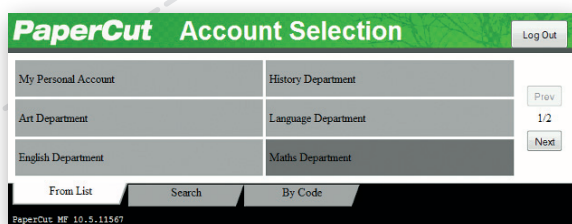


Complete control over print, copy, scan and fax

PaperCut MF is a simple, low cost software application that lets you take control and manage your printing, copier and MFD use.

PaperCut MF is a simple to install and use copier and print management application. Its features eliminate waste, encourage responsible behavior and make users and departments accountable for their usage. PaperCut MF includes embedded software that runs on your copier/MFD to enable tracking, control and secure print release directly from the device's panel.

PaperCut MF is easily configured and is suitable for sites of any size regardless of environment, platform or MFD/printer make and model. PaperCut's solutions are currently in use in over 30,000 sites worldwide and translated into 20 languages, making PaperCut MF a product you can both trust and easily afford.



Benefits of PaperCut

- **Control costs**
for every copy, print, scan and fax
- **Centrally manage**
MFDs/printers and users from a simple web interface
- **Report and Recover**
costs by user, department, project, cost center, device and function
- **Secure Access**
via login, ID number or access card
- **Enforce**
responsible use via rules, limits and popup notifications
- **Enable**
secure print release and *Find-Me* printing
- **Vendor Neutral**
supporting all major operating systems and devices



SUPPORTED PLATFORMS

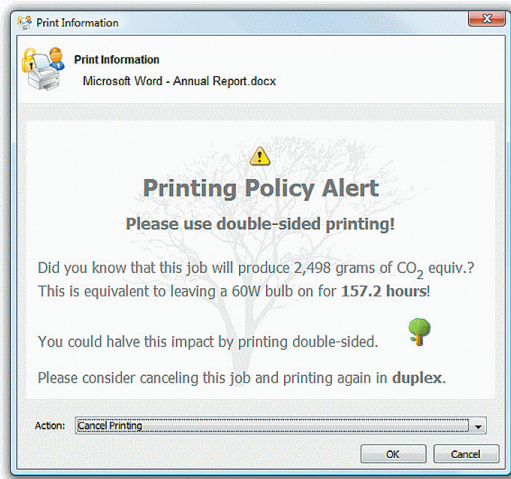
sales@papercut-mf.com
www.papercut-mf.com

Why PaperCut MF?

Intuitive and Easy to Use

PaperCut MF is regarded as the simplest system of its type to deploy and manage. System administrators have full access to administration and configuration via a familiar web interface. It offers:

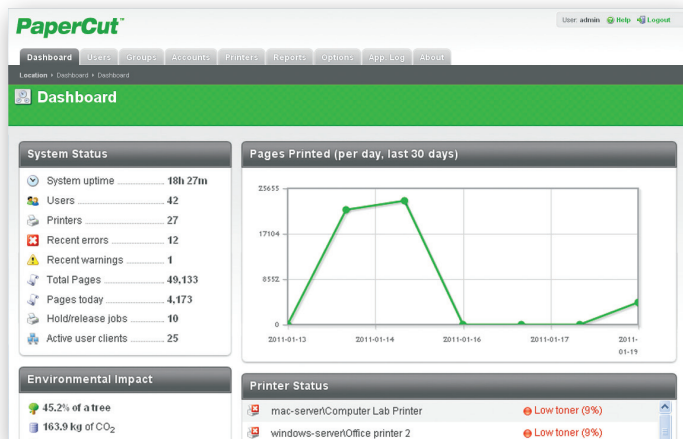
- User directory (eg. Active Directory and others) integration and automatic user account creation
- Secure print release and *Find-Me* printing
- Administrator dashboard with real-time status updates
- Web Print: Driverless printing for wireless devices
- Optional client and account billing
- Ability to encourage responsible use via popup notifications



Web Based Administration

PaperCut MF provides “out of the box” browser-based administration access from any network location enabling centralised management of every user and device. Web technologies make cross-platform support easy as there is no need for additional software to be installed and no web server configuration.

A key feature of the administration interface is the dashboard tab – an easy-to-read single page view of the printing environment for administrators. The Dashboard page utilises a number of gadgets to present key real time information such as system activity and status updates, along with trend information and statistics from past activity such as number of pages printed and environmental impact measures.

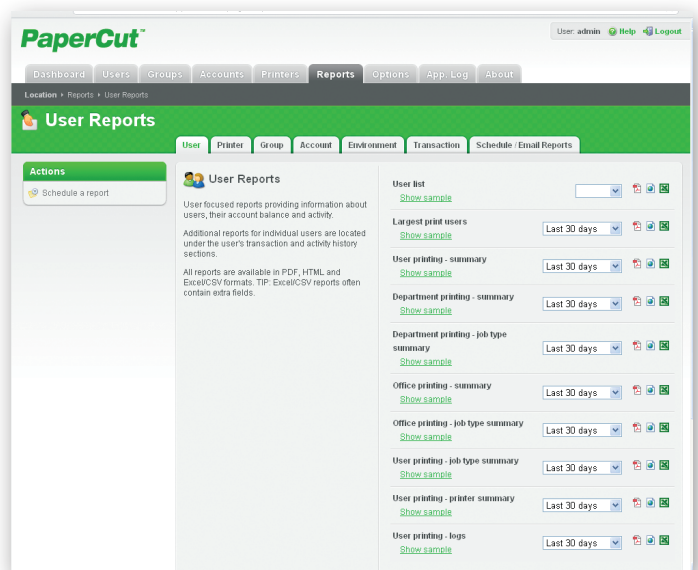


Detailed Reporting



PaperCut includes over 50 one-click reports available for online viewing, printing or export. Reports address all areas ranging from detailed page logs to summaries by user, department, device or environmental impact. Administrators can create ad-hoc reports by applying filter conditions and reports can be emailed to specified people on a regular schedule.

More information is at www.papercut.com/tour/report/



Powerful Job Scripting

Advanced scripting can be used to define and finely tune your printing policy, and support your organization in eliminating waste and changing user behavior.

With PaperCut you can:

- Automatically route large jobs to detected high volume printers
- Discourage printing of emails via popup print policy warnings
- Encourage double sided printing
- Discourage or disable color printing by user group
- Least cost routing (suggest more cost effective devices based on conditions)
- Allow free printing (e.g. during class times)
- Define action by job attribute, user / group, period of day, device feature / type.

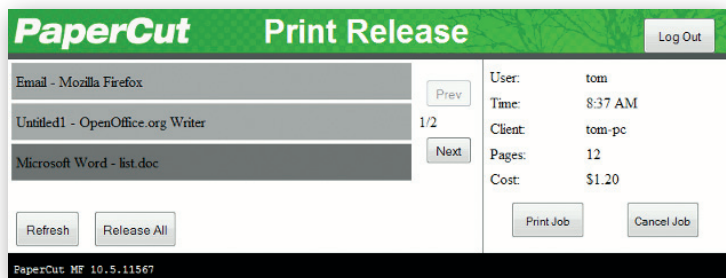


See environmental impact at a glance with the Paper-Less Alliance widget

Secure Print Release

PaperCut's *Find-Me* printing feature enables users to print to a global virtual queue. Jobs are paused and only printed when the user releases the job at any compatible MFD/printer:

- Improved document security and convenience.
- Reduce IT administrators need to manage multiple print drivers and queues for both workstations and notebooks.
- Find-Me* printing minimizes waste and has been shown to reduce printing output by up to 20% in busy office environments.
- Support for multiple release methods ranging from auto release on authentication to active release job-by-job.



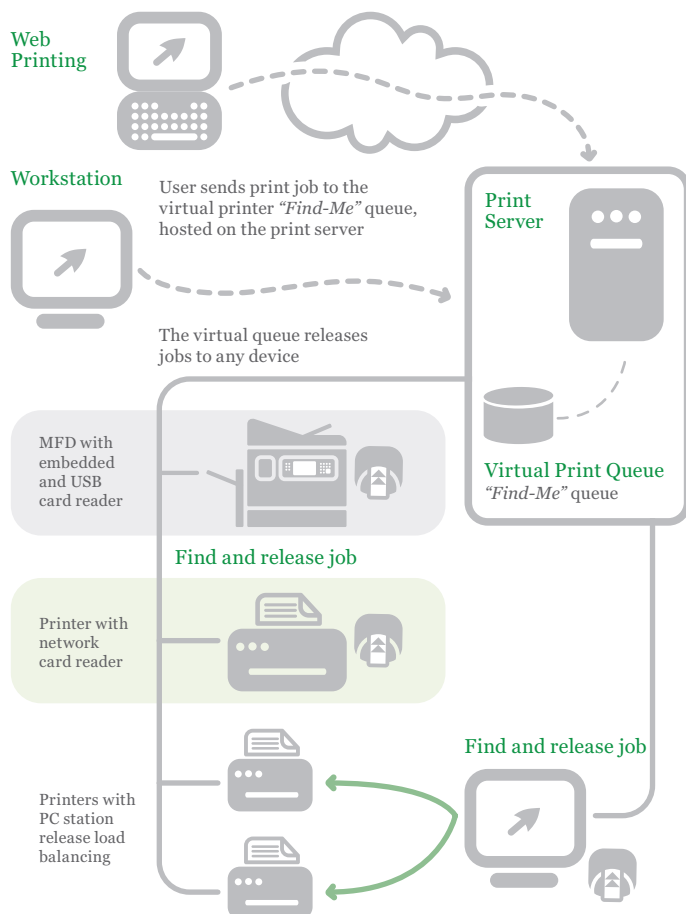
End users can view and manage held print jobs at the MFD

Secure Device Access

Today's MFDs are smarter. They have touch screens and the ability to run software directly on the device's panel. PaperCut leverages this technology to bring new features to each device.

One of the key features is user authentication – only allowing device access to authorized users. At the simplest level users can authenticate with network username and password via an onscreen keyboard. In addition many environments will implement ID card authentication. Card numbers can be extracted from your network's user directory or a database (e.g. door access control system), alternatively users can self-associate their card on first-use.

Card types include magnetic stripe, proximity (HID, Mifare & Legic) and bar codes, and PaperCut supports many brands of USB card readers including RFIdeas, Elatec and OmniKey. Off the shelf standard USB and network card readers are available from leading suppliers. PaperCut have a global network of hardware experts (Authorized Solutions Centers) should you require technical assistance, advice or onsite support of both software and hardware.



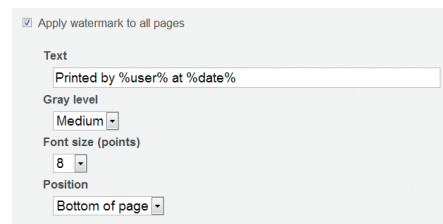
A global print queue provides convenience for end users and helps keep documents secure

Driverless Web Printing

Web Print has the potential to enable wireless and driverless printing from any mobile device, including laptops and netbooks. Combined with PaperCut's *Find-Me* printing feature, users can securely release their job from any supporting MFD/Printer. Web Print is simple to deploy and use and is fully integrated into PaperCut's standard print charging, accounting and quota account methods.

Watermarking and Digital Signatures

Watermarking allows you to automatically add a username or other metadata to the bottom of every page e.g. to indicate the document owner. Watermarking may include a unique digital signature which allows you to track document origin to enhance security and encourage responsible printing.

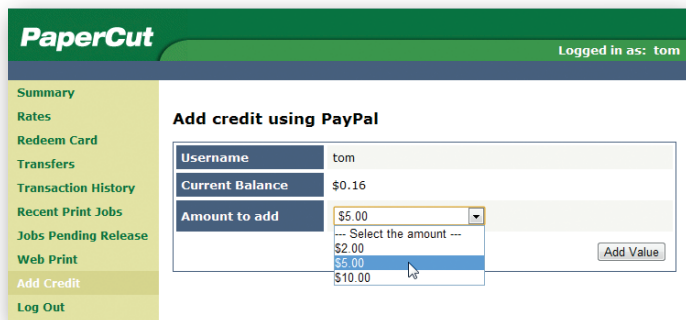


Printed by sally at 08/03/2011 3:46:43 PM (659d08164bd030cf4b7d968acab02e0)

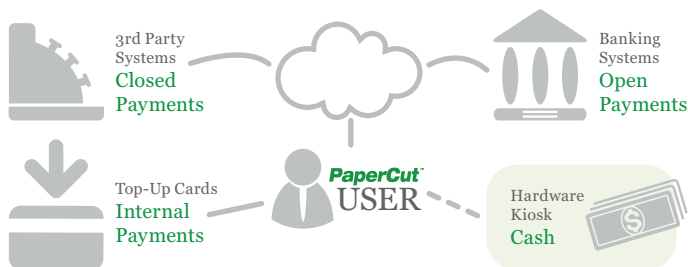
PaperCut in Education

Payment Gateways

Give end users the ability to make payments into their PaperCut account using payment gateways. Payment gateways allow third party systems to connect to PaperCut in a supported manner. Common gateways include leading providers like PayPal and Authorize.Net which allow real-time online payments via credit card. PaperCut also supports closed or internal payment systems such as a main college funds account. Hardware gateways are available to support a range of cash loaders, self-service kiosks and bill and coin boxes. For hardware, please refer to a PaperCut MF Authorized Solution Center.

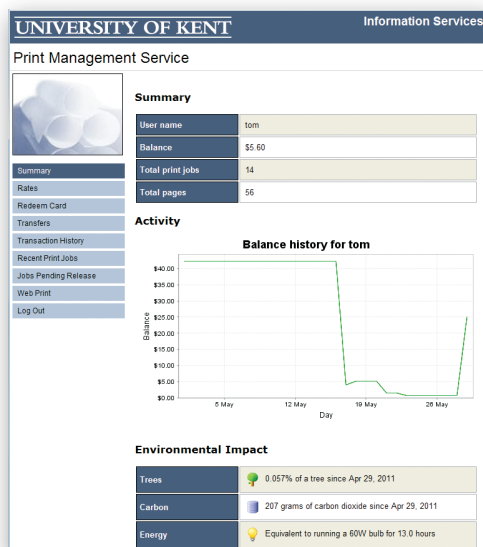


End users can easily manage their account balances and add credit via online and onsite methods



User Web Interface

End users have access to a set of web tools to track their own activity in real-time, query their account balances, and view their transactions – without the need for intervention from administrators. The end user interface is fully customizable, so you can design a look and feel to match your website or intranet pages.



Managing Quotas

Users can operate in either credit or debit, with defined account rules including how and how often an account is credited. Use network groups to define how additional quota/credit is assigned. Use network groups to define how additional quota/credit is assigned; for example, allow a specific group of users to accumulate their quota while others operate on a “use it or lose it” basis.

Pre-Paid/Top-Up Cards

PaperCut MF comes with a simple to implement voucher system for purchasing additional print credit. Administrators can print out a batch of single-use cards with a pre-defined value. Users redeem cards by entering the card's unique code on a web page.

Technical Specifications

Scalability:

- Suitable for networks of 5 to 500,000+ users

Architecture:

- Single server or multi-server environments
- Monitor locally attached printers
- Client software is optional
- Available in 20+ languages and currency formats world-wide

Licensing:

- Enterprise-wide license: unlimited printers, servers, and workstations
- Licensed based on number of end users, plus a per-device license for MFD's running embedded software
- Premium Upgrades Assurance included for first 12 months

Open Systems:

- Open documented database schema
- XML Web Services API with sample code

Supported Server Operating Systems:

- Microsoft Windows Server (any edition including 64-bit and server core)
- Mac OS X Server (10.4 or higher)
- Linux (any modern distribution)
- Novell OES Linux and iPrint

Supported User Directory Services:

- Active Directory (native integration including nested groups and OU's)
- OpenDirectory
- eDirectory
- LDAP
- NIS, PAM, Samba, and others.

Supported Workstation Operating Systems:

- Microsoft Windows (any edition)
- Mac OS X (10.4 or higher)
- Linux (any modern distribution)
- Unix Workstation (Java required to run client software)

MFDs/Printers:

- Almost all major digital laser, inkjet and wide format devices supported
- Supported print languages: PCL, PCL6, HPGL, Postscript, PCL-GUI, Ricoh RPCS, Epson ESC, QPDL, various GDI printers and many languages that don't even have names

Supported Database Servers:

- Self managing internal database: suitable for up to 5,000 end users
- Microsoft SQL Server 2000/2005/2008 (either 32 or 64 bit)
- Microsoft SQL Express 2005/2008 (free from Microsoft)
- PostgreSQL 7.1 or higher
- MySQL 5.0 or higher
- Oracle 9.2 or higher

Supported Cluster Environments:

- Microsoft Failover Server
- Microsoft Cluster Server
- Veritas Cluster Server
- Linux HA

Encryption:

- SSL encryption used for sensitive client server communication.

The Copier
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Hotline: 1700 81 4588

www.thecopier.com.my

PaperCut MF for Business

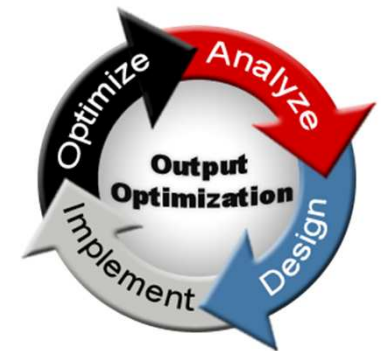
Why PaperCut MF?

- Track Print, Copy, Scan and Fax
- Report on usage (e.g. charge back to departments or cost centers)
- Secure print release and find-me printing
- Authorize device access (e.g. only use device after card swipe)
- Implement Print Policies to save:
 - Ask users to confirm single-sided printing.
 - Should you be printing this email?
 - Did you mean to print this web page in color?
 - Route large jobs to dedicated high volume printers.
- Monitor devices:
 - Email/SMS administrators on printer errors
 - Are your printers being utilized correctly?



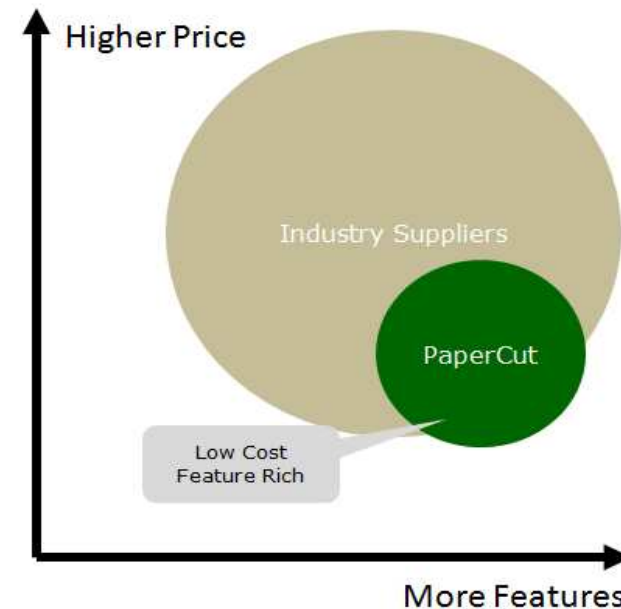
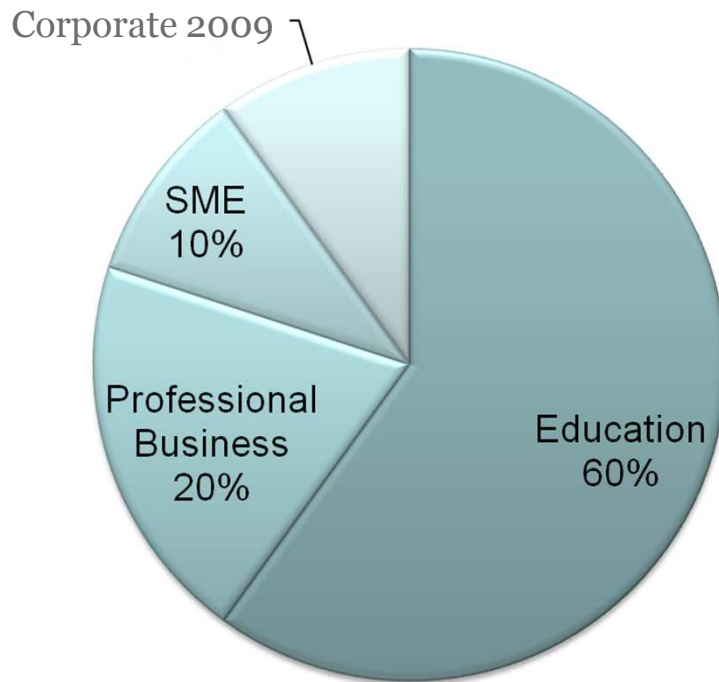
Why PaperCut MF?

- A Simple method to manage copy, print, scan and fax, usage and access
- Easy to install and administer, e.g. “click next” and follow prompts
- Import user information via popular user directories (AD, LDAP, etc.)
- Automatically detects and tracks all existing print queues (MFPs and Printers)
- Minimal Administration (e.g. define creation rules for new users)
- Cross-Platform and Vendor Neutral – Windows, Linux, Mac and Novell
- Optimized for self download, install, setup and administration
 - Leverage your in-house staff and skills
 - No expensive training
 - No expensive setup or configuration consulting
 - How did you get your backup software? Why is print software any different?

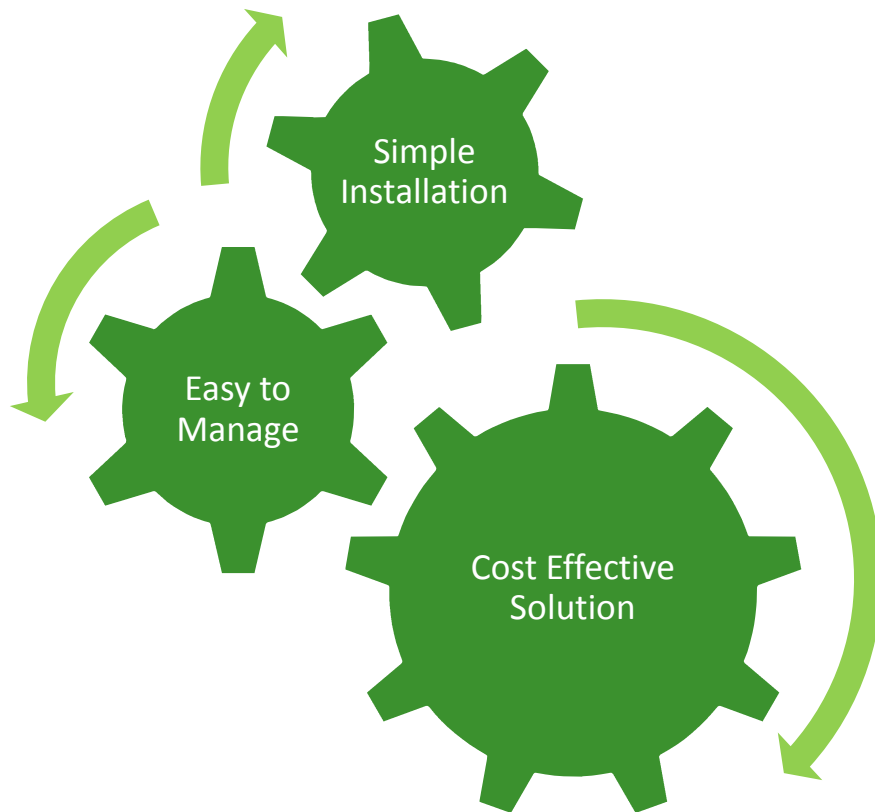


Market Position - #1 Education

Education has traditionally been PaperCut's largest and quickest growing market, however due to onboard functions and "Find Me" secure print, Corporate is PaperCut MFs largest growth market.



MF On-Board



PaperCut MF Onboard MFP Solutions:

- 100% PaperCut
- Leverages the MFP's power
- A lower cost than hardware solutions
- Easy to install and support
- Part of our core PaperCut software
- Enables single supplier arrangement
- Certified and trusted
- Platform independent

MF On-Board



MF Onboard / Embedded:

- Quick and simple to install
- 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

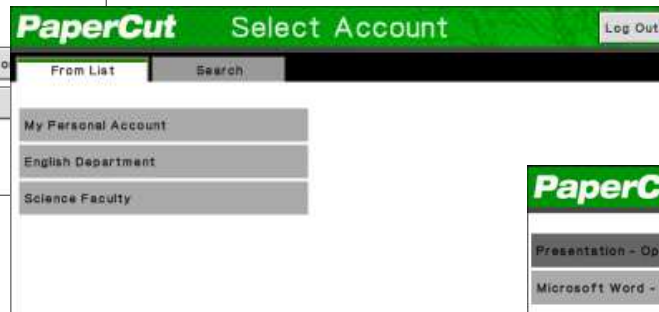


MF On-Board

Login or Card Swipe



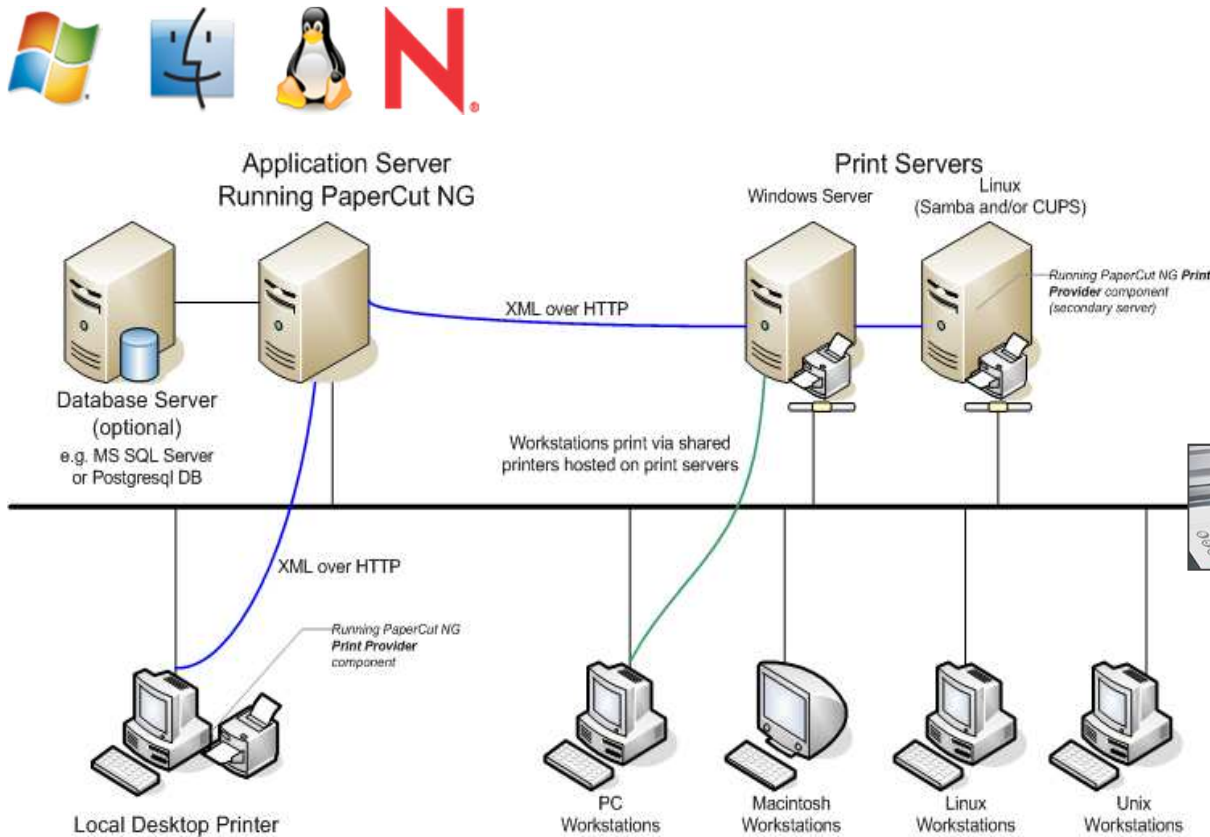
Select Account Options



Release Print Jobs



MF Cross Platform



User Balance Windows

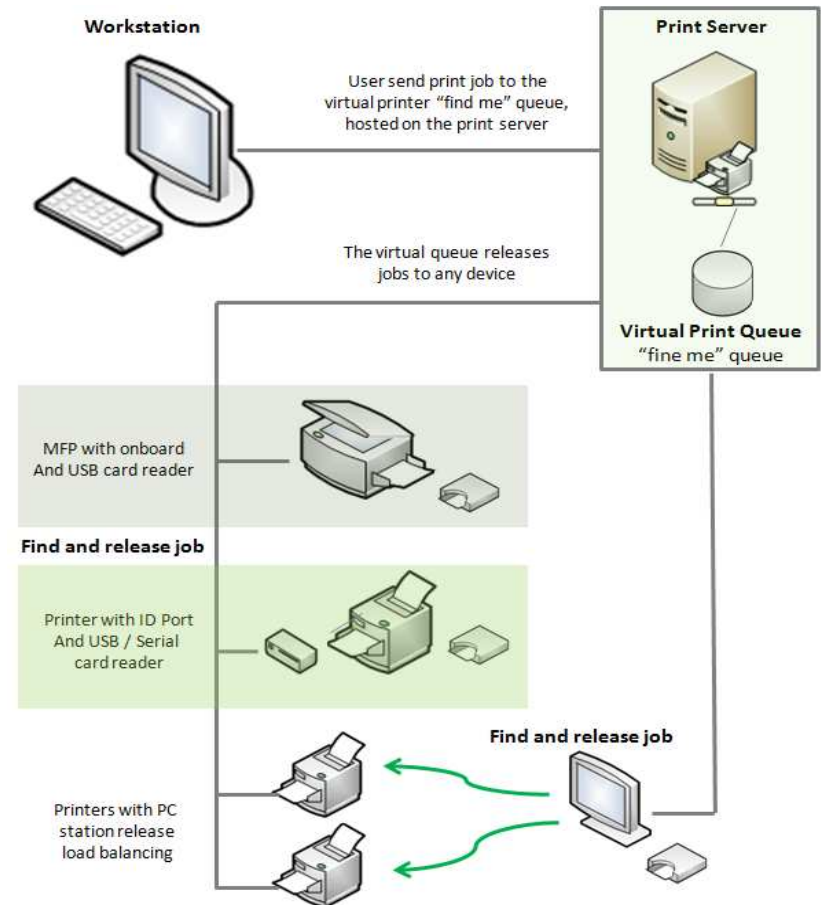


User Balance Mac



“Find Me” Release Anywhere Printing

1. Send print job to virtual print queue
2. Go to any PaperCut enabled device
3. For MFPs with onboard 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)



Scripting

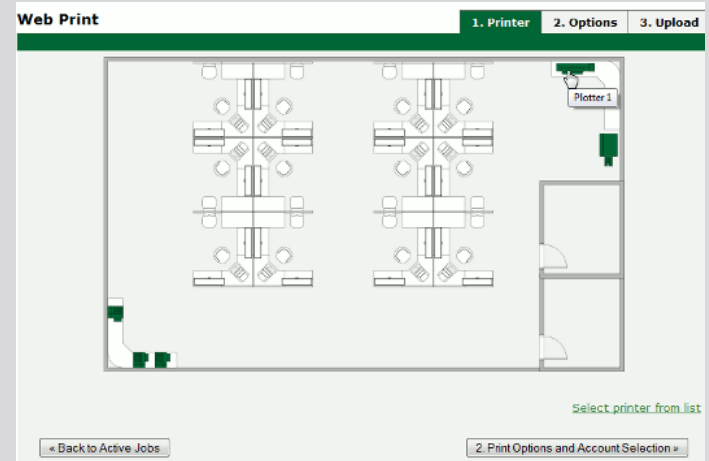
Web Print

Customize Print Policy and Workflow

- Write your own scripts as required
- Choose a pre-written script (recipe)
- Define action by job attribute
- Define action by user / group
- Define action by period of day
- Define action by device feature / type
- All actions are notified to the user
- Typical Uses:
 - Send large jobs to appropriate device
 - Send colour jobs to specific device
 - Suggest lower cost printers
 - Send jobs with X attribute to Print Room
 - Allow free printing between A – B hours
 - Prompt to select duplex or grayscale

100% Driverless and Client Free

1. Printers defined and mapped
2. User select printer
3. Web Print renders map / printers
4. Define options to charge / bill
5. Upload file (PDF, XPF, DOC, XLS, PPT)



Reporting

User Reports

User Printer Group Account Environment Transaction Schedule / Email Reports

- Over 50 standard reports
- Snapshot report preview feature
- View in PDF, Excel, HTML formats
- Auto Schedule & email reports



Desktop Widget

User list				
Show sample				
Largest print users	Last 30 days			
Show sample				
User printing - summary	Last 30 days			
Show sample				
Department printing - summary	Last 30 days			
Show sample				
Department printing - job type summary	Last 30 days			
Show sample				
Office printing - summary	Last 30 days			
Show sample				
Office printing - job type summary	Last 30 days			
Show sample				
User printing - job type summary	Last 30 days			
Show sample				
User printing - printer summary	Last 30 days			
Show sample				
User printing - logs	Last 30 days			
Show sample				

User/Group Synch

Sync directly with: AD, e-Dir, LDAP, Open Dir, NIS, PAM, Samba, more...


User List

Actions

-  Bulk user actions ...
-  Export/Print
-  User printing - summary (last 30 days)
-  Batch import ...

Quick find: Go Clear

 **Show Filter**

« 1 2 »

	Username ▲	Full Name	Balance	Restricted	Pages	Jobs
	administrator		-\$565.10	No	46,154	422
	andrea	Andrea McFann	\$0.12	Yes	15,881	153
	bill	Bill Hink	\$0.86	Yes	16,013	152
	bob	Bob Picado	\$0.00	Yes	16,723	154
	cathy	Cathy Shumake	\$0.11	Yes	16,236	157
	charles	Charles White	\$0.39	Yes	15,117	139
	chris	Chris Nacci	\$1.02	Yes	15,857	152
	claire	Claire Hutch	\$0.67	Yes	17,961	141
	quest		\$0.00	Yes	0	0
	harry	Harry Sloat	\$0.69	Yes	16,357	157

Set Group Policies

Define / Import users with initial settings e.g. quotas or credit limits

Dashboard
Users
Groups
Accounts
Printers
Devices
Reports
Options
App. Log
About

Location > Groups > Group Details


Group Details: Users

Actions

-  Reset member statistics
-  Adjust member balances
-  Set member balances
-  Change member restrictions
-  Other bulk user actions

Details

The group or organization unit's name.

Group name
Users

Member count
3 ([show members](#))

Quota Scheduling

Quota can be added to users' accounts on a scheduled basis either daily, weekly or monthly.

If 'Only allow accumulation up to' is not selected, the user's balance will accumulate indefinitely.

If 'Only allow accumulation up to' is selected, the user's balance will only accumulate to the amount specified.

Period
None/Disabled ▼

Schedule Amount
\$0.00

☐ Only allow accumulation up to:
\$0.00

New User Settings

New user settings help streamline the setup of new future users.

These settings are automatically applied to new users created that belong to this group. These settings do NOT affect existing user accounts.

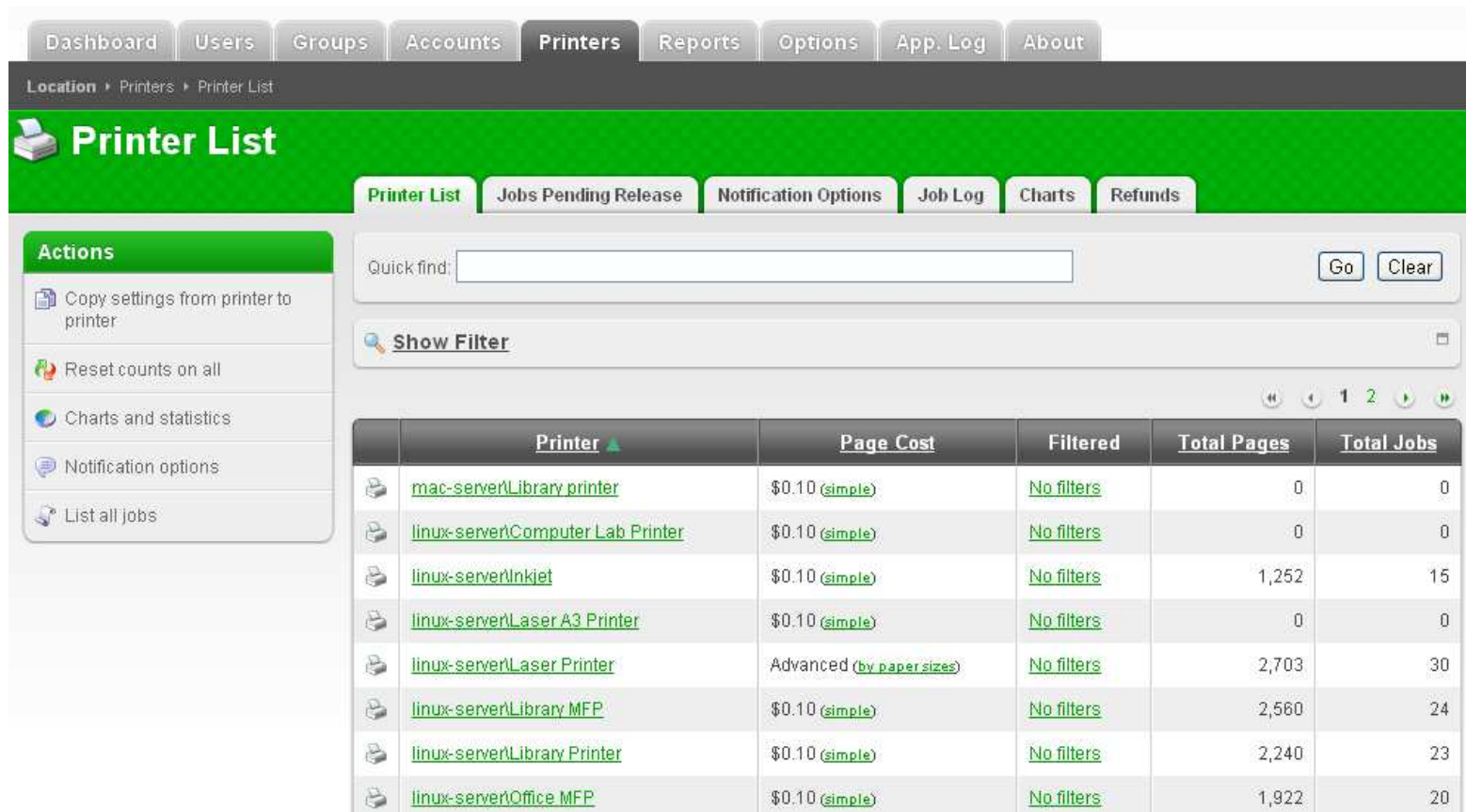
☐ Use this group to define new user settings

OK
Cancel
Apply

Created by admin on May 5, 2011 2:48:20 PM
Last modified by admin on May 5, 2011 2:48:20 PM

Apply Template Printer

Configure [Template Printer] and auto-apply settings across all printers within minutes



The screenshot shows the PaperCut web interface. At the top is a navigation bar with tabs: Dashboard, Users, Groups, Accounts, **Printers**, Reports, Options, App. Log, and About. Below this is a breadcrumb trail: Location > Printers > Printer List. The main header is green and says "Printer List" with a printer icon. Below the header are tabs: **Printer List**, Jobs Pending Release, Notification Options, Job Log, Charts, and Refunds. On the left is a sidebar with an "Actions" section containing: Copy settings from printer to printer, Reset counts on all, Charts and statistics, Notification options, and List all jobs. The main content area has a "Quick find:" search bar with "Go" and "Clear" buttons, and a "Show Filter" button. Below this is a table with 6 columns: Printer, Page Cost, Filtered, Total Pages, and Total Jobs. The table lists 8 printers with their respective settings and job counts.

	Printer ▲	Page Cost	Filtered	Total Pages	Total Jobs
	mac-server/Library printer	\$0.10 (simple)	No filters	0	0
	linux-server/Computer Lab Printer	\$0.10 (simple)	No filters	0	0
	linux-server/Inkjet	\$0.10 (simple)	No filters	1,252	15
	linux-server/Laser A3 Printer	\$0.10 (simple)	No filters	0	0
	linux-server/Laser Printer	Advanced (by paper sizes)	No filters	2,703	30
	linux-server/Library MFP	\$0.10 (simple)	No filters	2,560	24
	linux-server/Library Printer	\$0.10 (simple)	No filters	2,240	23
	linux-server/Office MFP	\$0.10 (simple)	No filters	1,922	20

Live Point-in-time Backups

Pre-Configure backups, scheduled run time, back up history automatically

Dashboard
Users
Groups
Accounts
Printers
Devices
Reports
Options
App. Log
About

Location > Options > Backups

Backups

General
Notifications
User/Group Sync
Admin Rights
Backups
Advanced

Actions

- Notification options
- Printing notifications
- Synchronize users
- Assign admin access
- Config editor (advanced)

Backups

When database backups are performed the export file is saved in the location specified.

Backup location
C:\Program Files (x86)\PaperCut MF\server\data\backups

Backup last run
Apr 3, 2011 12:20:04 AM

Please only run backups during periods of low activity.

Backup Now

Automatic Backups

Automatic backups create a weekly snapshot of the system's database.

☒ Enable automatic weekly backups

Keep backups for
30 days

After the automatic backup delete old data

☐ Delete print logs older than 365 days

☐ Delete account transaction logs older than 365 days

☐ Delete application logs older than 365 days

Apply

Web Admin Rights

Administering sites can be shared based on staff function and responsibility with the required administration access rights set and defined within PaperCut.

Assign admin authority
by staff job function

Access can be granted from any location via the Web Admin interface.

Rights

By default administrators have access to all functions. Use the show/hide details link on the left to set individual access rights.

Management (Group)

[\[show/hide details \]](#) [\[remove \]](#)

- ☐ Access users section
 - Allow access only to this group:
 - ☐ Change user settings
 - ☐ Perform bulk user actions
- ☐ Access groups section
- ☐ Access shared accounts section
 - ☐ Perform bulk account actions
- ☐ Access printers section
 - ☐ Change printer settings
 - Allow access to:
- ☐ Edit print log details
- ☐ Access internet section
- ☒ Access reports section
- ☐ Access cards section
- ☐ Access options section
 - ☐ Access admin rights settings
- ☐ Access application log section

mary (Mary Jane)

[\[show/hide details \]](#) [\[remove \]](#)

The End User Client

Client software is optional and not required for simple tracking.

The client software provides details such as real-time account balance, account selection, end-user messages, etc.

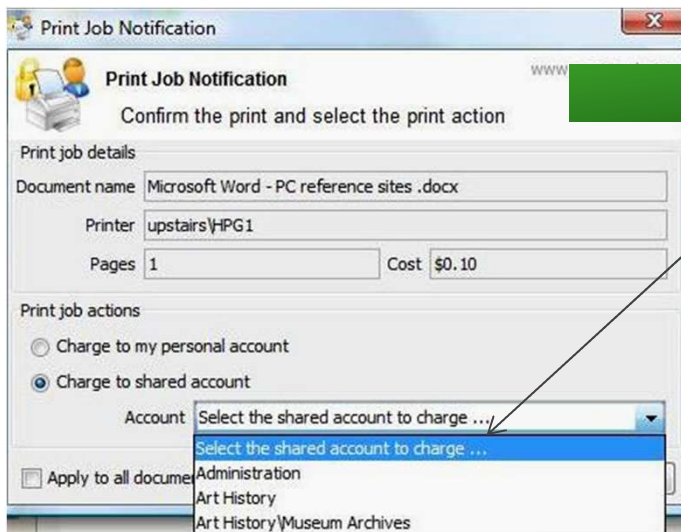
The details link on the Balance Window provides one click access to the user web tools (next slide).

End User Balance Window

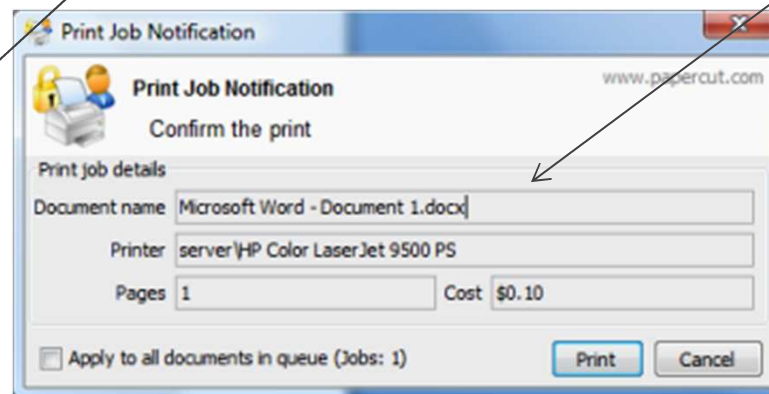
Select Details... to launch user web tools



Account selection



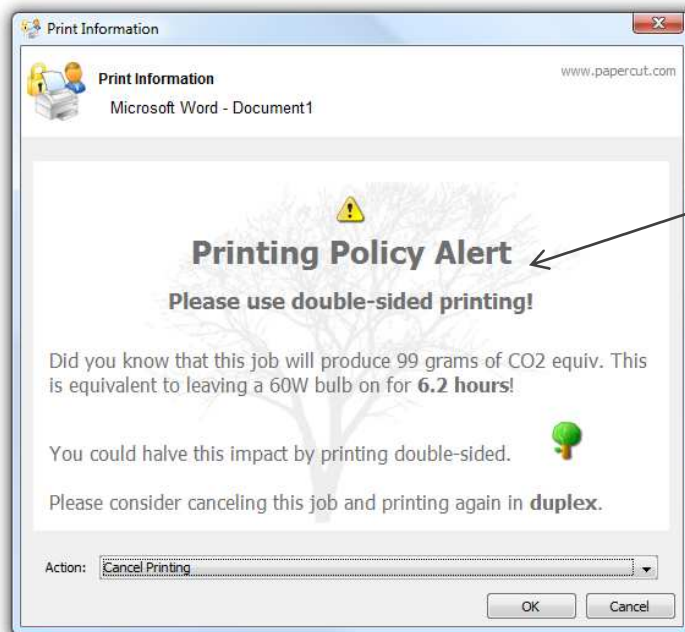
Job confirmation



Implement Print Policy

Use client software popups to communicate with your users

- Did you mean to do this?
- Do you understand the impact?
- Customize rules and visual design via script



Customizable Popups!



End-User Web Tools

Web browser for staff
 Review balance and activity
 View recent print jobs
 Review site charge rates
 Pre-Paid voucher system
 Environment Impact Info
 Payment gateway for adding credit
 Full report history for user
 Refund management system (New!)

PaperCut NG: Recent Pri...
 http://localhost:9191/appjsessionid=nmylvf9j9skd?service=page/UserPrintLogs

Customize Links Other bookmarks

PaperCut Logged in as: chris

Summary
 Shared Accounts
 Rates
 Redeem Card
 Transfers
 Transaction History
 Recent Print Jobs
 Jobs Pending Release
 Change Details
 Web Print
 Logout

Show Filter [filter active: remove]

Usage Date	Charged To	Printer	Pages	Cost	Document Name	Attribs.	Status
May 18, 2010 4:41:34 PM	chris	chris-pc/WetCat	2	\$0.20	PaperCut MF - Reseller Sign...	LETTER (ANSI_A) Duplex: No Grayscale: No 528 kb CHRIS-PC BNF Comment	Printed



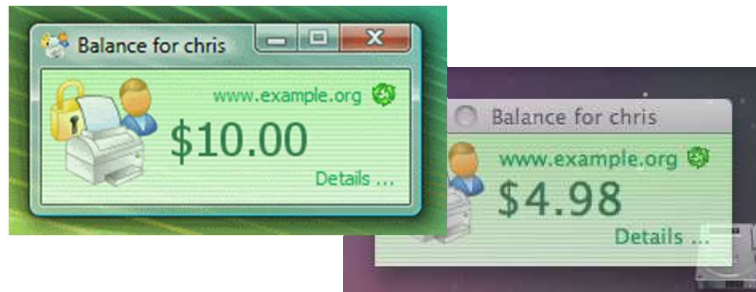
Environmental Impact

Trees	0.021% of a tree since May 13, 2010
Carbon	76 grams of carbon dioxide since May 13, 2010
Energy	Equivalent to running a 60W bulb for 4.8 hours

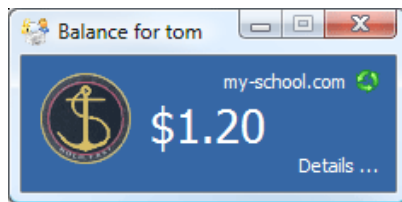
Customize the Interface

The Balance Notifier

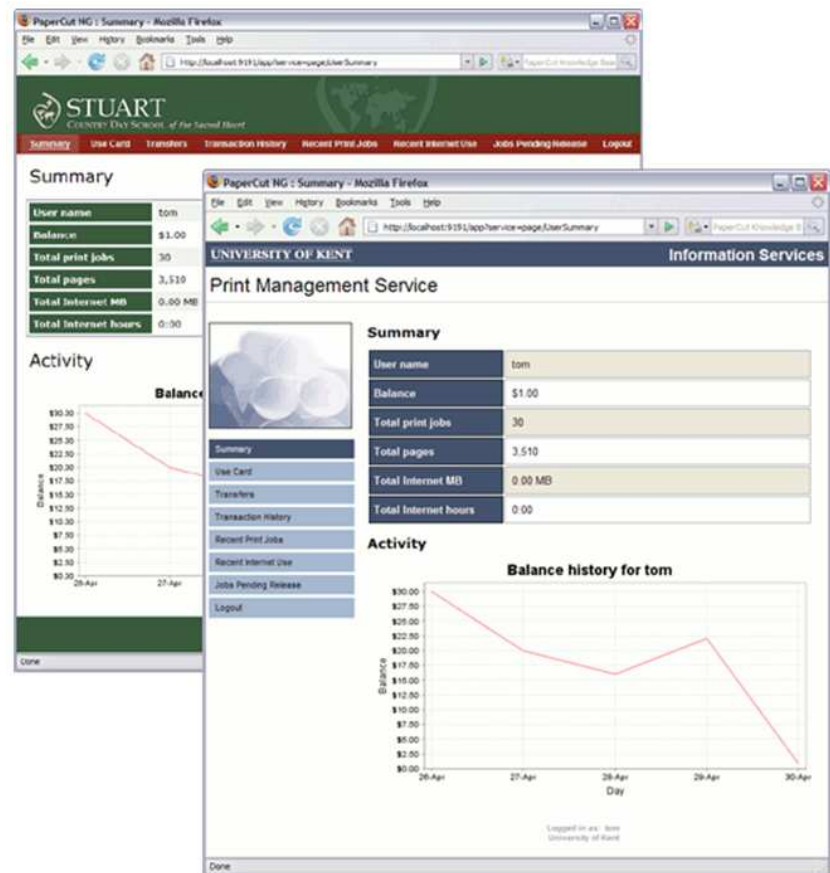
From This.....



To This.....



The User Web Interface



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 P5)

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	☐
Marine park lobby	00003-004	☐
Tortoise training wheels	00003-003	☒
Wombat colocation	00003-002	☐
Harvey Planes Inc.	00004	☐
Design	00004-003	☐
Distributor contacts	00004-002	☐
General	00004-001	☒
Intellectual property	00004-010	☐
Lotek Electronics	00001	☐
Audit	00001-002	☐
EPA compliance	00001-003	☒
General	00001-001	☐
Intellectual property	00001-100	☐

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

Print **Cancel**

Some Tech Info

Interesting Facts for Techies and Geeks

- Full clustering support (Microsoft Cluster, MS Failover Cluster, Veritas, Linux HA)
- Page-level color detection for PCL5, PCL6, HPGL and Postscript
- Supported External databases:
 - Internal database (for up to 5000 users): Apache Derby
 - External Databases: Oracle, MS SQL Server, MySQL, Postgresql
- SSL encryption used for client-server communication
- Developed in a Service Oriented Architecture in a number of languages:
 - Java Application Server
 - Native C/C++ for OS Integration layer
 - Misc. Shell and Perl used in Linux version
- External Dependencies
 - Zero dependencies on Mac and Windows. No need for ISS or .Net Framework on Windows!
 - Perl required on Linux version

Value Added Reseller



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