Printing and Payment with Papercut

Computer-Aided Engineering

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CAE Lab Statistics

- 9532 active users
- 760+ Windows lab computers
- 80+ Linux lab computers
- 20+ printers
- 7 buildings

Print stats for the 2016-2017 school year:

- Total printed pages: 859,059
- Total jobs: 204,644
- Active users in Papercut: 4,456
Print System Requirements

- User friendly for admins and end users
- Work with both Windows and Linux clients
- Use Wiscard for payment
- Work with CAE's existing authentication and identity management systems
- Hold print jobs until released by user
- Charge differently for single sided, duplex and color print jobs
- Plotter support
- Reasonably priced
Client and User Portal

CAE - Computer Aided Engineering

SUMMARY

Transaction History
Recent Print Jobs
Jobs Pending Release
Web Print
Printing at CAE
Print Refund Request
Log Out

Balance: $16.00

Environmental Impact
- 1.0% of a tree
- 3.5 kg of CO2
- 218.7 hours running a 60W light bulb

Since Feb 25, 2013

Balance History for sadkovic
Admin Portal

Dashboard

NOTICE

Do not use refresh or back/forward buttons on Quote adjustment pages. This will resubmit the form and could cause extra funds to be added or deducted.

Google Chrome selects the user’s last used printer as the default printer. Nothing we can do about it.

System Status

- **System uptime**: 630.2h
- **Users**: 9,345
- **Printers**: 142
- **Recent errors**: 0
- **Recent warnings**: 2
- **Total pages**: 5,448,507
- **Pages today**: 506
- **Hold/release jobs**: 0
- **Active user clients**: 34

Pages Printed (per day, last 30 days)

Environmental Impact

- **46.6 trees**
- **17,418 kg of CO₂**
- **1,108,776 hours running a 60W bulb**

Since Feb 25, 2023

Printer Status

- engr-dept-print/BDI066A HP Officejet Pro 8630
  - Low toner (9%)
- engr-dept-print/BDI070 Inkjet printer 02
  - Low toner (9%)
- engr-dept-print/CAE201 EPSON Stylus Pro 9880 Plotter
  - Device is offline
- engr-dept-print/CAE204 HP Color LaserJet M553
  - Low toner (9%)
- engr-dept-print/CAE211 Canon IR2525
  - Low toner (9%)
- engr-dept-print/ECB B109A HP Officejet Pro 8630
  - Low toner (9%)

News
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<td>ATTRIBUTES</td>
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<td>TOTAL JOBS</td>
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</table>
## Release Stations

### ME 1262 Print Release Station 1

<table>
<thead>
<tr>
<th>Time</th>
<th>User</th>
<th>Printer</th>
<th>Document</th>
<th>Machine</th>
<th>Pages</th>
<th>Cost</th>
<th>Action</th>
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</thead>
<tbody>
<tr>
<td>14:34:16</td>
<td>buckyb</td>
<td>nw-1262-duplex</td>
<td>Microsoft Word - ReallyImportantDo...</td>
<td>WIN-3001</td>
<td>1</td>
<td>$0.05</td>
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</tr>
</tbody>
</table>

- **User**: buckyb, Your balance: $14.95

**Print** | **Cancel** | **Done**

---

**PaperCut NG 15.0 (Build 33192)**

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**Wisconsin University of Wisconsin--Madison**
**WEB PRINT**

Select a printer:

<table>
<thead>
<tr>
<th>Printer Name</th>
<th>Location/Department</th>
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</thead>
<tbody>
<tr>
<td>CAT 116</td>
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<td>CAS 116</td>
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<tr>
<td>ERC 2100</td>
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<tr>
<td>EMR 2200</td>
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<td>FDR 217</td>
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<td>ME 1266</td>
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</table>

*Back to Active Jobs*

**WEB PRINT**

Select documents to upload and print:

*Drag files here*

The following file types are allowed:

**Application / File Type**  **File Extension(s)**
---
Microsoft Excel  | .xls, .xlsx, .xml, .xws, .xml, .wks, .wtx
Microsoft PowerPoint  | .ppt, .pptm, .pptx, .pot, .potx
Microsoft Word  | .doc, .docm, .docx, .dot, .dotm, .dotx, .rtf, .txt
PDF  | .pdf
Picture Files  | .bmp, .gif, .jpg, .jpeg, .png, .psp, .svg, .tiff, .tif

*Upload files here*

*Upload & Complete*
How Papercut Works

1. Print Job
2. Check Account/Charge
3. Approve/Deny Job
4. Print the Job

PC
Jobs Submitted Here

Engr-PRINT
Jobs Processed Here

Engr-Papercut
Accounting Processed Here

Printer
Paper Comes Out Here
CAE Print Infrastructure

Computing Devices:
- Windows
- Linux
- Laptop
- Office Computer
- Phone
- Tablet

Print Servers:
- Lab Print Server
- Departmental Print Server
- Web Print Server

Other Components:
- Papercut Server
- AD Domain
- Oracle DB
Papercut Costs

- Initial buy in (2013): ~$3300 for 10,000 users
- Blackboard Payment Gateway (Wiscard): $5000
- Maintenance: $1887 a year
- 10% of an FTE for system upgrades, maintenance, etc.
Current Issues

- Problematic drivers
- Windows 10 quirks
- Plotters are evil
- Chair to keyboard interface errors
Future Plans

- Offer service to more departments within the college
- Implement a unified print queue
- Setup Web Cashier for non-print related Wiscard transactions
- 3D printers
- Offer alternatives to printing
Questions?