

Print Management Project

An innovation in printing sustainability



Discovery of the problem

- Survey and comparison of LCC printing with other colleges and universities revealed the following:
 - **Device utilization was 54.7 % of average**
 - **Cost per image was 181% of average**
 - **Print usage was 211% of benchmark college per employee rates**
- Improper Incentives
 - **Our existing systems make the most expensive option for printing appear less expensive and the least expensive appear more expensive**
- General lack of information and awareness

Reasons for finding a Solution

- Expand options for users
 - Provide color printing options for students, faculty and staff
 - STOP limiting the amount of printing that students are allowed to do in open lab areas
 - Provide other options to students, faculty and staff
 - Provide scanning options for free to all
- Link cost of choice to user – raise awareness
- Provide better information to user so they can make an informed choice for output – raise awareness
- So that we can “Walk the Talk” on Sustainability

WHY PAPER CUT MF?

Because Papercut MF can:

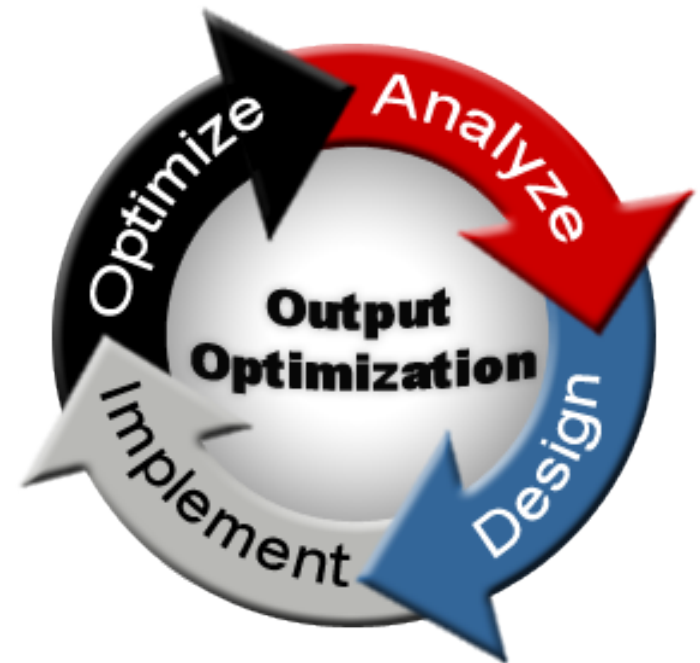
- Track Printing, Copying, Scanning and Faxing
- Provide reports on usage
 - helps facilitate charge backs to departments or cost centers
- Provide secure print release and find-me printing
- Provide a way to authorize device access
 - can only use device after card swipe or proper login
- Help us to implement Print Guidelines to be more sustainable and raise awareness:
 - Ask users to confirm single-sided printing
 - Ask users if they really need to print the item
 - Ask users to confirm need to print in color
 - Provides option to route large jobs to dedicated high volume printers.
- Monitor devices:
 - Email/SMS administrators on printer errors to assist with prompt response
 - To verify if printers are being utilized sustainably



WHY PAPER CUT MF?

Additional Reasons

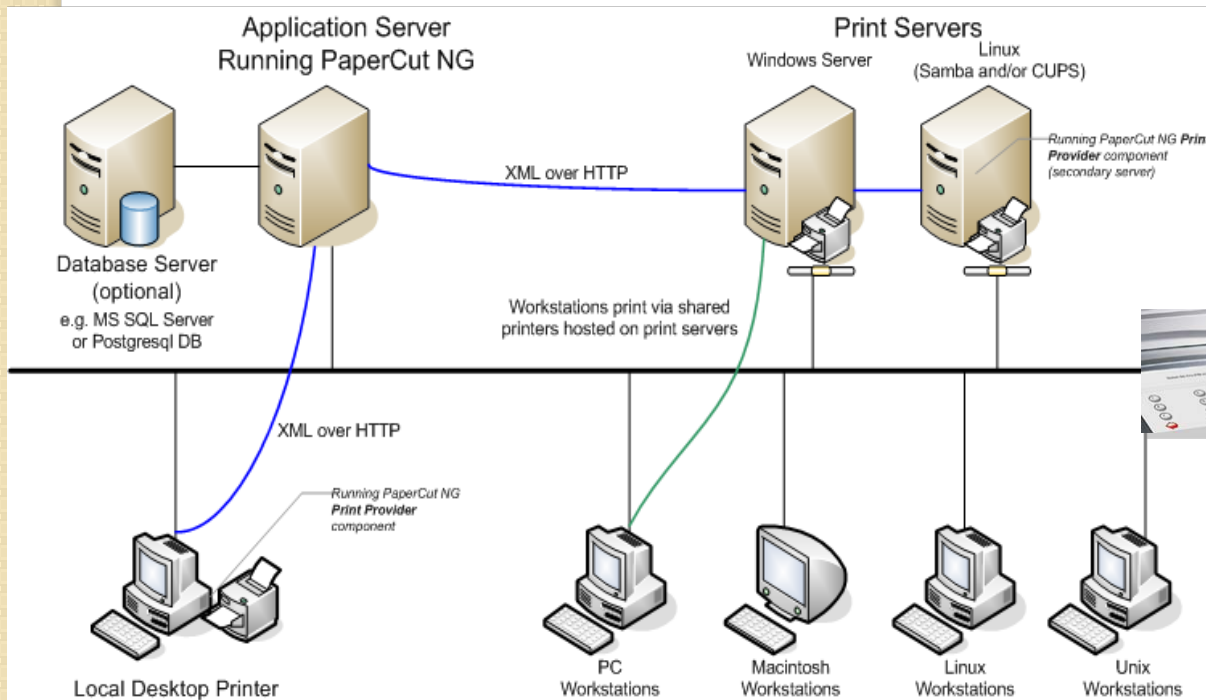
- Provides a simple method to manage copy, print, scan and fax, usage and access
- Automatically detects and tracks all existing print queues (MFPs and Printers)
- Requires minimal Administration (e.g. define creation rules for new users)
- Cross-Platform and Vendor Neutral – Windows, Linux, Mac and Novell



PAPERCUT IS CROSS PLATFORM



User Balance Windows

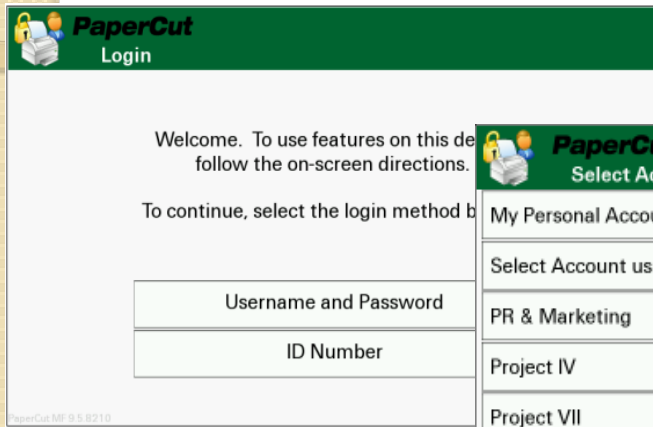


User Balance Mac



PAPERCUT MF ON-BOARD

Login or Card Swipe



PaperCut
Login

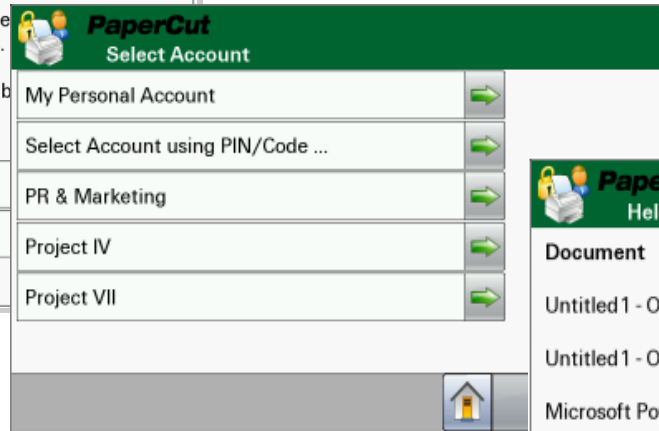
Welcome. To use features on this device, please follow the on-screen directions.

To continue, select the login method below:

Username and Password
ID Number

PaperCut MF 9.5.9210

Select Account Options



PaperCut
Select Account

My Personal Account	➔
Select Account using PIN/Code ...	➔
PR & Marketing	➔
Project IV	➔
Project VII	➔

Home icon at the bottom.

Release Print Jobs



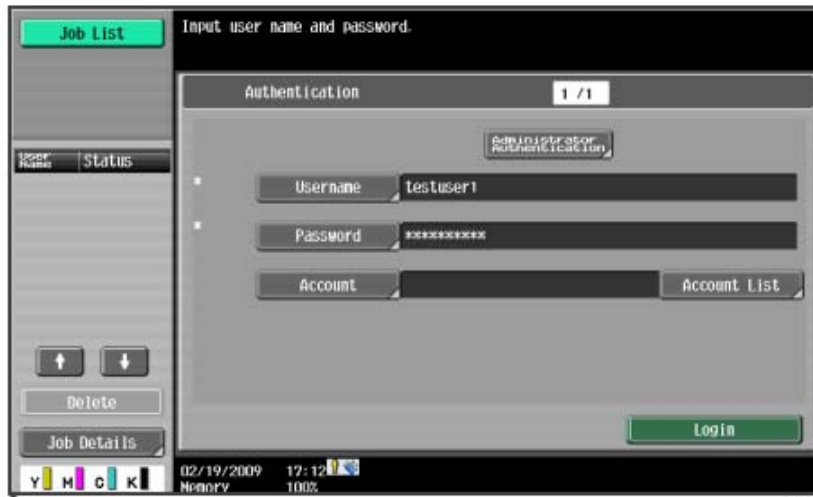
Document	Pages	Cost	Release	Cancel
Untitled1 - OpenOffice.org Writer	248	\$24.80	➔	⬆
Untitled1 - OpenOffice.org Writer	222	\$22.20	➔	
Microsoft PowerPoint - Presentation	89	\$8.90	➔	
Microsoft Word - list.doc	91	\$9.10	➔	
Untitled1 - OpenOffice.org Writer	184	\$18.40	➔	⬇

1/2

Refresh button and Home icon at the bottom.



PAPERCUT MF ON-BOARD



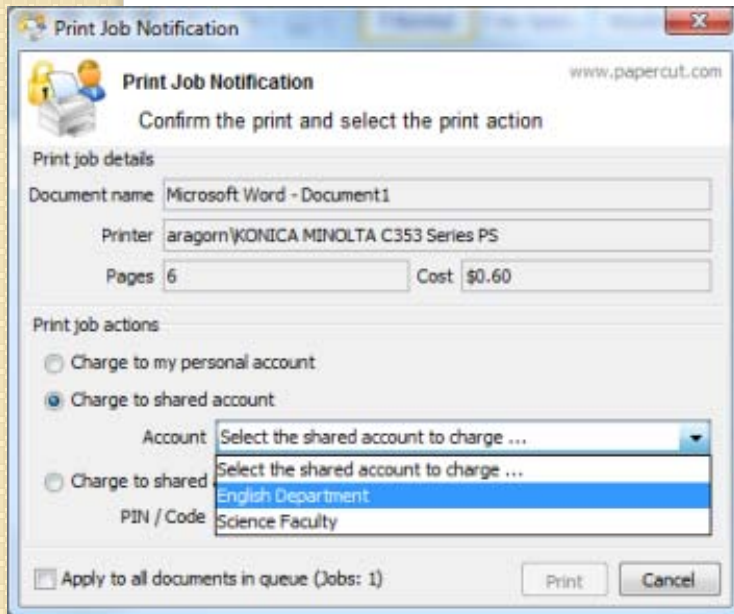
MF On-board / Embedded:

- MFP and selected Printers supported
- A fully featured solution
- Copy, print, scan and fax control
- Secure “Find Me” print support
- Access via login or USB Reader
- Certified and trusted

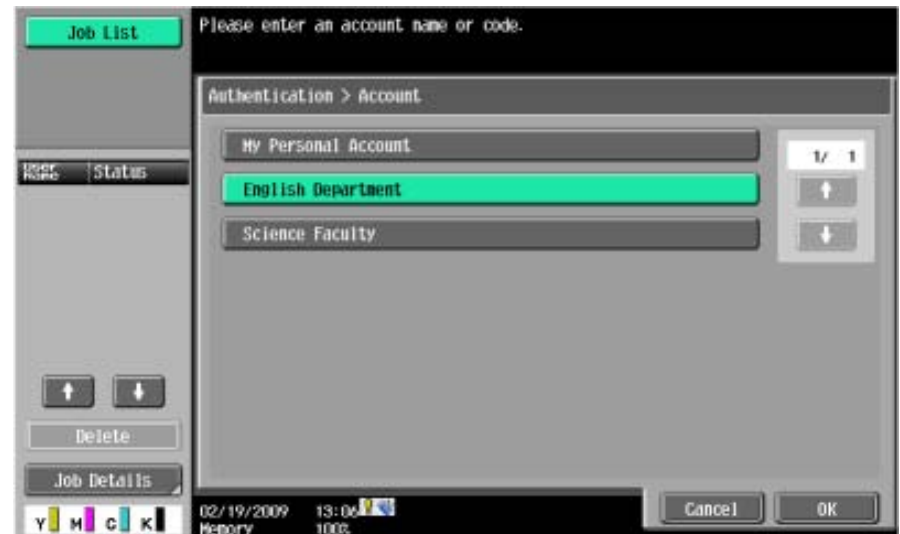


PAPERCUT MF ON-BOARD

Charging to a shared account while copying

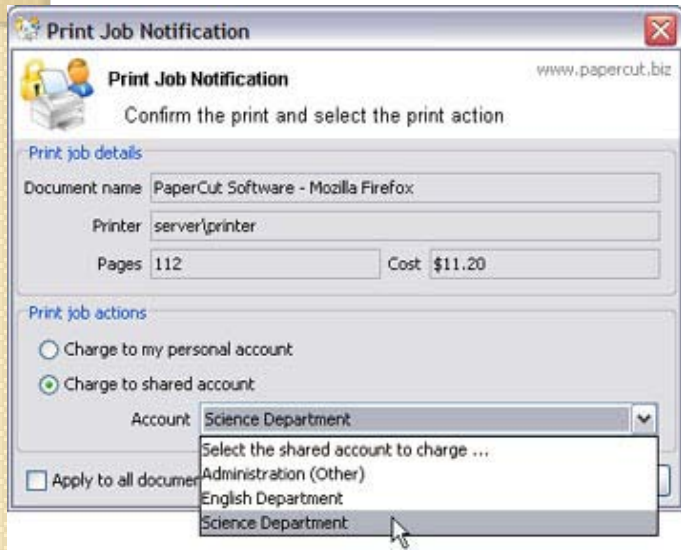


Charging to a shared account while printing from a workstation



TRACKING DEPARTMENT/PROJECT

Standard Client Billing



Print Job Notification www.papercut.biz

Confirm the print and select the print action

Print job details

Document name: PaperCut Software - Mozilla Firefox

Printer: server\printer

Pages: 112 Cost: \$11.20

Print job actions

☐ Charge to my personal account

☒ Charge to shared account

Account: Science Department

☐ Apply to all documents

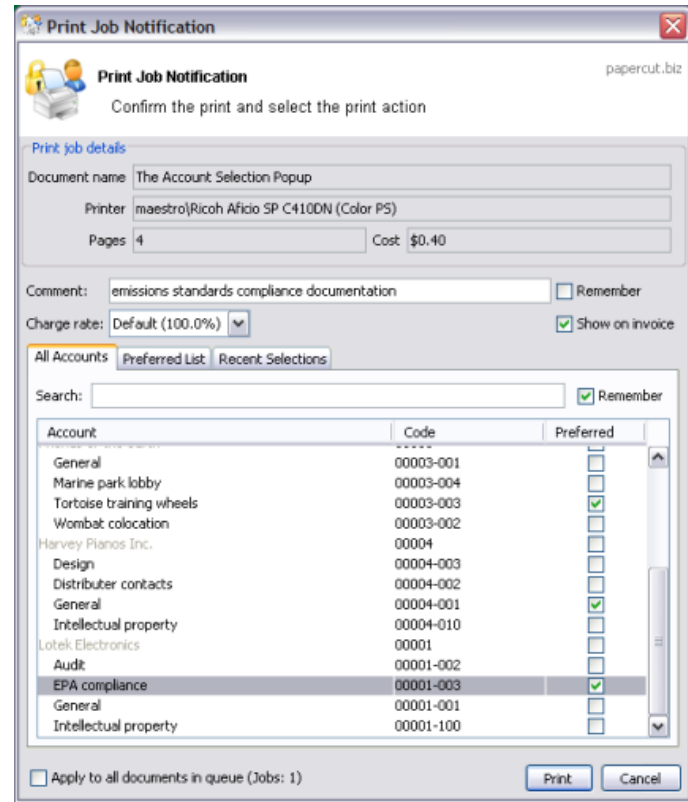
Select the shared account to charge ...

- Administration (Other)
- English Department
- Science Department

Charge to Shared Account:

- Department / Faculty
- Client / Job Code

Advanced Client Billing



Print Job Notification papercut.biz

Confirm the print and select the print action

Print job details

Document name: The Account Selection Popup

Printer: maestro\Ricoh Aficio SP C410DN (Color PS)

Pages: 4 Cost: \$0.40

Comment: emissions standards compliance documentation ☐ Remember

Charge rate: Default (100.0%) ☒ Show on invoice

All Accounts Preferred List Recent Selections

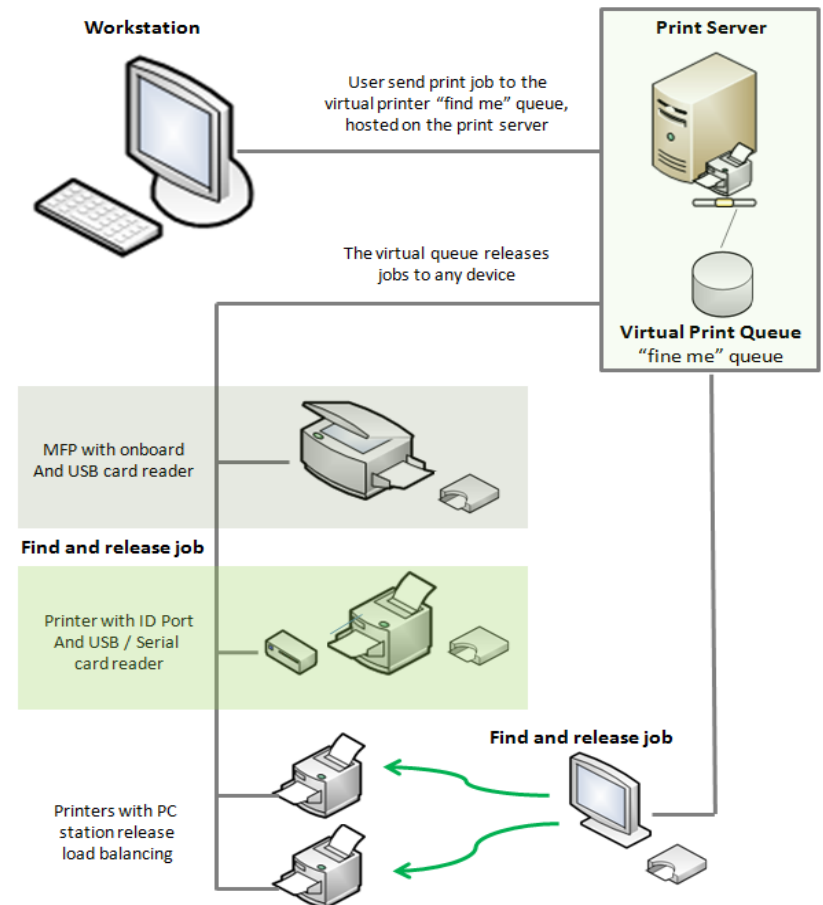
Search: ☒ Remember

Account	Code	Preferred
General	00003-001	<input type="checkbox"/>
Marine park lobby	00003-004	<input type="checkbox"/>
Tortoise training wheels	00003-003	<input checked="" type="checkbox"/>
Wombat colocation	00003-002	<input type="checkbox"/>
Harvey Pianos Inc.	00004	<input type="checkbox"/>
Design	00004-003	<input type="checkbox"/>
Distributor contacts	00004-002	<input type="checkbox"/>
General	00004-001	<input checked="" type="checkbox"/>
Intellectual property	00004-010	<input type="checkbox"/>
Lotek Electronics	00001	<input type="checkbox"/>
Audit	00001-002	<input type="checkbox"/>
EPA compliance	00001-003	<input checked="" type="checkbox"/>
General	00001-001	<input type="checkbox"/>
Intellectual property	00001-100	<input type="checkbox"/>

☐ Apply to all documents in queue (Jobs: 1)

“FIND ME” RELEASE ANYWHERE PRINTING

1. Send print job to virtual print queue
2. Go to any PaperCut enabled device
3. For MFPs with on-board embedded:
 1. Login via device touch screen or card
 2. Find specified job / view / release
4. For Printers (without embedded):
 1. Login via card (network card reader)
 2. All held jobs are released
5. Optional full screen release station software (popular in college print rooms)



Benefits to Lane

- Simplifies purchase and distribution of paper and toner
 - No longer any need for separate “stashers” by cost center
 - Cost only incurred when print put on paper
- Users will have more options for printing
- Students will be able to copy, scan, and print in color in some locations
- Cost of scanning will be covered by paper output to promote use
- Cost for printing will be borne by those who choose/need to print, and that decision will be an informed decision
- Options for output will be available to help minimize costs for users as well as support sustainable practices

Return on Investment

Research shows that colleges and universities that implement such systems cut printing costs by 20% to as much as 50%.

If we cut printing by 25%:

- Savings for current printing costs over 5 years
 - Current black and white printing costs: \$8,415,000
 - Current color printing costs: \$1,072,500
 - **Current total printing costs: \$9,487,500**
 - Black and white printing costs with PaperCut: \$6,311,250
 - Color printing costs with PaperCut: \$804,375
 - Purchase of Papercut and Annual Maintenance: \$125,000
 - **Total printing costs with PaperCut: \$7,240,625**
 - **Total savings over 5 years: \$2,246,875**
- Environmental Savings over 5 years*
 - 1,053.5 trees saved
 - 729,366kg less Carbon Dioxide
 - Enough energy saved to run a 60W light for 2,743.1 years

(* calculations based on information from the EPA and US Department of Energy)

Reasons to Implement

Solves problems and provides benefits

- Increase efficiency in the use of our installed equipment
- Aligns incentives with sustainable practices
- Raises awareness and accountability
- Output Costs and decisions linked
- Expands output options for all
- Lowers costs
- Allows Lane to “Walk the Talk” of sustainability

THANK YOU FOR YOUR TIME

As Kermit would say, “It isn’t easy being green” – but it IS worth it!

