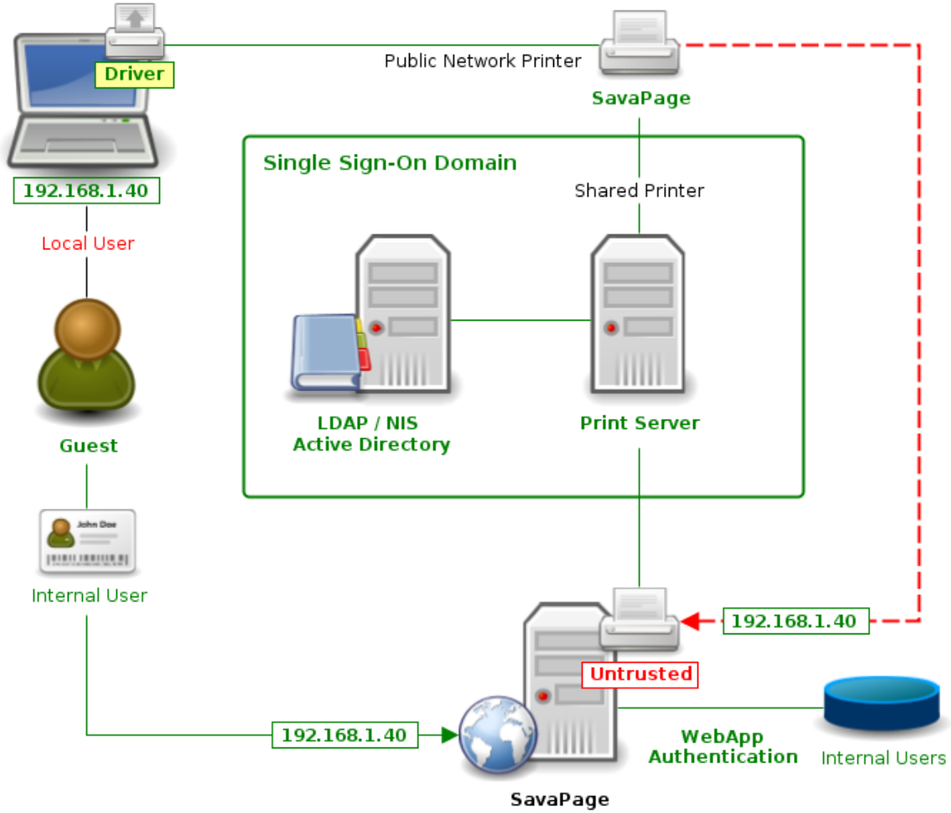
- One front-end printer
  - Multiple printer drivers on Windows desktop (bloadware)
  - One Generic Postscript Driver
- SSL printing
  - Sniffing print jobs and replaying them
    - http://www.irongeek.com/i.php?page=security/networkprinterhacking
  - IP printing on port 9100
  - ipp**s**://savapage:8632/printers (or http**s)**
  - Proxy printer connections are sand-boxed and centrally guarded
- Hardware requirements
  - 2 CPU cores, 2 GB RAM, 8 GB+ HDD, virtual machine compatible

- Saved copies on printer HDD
  - Configure your MFP (AES encrypt HDD)
- Secure MFP access
  - Network access
  - Device access
- Google Cloud Print?

- Tracking and Tracing
  - Database
    - Omit document names
    - Anonymize jobs
  - Personal queue
    - Stored PDF files
- Monitoring and Control
  - Transient data (control)
  - Trends, violations (monitoring)

It's all about trust, stupid !





- Fellows – Donations
  - Technical Support
  - Requirements
- Partners – Fair share
  - Development Partners
  - Deployment Partners
    - Service Level Agreement
  - Translation Partners
- Community Manager
- Legal guardian

Fellow donations

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Commercial Fellow

Participants	First Year	Next Yearly
25	€ 350	€ 160
50	€ 425	€ 160
75	€ 500	€ 160
100	€ 550	€ 160
150	€ 675	€ 160
Above 150		
+10	€ 15	€ 3

Educational Fellow

Participants	First Year	Next Yearly
500	€ 425	€ 160
1000	€ 550	€ 160
1500	€ 675	€ 160
2000	€ 800	€ 160
2500	€ 925	€ 185
3000	€ 1050	€ 210
Above 3000		
+100	€ 25	€ 5

Since the standard of living is different in different parts of the world, and not every organization has the same financial resources, the proposed donation may be too high for some.

If this applies to you, then please contact us. We do not want to exclude motivated fellows for financial reasons. We are happy to have you on-board and accept the donation you can afford.

- Fellows
  - BE ~ SavaPage SmartSchool (2 + 10)
  - NL ~ SavaPage (1 - 1)
    - Sept 2014 ~ Apr 2015
    - Windows VDI, 30 teachers, 15 printers + Raspberry Pi
- Partners
  - BE ~ Integration Partners (1)
  - NL ~ Deployment Partners (3)
    - More Deployment Partners needed!
  - Development Partners needed!
  - Translation Partners are welcome

- Development
  - Fellow requirements
    - 2016-1Q
      - Delegated Print + Moodle Integration
  - . . .
    - More reports
    - SANE Network Scanning
- Vacancies
  - Development Partners
  - Deployment Partners

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