



PaperCut MF - Fuji Xerox ApeosPort V+ Embedded Manual

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1 Document revision history

Published date or release	Details of changes made
21.1.1	4.10 Home Screen Customization; 4.11 Config Editor
19.2.0	Document restructure; other significant updates (2.4.13 Install PaperCut MF, 4.3.1 Duration of PaperCut MF's user authentication process, 4.5 SNMP, 4.6 Secure Print Release, 4.9.2 Header logo, 4.10 Config Editor, 6.8 Clicking the PaperCut MF icon does not display the PaperCut MF screen, Appendix A: Device screens)
19.0.3	5.12 Config Editor
19.0.1	3.3.6 Disable "Signature Verification"; 5.12 Config Editor; 7.3 Delete <i>PaperCut MF - Fuji Xerox ApeosPort V+</i> ; 8.3 Device Status "Started (with errors) – Unknown error"
19.0.0	2 Overview; 3.4.1 Install PaperCut MF; 5.6 Held print job settings at the device; 5.9 SNMP; 5.12 Config Editor
18.3.5	3.3.6 Enable "Custom Services"; 8.3 Device Status "Operation not supported"
18.3.0	3.3.10 Configure "Web Browser Setup"; 5.10 Timeouts; 5.11 Config Editor; 6 Known Limitations; 8.8 "Invalid embedded web browser setup" error; 9 Appendix A: Device screens
18.2.0	2 Overview; 3 Installation; 4 Post-install testing; 5 Configuration; 6 Known Limitations; 9 Appendix A: Device screens
18.1.3	9 Appendix A: Supported card readers
18.1.1	3.1 Supported devices; 3.2 System, access, and device requirements
18.1.0	New guide

2 Installation

This section covers the installation of *PaperCut MF - Fuji Xerox ApeosPort V+*.

2.1 Supported devices

Ensure that the devices on the network are listed as supported devices on the [PaperCut MF for Fuji Xerox](#) page.

2.2 Compatible devices

Ensure that the supported Fuji Xerox devices on the network are compatible with PaperCut's embedded software solution *PaperCut MF - Fuji Xerox ApeosPort V+*:

- they are Fuji Xerox ApeosPort-V or higher devices
For more information, see [2.4.1 Log in to the device's web interface](#) and [2.4.2 Determine the device's FX platform](#).
- they have the following kits installed and available:
 - External Access Kit
 - Custom Authentication Kit (or Extensible Customization Kit XCP)

Note: This manual is only relevant to supported and compatible Fuji Xerox devices. For more information on PaperCut's embedded software solutions for other devices and platforms, contact your reseller or Authorized Solution Center. You can find their contact information in your PaperCut MF Admin web interface, on the **About** page.

2.3 System requirements

Ensure that the following system requirements are met:

- The following entities are available:
 - Physical device – administrator and user access, and credentials
 - Device's web interface – administrator access, URL, and credentials
 - PaperCut MF Admin web interface – administrator access, URL, and credentials
- The latest version of PaperCut MF is installed and running on the network. For more information, see the [PaperCut MF manual](#).
Note: The minimum compatible version is 18.1.0.
- The networking/firewall configuration allows inbound connections to the PaperCut MF Application Server from the devices on the configured ports. For example:
 - 9191 (TCP/HTTP)
 - 9192 (SSL/TLS/HTTPS)

2.4 Setup procedure

To install PaperCut MF (i.e. device registration and integration):

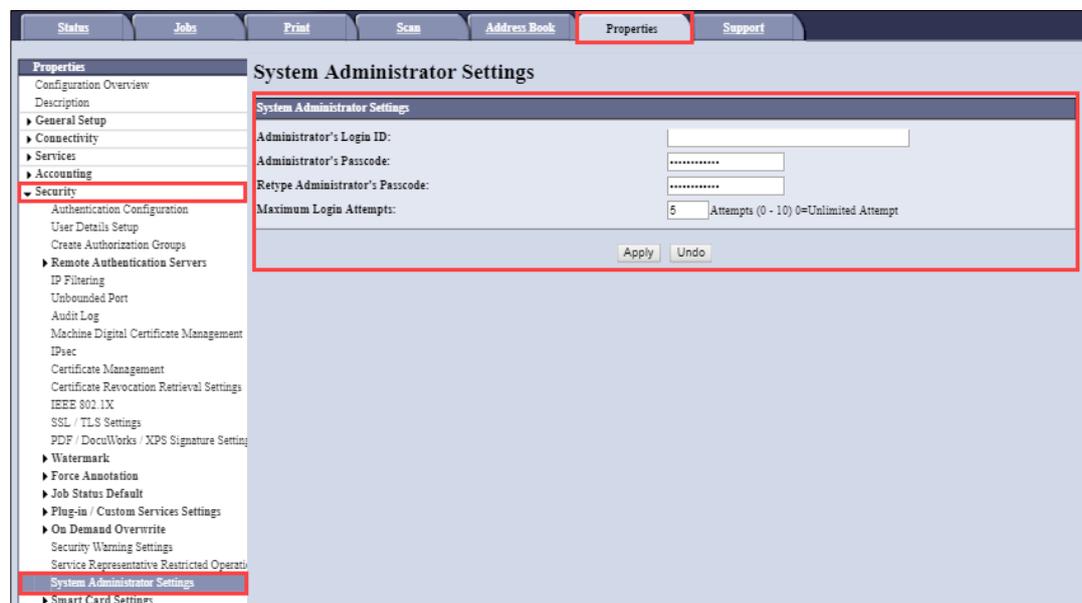
- [2.4.1 Log in to the device's web interface as an administrator](#)
- [2.4.2 Determine the device's FX platform](#)
- [2.4.3 Uninstall PaperCut MF - Fuji Xerox](#)

- 2.4.4 Configure the device's security certificate settings
- 2.4.5 Configure the device's secure communication protocol settings
- 2.4.6 Configure the device's signature verification settings
- 2.4.7 Configure the device's custom services settings
- 2.4.8 Configure the device's embedded plug-ins settings
- 2.4.9 Configure the device's web browser settings
- 2.4.10 Configure the device's user access permission settings
- 2.4.11 Configure the device's accounting and billing settings
- 2.4.12 Configure the device's printer driver's accounting system settings
- 2.4.13 Install PaperCut MF
 - 2.4.13.1 Install PaperCut MF on multiple devices
 - 2.4.13.2 Install PaperCut MF on each device

2.4.1 Log in to the device's web interface as an administrator

To access the device's web interface as an administrator:

1. Log in to the device's web interface.
2. If this device's web interface is being accessed for the first time:
 - a. Enter the default administrator username and password.
 - b. Click **Log in**.
 - c. Navigate to **Properties > Security > System Administrator Settings**.
 - d. Set the administrator credentials:



- e. Click **Apply**.
3. If this device's web interface has been accessed previously:
 - a. Enter the administrator username and password.

- b. Click **Log in**.

2.4.2 Determine the device's FX platform

To determine the device's FX platform:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Status > General**.
3. Verify that the device's **Name** is **ApeosPort-V** or higher.

Note: This manual is only relevant to supported Fuji Xerox ApeosPort-V or higher devices. For more information on PaperCut's embedded software solutions for other devices and platforms, contact your reseller or Authorized Solution Center. You can find their contact information in your PaperCut MF Admin web interface, on the **About** page.

2.4.3 Uninstall PaperCut MF - Fuji Xerox

If PaperCut's embedded software solution *PaperCut MF - Fuji Xerox* is already installed, then first uninstall it before attempting to install *PaperCut MF - Fuji Xerox ApeosPort V+*.

To uninstall *PaperCut MF - Fuji Xerox*:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the device.
4. Click **Advanced Config**.
5. Set the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins** to **Y**.
6. Click **Actions > Delete this device**:

Summary Charging Filters & Restrictions Job Log Statistics **Advanced Config**

Warning: If you use the Config Editor incorrectly, you may cause serious problems which can only be fixed by reinstallation of the application. Use the Config Editor at your own risk.

Search: ext-device.fuji_xerox_aip.force-un

NAME ↑	VALUE	
ext-device.fuji_xerox_aip.force-uninstall-plugins	Y	<input type="button" value="Update"/> <input type="button" value="Remove"/>

Add new:

Name: Value:

Actions (8)

- Reset Counts
- Copy settings to other devices
- Rename this device
- Delete this device**
- View charging rules
- View filter rules
- View job log
- View statistics

7. Click **Ok**:

localhost:9191 says:

Are you sure you want to permanently delete this device?
Please ensure the device stays powered-on and connected to the network before continuing.

8. Click **Devices**; then verify that the device is no longer listed (*PaperCut MF - Fuji Xerox* is permanently uninstalled).
9. Verify that *PaperCut MF - Fuji Xerox* is not available on the device to users:

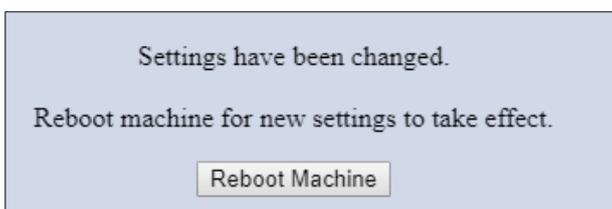


10. Log in to the device's web interface as an administrator.
11. Navigate to **Properties > Security > Plug-in / Custom Services Settings > List of Embedded Plug-ins**; then verify that the **PaperCut Authentication Plugin** is no longer listed (*PaperCut MF - Fuji Xerox* is permanently uninstalled):

Item	Version
Version:	2.0.0

Plug-in Name	Status
<input checked="" type="radio"/> workingfolder plugin	Activated
<input type="radio"/> Cloud On-Demand Print Plugin	Activated
<input type="radio"/> Cloud Service Hub Plugin	Activated
<input type="radio"/> IC Card Reader A	Deactivated
<input type="radio"/> IC Card Reader B	Deactivated
<input type="radio"/> Smart Card Registration	Activated
<input type="radio"/> scantranslation plugin	Activated

12. Select **IC Card Reader A**, click **Start**; click **Ok**.
13. Select **IC Card Reader B**, click **Start**; click **Ok**.
14. Click **Reboot Machine**:



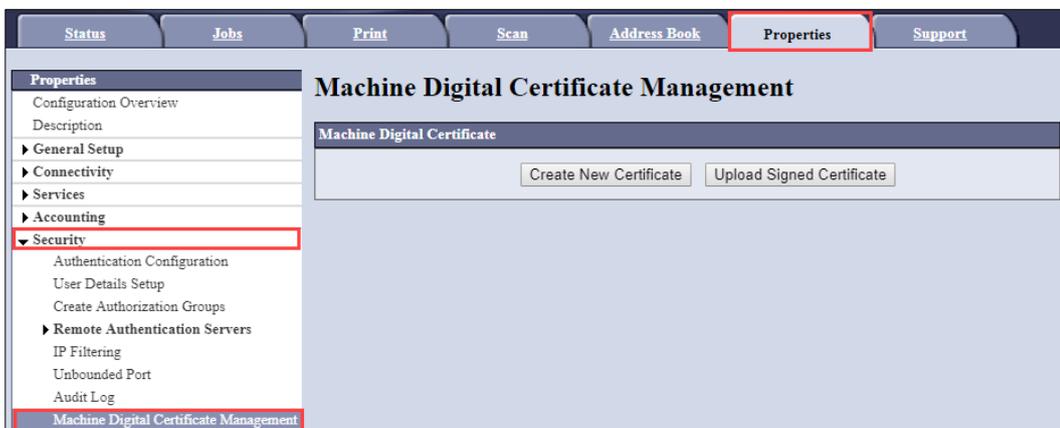
15. Navigate to **Properties > Security > Plug-in / Custom Services Settings > List of Embedded Plug-ins.**
16. Verify that both **IC Card Reader A** and **IC Card Reader B** have the status **Activated**:

	Plug-in Name	Status
<input checked="" type="radio"/>	workingfolder plugin	Activated
<input type="radio"/>	Cloud On-Demand Print Plugin	Activated
<input type="radio"/>	Cloud Service Hub Plugin	Activated
<input type="radio"/>	IC Card Reader A	Activated
<input type="radio"/>	IC Card Reader B	Activated
<input type="radio"/>	Smart Card Registration	Activated
<input type="radio"/>	scantranslation plugin	Activated

2.4.4 Configure the device's security certificate settings

To configure the device's security certificate settings:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > Machine Digital Certificate Management:**



Note: If the **Machine Digital Certificate's Current Status** displays **A Self-Signed Certificate is established on this machine**, then proceed to the next procedure, [2.4.5 Configure the device's secure communication protocol settings.](#)



3. Click **Create New Certificate.**
4. Select **Self-Signed Certificate:**



5. Click **Continue.**

6. Enter the required details:

Create Self-Signed Certificate	
Digital Signature Algorithm:	RSA/SHA-256 ▼
Public Key Size:	2,048 Bits ▼
Issuer:	fx-c2271
Days of Validity:	365 (1 - 9999)

7. Click **Apply**.

2.4.5 Configure the device's secure communication protocol settings

To configure the device's secure communication protocol settings:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > SSL / TLS Settings**:

SSL / TLS Settings	
HTTP - SSL / TLS Communication:	<input checked="" type="checkbox"/> Enabled
HTTP - SSL / TLS Communication Port Number:	443 (1 - 65535)
LDAP - SSL / TLS Communication:	<input type="checkbox"/> Enabled
SMTP - SSL / TLS Communication:	*Disabled ▼
POP3 - SSL / TLS Communication:	<input type="checkbox"/> Enabled
ThinPrint - SSL / TLS Communication:	<input type="checkbox"/> Enabled
S/MIME Communication:	<input type="checkbox"/> Enabled
Verify Remote Server Certificate:	<input type="checkbox"/> Enabled
Protocol Version	
SSL3.0:	<input type="checkbox"/> Enabled
TLS1.0:	<input checked="" type="checkbox"/> Enabled
TLS1.1:	<input checked="" type="checkbox"/> Enabled
TLS1.2:	<input checked="" type="checkbox"/> Enabled
Select the protocol version to be used.	

3. In **HTTP – SSL / TLS Communication**, select **Enabled**:

HTTP - SSL / TLS Communication:	<input checked="" type="checkbox"/> Enabled
---------------------------------	---

4. Click **Apply**.
5. Click **Reboot Machine**:

Settings have been changed.

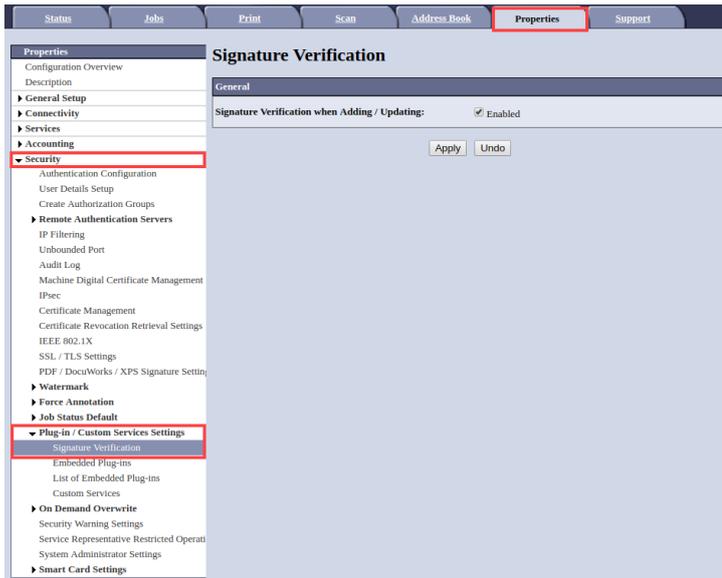
Reboot machine for new settings to take effect.

2.4.6 Configure the device's signature verification settings

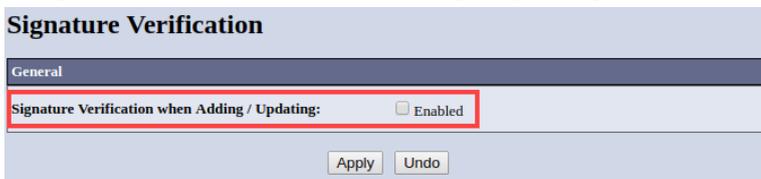
To configure the device's signature verification settings:

1. Log in to the device's web interface as an administrator.

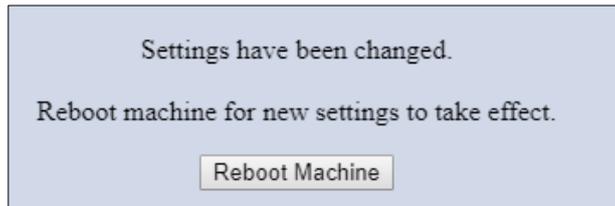
- Navigate to **Properties > Security > Plug-in / Custom Services Settings > Custom Services**:



- In **Signature Verification when Adding / Updating**, ensure **Enabled** is not selected:



- Click **Apply**.
- Click **Reboot Machine**:

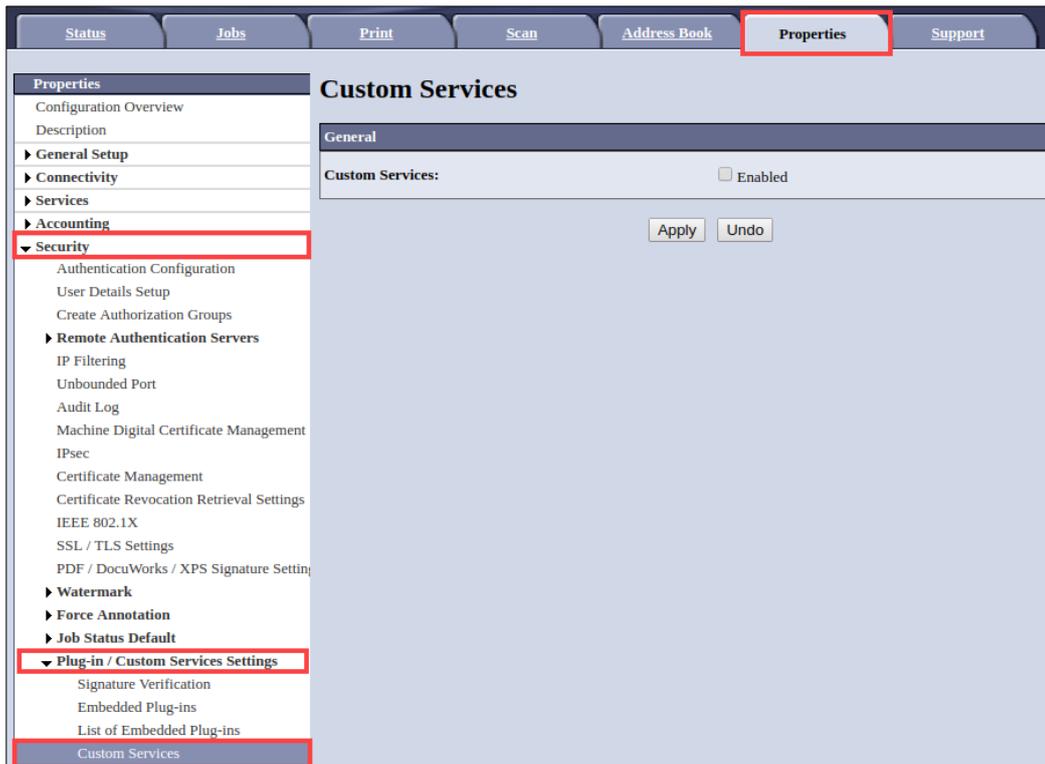


2.4.7 Configure the device's custom services settings

To configure the device's custom services settings:

- Log in to the device's web interface as an administrator.

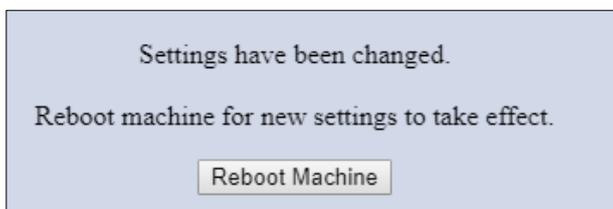
- Navigate to **Properties > Security > Plug-in / Custom Services Settings > Custom Services:**



- In **Custom Services**, select **Enabled**:



- Click **Apply**.
- Click **Reboot Machine**:

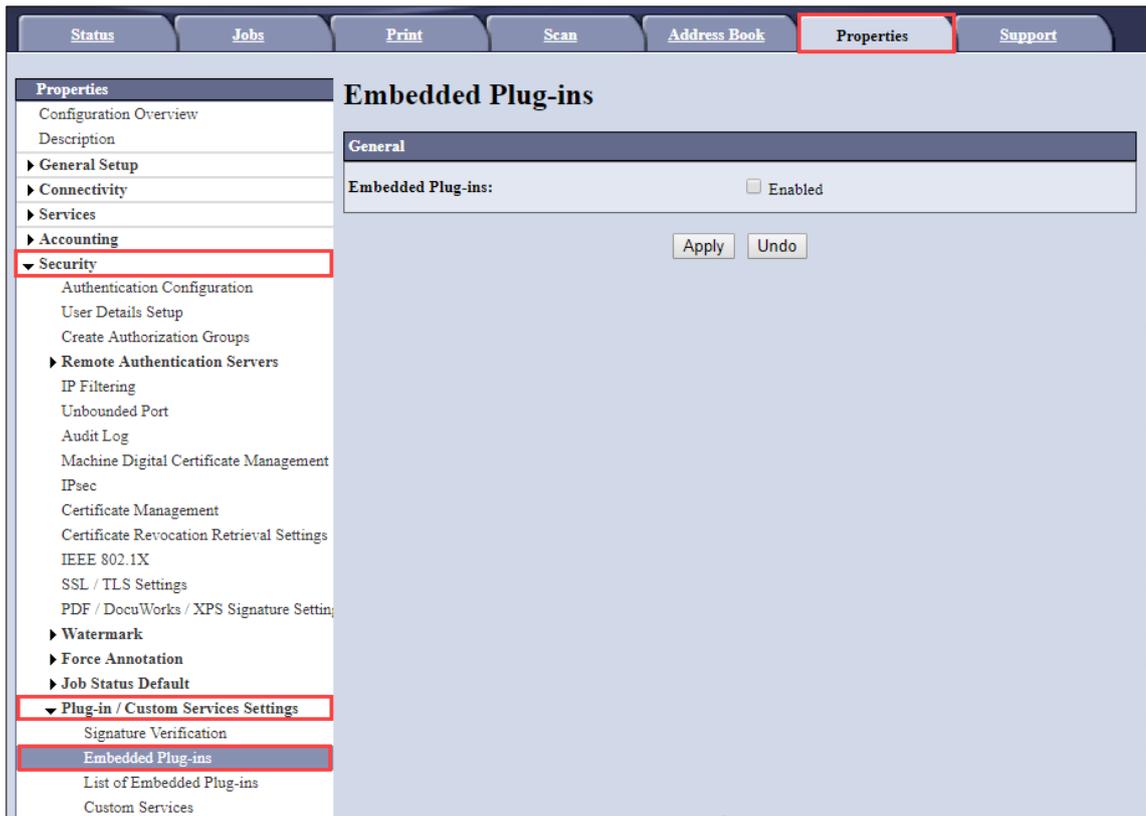


2.4.8 Configure the device's embedded plug-ins settings

To configure the device's embedded plug-ins settings:

- Log in to the device's web interface as an administrator.

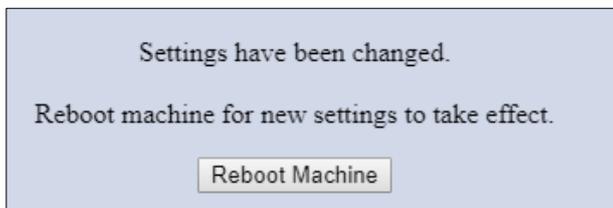
- Navigate to **Properties > Security > Plug-in / Custom Services Settings > Embedded Plug-ins:**



- In **Embedded Plug-ins**, select **Enabled**:



- Click **Apply**.
- Click **Reboot Machine**:



2.4.9 Configure the device's web browser settings

To configure the device's web browser settings:

- Log in to the device's web interface as an administrator.
- Navigate to **Properties > General Setup > Web Browser Setup**.

3. In **Web Applications Version**, select **V5**:



4. Click **Apply**.

2.4.10 Configure the device's user access permission settings

To configure the device's user access permission settings for required device jobs:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > Authentication Configuration**:



3. Click **Next**.

4. In **Access Control > Service Access**, click **Configure**:

Authentication Configuration > Step 2 of 2

Authentication - (Required)

Authentication System:

Kerberos Server:

SMB Server:

LDAP Server:

LDAP User Mappings:

LDAP Authentication:

LDAP Authorization Access:

Custom Filters:

Access Control

Device / System Settings Access:

Service Access:

Note: The list of all the available device jobs (**Installed Services**) are:

Authentication required for:

Installed Services

Copy:

E-mail:

Store to Folder:

Scan to PC:

Store to USB:

Store & Send Link:

Store to WSD:

Client Scan:

Send from Folder:

Network Scanning:

Stored Programming:

Job Flow Sheets:

Print:

Media Print - Text:

Media Print - Photos:

Web Applications:

- Copy
- Fax/ Internet Fax
- E-mail
- Store to Folder
- Scan to PC
- Store to USB
- Store & Send Link
- Store to WSD (Web Services on Devices)
- Client Scan
- Send from Folder
- Network Scanning
- Stored Programming
- Job Flow Sheets

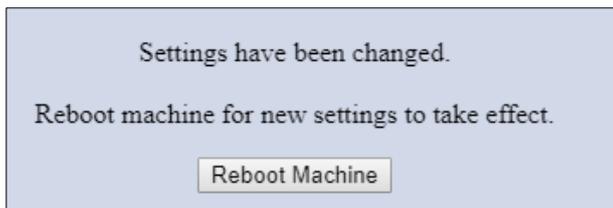
- Print
- Media Print - Text
- Media Print - Photos
- Web Applications

For more information about each, consult the applicable third-party documentation available.

5. In **Print**, select **Unlocked**.
6. For the other device jobs, select the appropriate **Authentication Access (Locked or Unlocked)**:
 - **Unlocked** - This allows unauthenticated users to access the device job.
 - **Locked** - This allows only authenticated users to access the device job.

Note: This applies to all device jobs except **Print**, which must be set to **Unlocked**. This is to allow PaperCut MF to track and control printing.

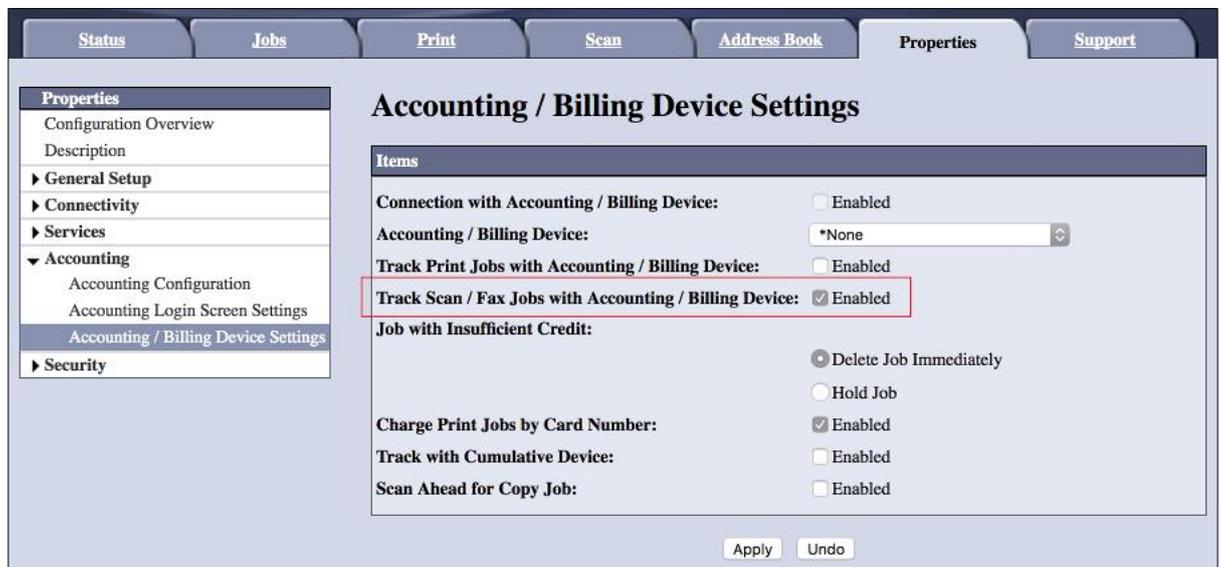
7. Click **Apply**.
8. Click **Reboot Machine**:



2.4.11 Configure the device's accounting and billing settings

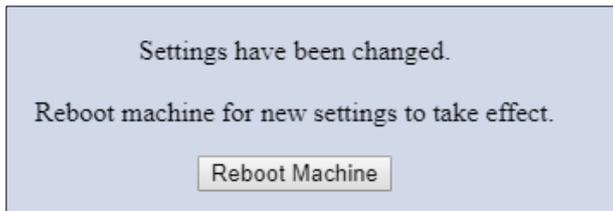
To configure the device's accounting and billing settings:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Accounting > Accounting / Billing Device Settings**.
3. In **Track Scan / Fax Jobs with Accounting / Billing Device**, select **Enabled**:



4. Click **Apply**.

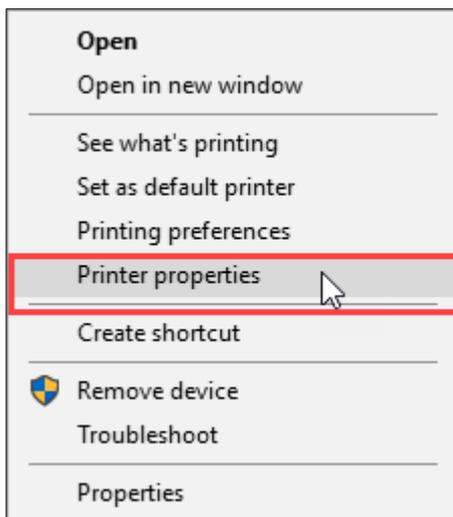
5. Click **Reboot Machine**:



2.4.12 Configure the device's printer driver's accounting system settings

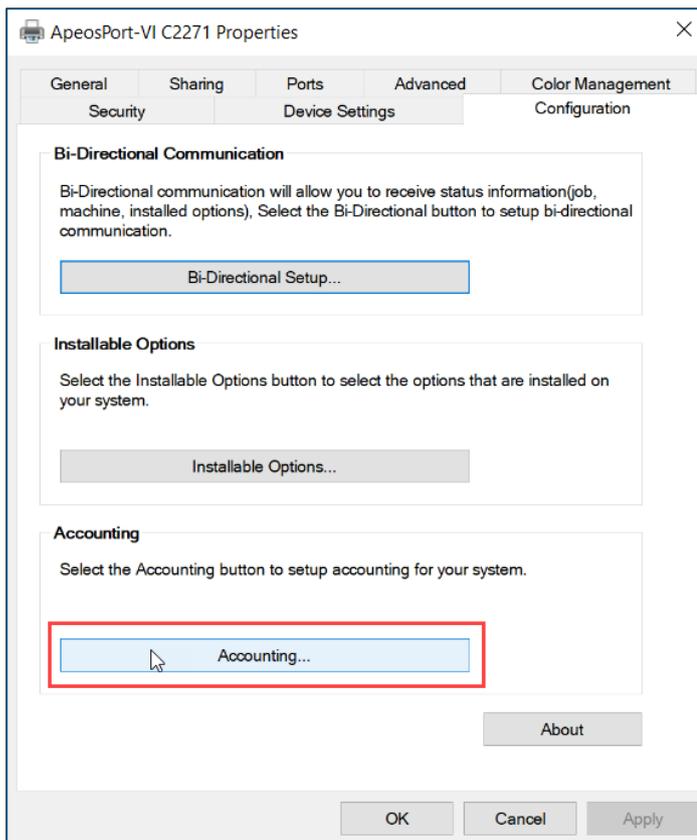
To configure the device's printer driver's accounting system settings:

1. Log in to a Windows-based computer.
2. Navigate to **Windows Control Panel > Devices and Printers**.
3. Right click the printer.
4. Select **Printer Properties**:

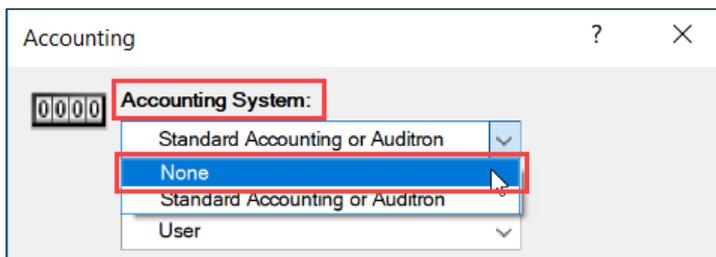


5. Navigate to **Configuration**.

6. Click **Accounting**:



7. In **Accounting System**, select **None**:



8. Click **Ok**.

9. Click **Apply**.

2.4.13 Install PaperCut MF

To install PaperCut MF (i.e. device registration and integration):

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Options > Advanced**.
3. In the **External Hardware Integration** area, select **Enable external hardware integration (for supported devices only)**.
4. Click **Apply**.
5. You can use any one of the following options:
 - [2.4.13.1 Install PaperCut MF on multiple devices](#)
 - [2.4.13.2 Install PaperCut MF on each device](#)

2.4.13.1 Install PaperCut MF on multiple devices

PaperCut MF 19.2.0 introduced a feature to create multiple devices in bulk through a CSV file via server commands. In 20.0.0 we added a way to load this CSV file via the PaperCut MF UI. You can find the feature under: PaperCut MF > Devices > Create multiple devices.

Using this feature increases your operational efficiency by significantly reducing the time taken to add devices to PaperCut MF. From version 20.0, this feature also allows for you to add devices to PaperCut MF before such devices are delivered to their installation site, such devices are added with a “Staged” status. The scenario for “Staged” devices applies when the system admin already knows all the device’s attributes prior to its delivery. For more information, see the [Enhanced Deployment Project](#).

2.4.13.2 Install PaperCut MF on each device

Note: If you are running a version prior to PaperCut MF 19.2.0, then this is the only applicable option.

To install PaperCut MF on each device:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Click **Create Device**.
4. In **Type**, select **Fuji Xerox ApeosPort V+ (AIP)**.
5. In **Device name**, enter a descriptive name for the device.
6. Optionally, in **Location/Department**, enter location or department details of the device.
7. In **Hostname / IP**, enter the network name or IP address of the device.
8. In **Device's administrator username** and **Device's administrator password**, enter the same administrator credentials (username and password) used for the device’s web interface. For more information, see [2.4.1 Log in to the device’s web interface](#).
9. In **Function**, select the required device jobs:
 - **Track & control copying**
 - **Track & control scanning**
 - **Track & control faxing**
 - **Enable print release**

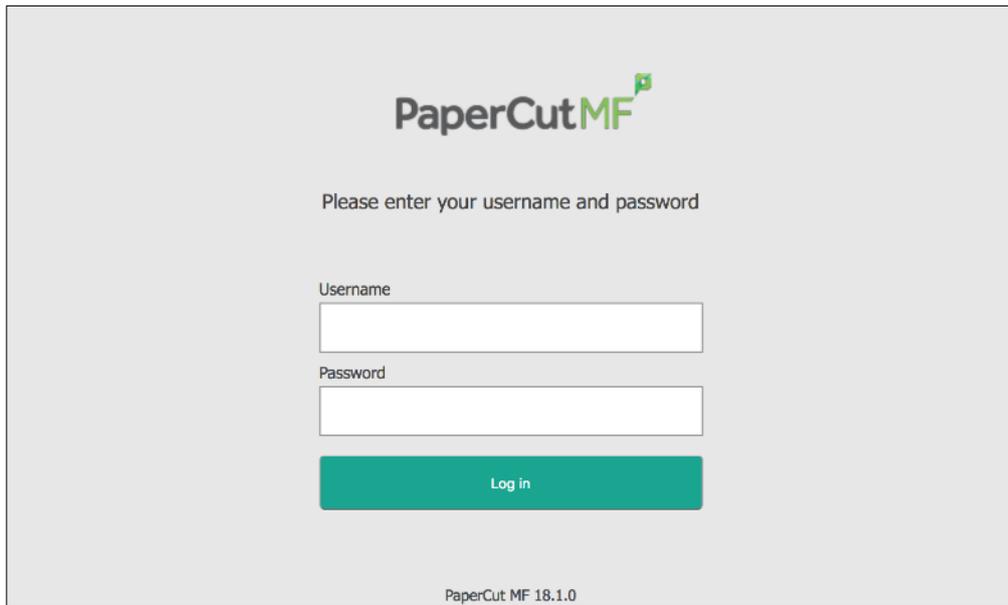
Note: For more information, see [4.6 Secure Print Release](#) and [4.7 Device jobs](#).

10. Click **Ok**.
11. Verify that PaperCut MF is installed on the device (i.e. device registration and integration is completed):
 - The PaperCut MF Admin web interface’s **Device Status** displays the status **Started - Device is ready for user to login**.

Note: If the **Device Status** displays any other status, then see:

 - [6.2 Device Status "Started \(with errors\) – Unknown error"](#)
 - [6.3 Device Status "Operation not supported"](#)
 - [6.4 Device Status "Started \(with errors\)... System is Locked"](#)
 - [6.5 Device Status "Device is currently in use, unable to initiate exclusive lock on the device"](#)
 - [6.7 Device Status "Connecting to server..."](#)

- The first screen on the device displays the PaperCut MF Login screen:



Note: If the first screen on the device displays any other screen, then see 6.6 "Invalid embedded web browser setup" error.

- The device's web interface (**Properties > Security > Plug-in / Custom Services Settings > Embedded Plug-ins**) displays **PaperCut Authentication Plugin** (*PaperCut MF - Fuji Xerox ApeosPort V+ is installed*):

Plug-in Name	Status
<input checked="" type="radio"/> workingfolder plugin	Activated
<input type="radio"/> Cloud On-Demand Print Plugin	Activated
<input type="radio"/> Cloud Service Hub Plugin	Activated
<input type="radio"/> IC Card Reader A	Activated
<input type="radio"/> IC Card Reader B	Activated
<input type="radio"/> Smart Card Registration	Activated
<input type="radio"/> scantranslation plugin	Activated
<input type="radio"/> PaperCut Authentication Plugin	Activated

3 Post-install testing

After PaperCut MF is installed on the device (i.e. device registration and integration is completed), it is recommended that you test some common usage scenarios. This is important for two reasons:

- To ensure that PaperCut MF works as expected.
- To familiarize yourself with the features and functionality of PaperCut MF.

This section covers the following post-install testing scenarios for *PaperCut MF - Fuji Xerox ApeosPort V+*:

- [3.2 Simple printing and copying](#)
- [3.3 Advanced copying](#)

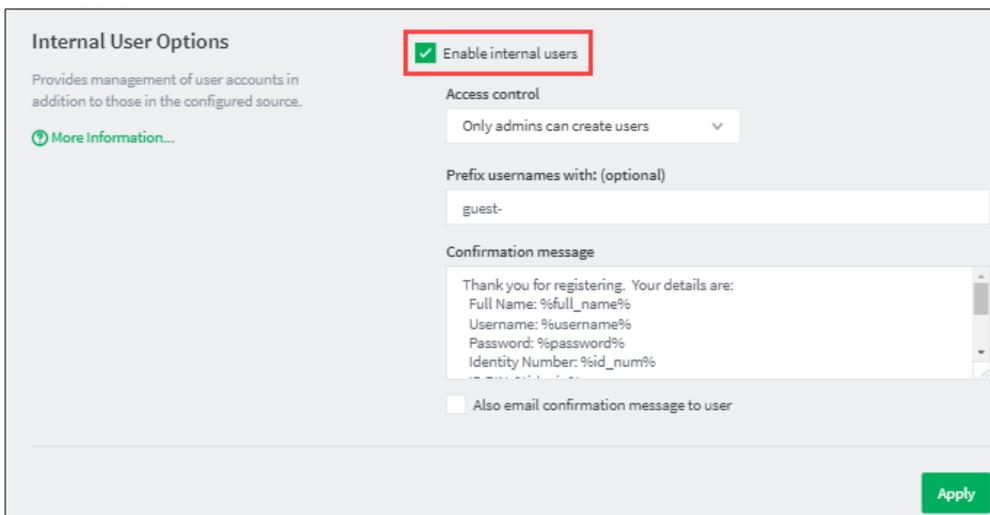
3.1 Test preparation: create test users

To execute the post-install testing scenarios, ensure at least two test users are created:

- **Simple test user** – A user who performs simple printing and copying.
- **Advanced test user** – A user who performs advanced copying.

To create test users:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Options > User/Group Sync**.
3. In **Internal User Options**, select **Enable internal users**.
4. Click **Apply**.



Internal User Options

Provides management of user accounts in addition to those in the configured source.

[More Information...](#)

Enable internal users

Access control

Only admins can create users

Prefix usernames with: (optional)

guest-

Confirmation message

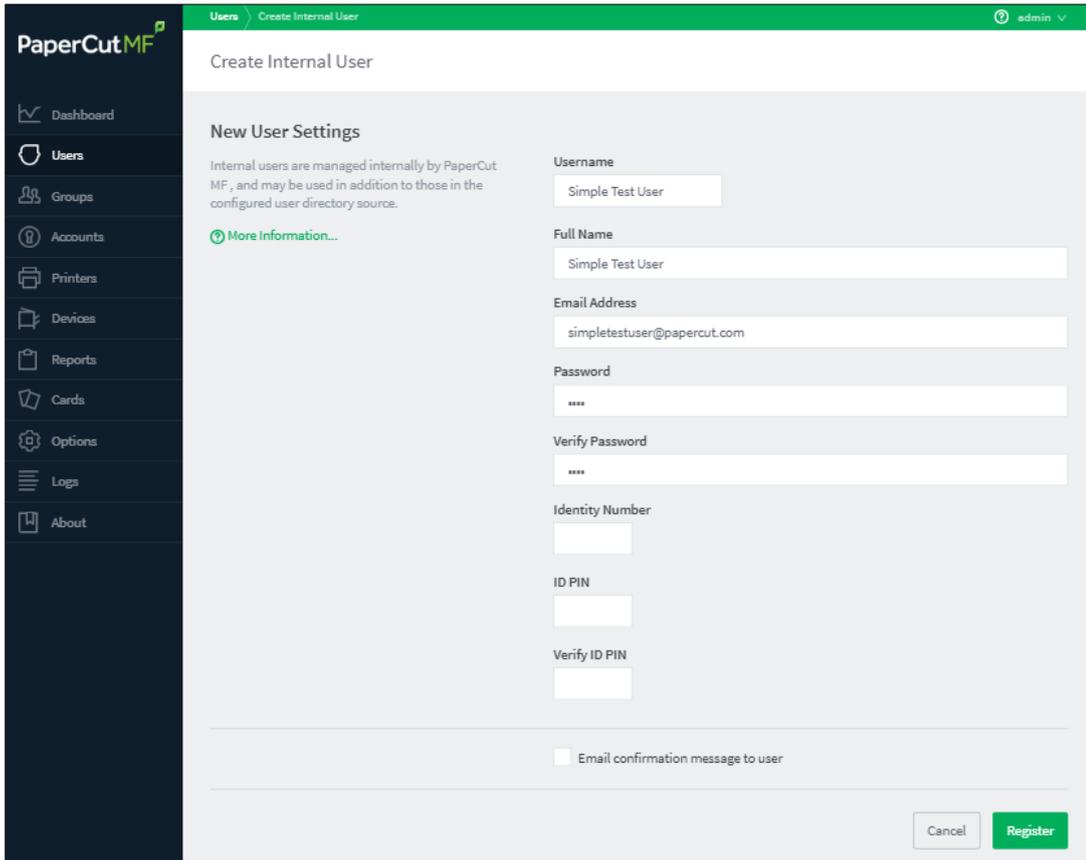
Thank you for registering. Your details are:
Full Name: %full_name%
Username: %username%
Password: %password%
Identity Number: %id_num%

Also email confirmation message to user

Apply

5. Navigate to **Users**.
6. Click **Create internal user...**

7. Enter the required details for the test users as required (simple test user, advanced test user):



The screenshot shows the 'Create Internal User' page in the PaperCut MF Admin interface. The page has a dark sidebar on the left with navigation options: Dashboard, Users, Groups, Accounts, Printers, Devices, Reports, Cards, Options, Logs, and About. The main content area is titled 'Create Internal User' and contains a 'New User Settings' section. Below this section is a note: 'Internal users are managed internally by PaperCut MF, and may be used in addition to those in the configured user directory source.' There is a link for 'More Information...'. The form fields are: Username (Simple Test User), Full Name (Simple Test User), Email Address (simpletestuser@papercut.com), Password (masked with ****), Verify Password (masked with ****), Identity Number (empty), ID PIN (empty), and Verify ID PIN (empty). At the bottom, there is a checkbox for 'Email confirmation message to user' which is unchecked. The 'Register' button is green and highlighted, while the 'Cancel' button is grey.

8. Click **Register**.

3.2 Simple printing and copying

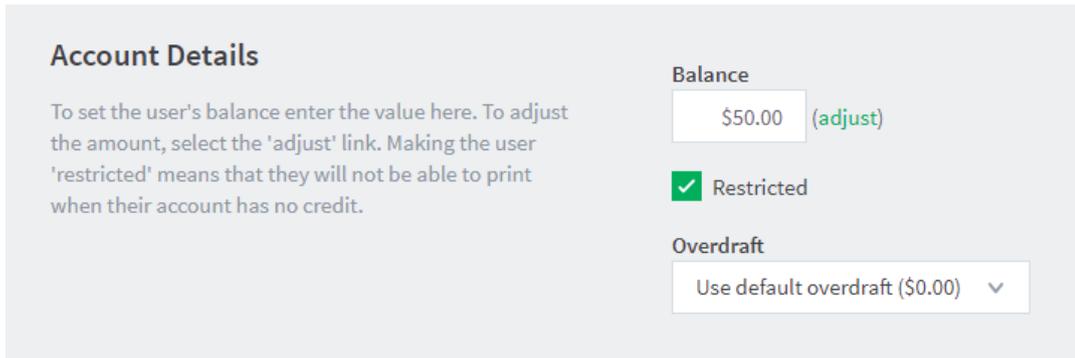
3.2.1 Test preparation: configure simple test user

To test the simple test scenarios, ensure at least one simple test user is created. For more information, see [3.1 Test preparation: create test users](#). Once created, ensure the simple test user is configured.

To configure the simple test user:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Users**.
3. From the **User List**, select the simple test user.

- In the **Account Details** area, set the **Balance** to **\$50.00** and select **Restricted**:



Account Details

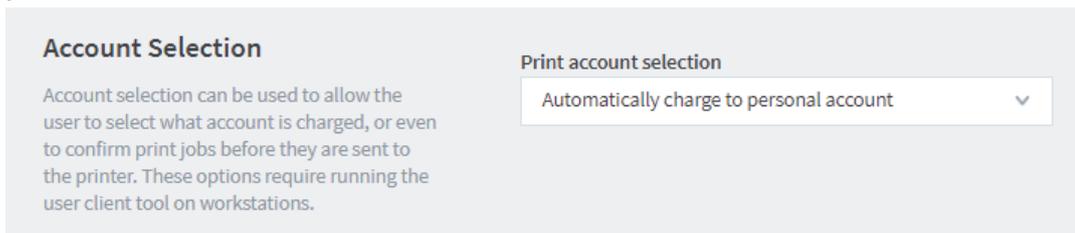
To set the user's balance enter the value here. To adjust the amount, select the 'adjust' link. Making the user 'restricted' means that they will not be able to print when their account has no credit.

Balance
\$50.00 (adjust)

Restricted

Overdraft
Use default overdraft (\$0.00) ▾

- In the **Account Selection** area's **Print account selection**, select **Automatically charge to personal account**:



Account Selection

Account selection can be used to allow the user to select what account is charged, or even to confirm print jobs before they are sent to the printer. These options require running the user client tool on workstations.

Print account selection
Automatically charge to personal account ▾

- Click **Apply**.

3.2.2 Simple printing

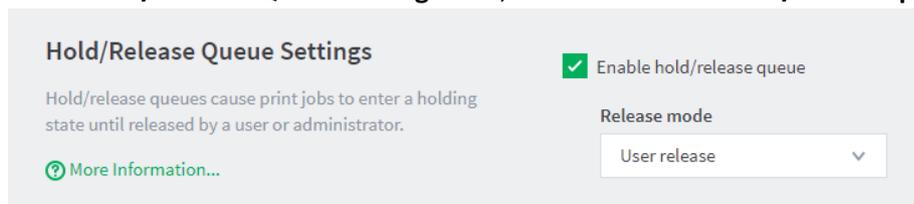
Simple printing does not involve providing the simple test user with a choice of accounts to choose from. Printing is charged to the simple test user's default My Personal Account.

To test simple printing, ensure the following test preparation requirements are met:

- Simple test user** - A simple test user is created and configured. For more information, see [3.1 Test preparation: create test users](#) and [3.2.1 Test preparation: configure simple test user](#).
- Printer queue settings** - The printer queue's Hold/Release Queue Settings are configured. For more information, see the [PaperCut MF manual](#).

To configure the printer queue's Hold/Release Queue Settings:

- Log in to the PaperCut MF Admin web interface.
- Navigate to **Printers**.
- Select the Printer that is applicable to the device being tested.
- In the **Hold/Release Queue Settings** area, select the **Enable hold/release queue**.



Hold/Release Queue Settings

Hold/release queues cause print jobs to enter a holding state until released by a user or administrator.

Enable hold/release queue

Release mode
User release ▾

[More Information...](#)

- Click **Apply**.
Print jobs to this printer queue are held until released by a user.

- Device functions** – Printing is enabled. To enable printing:
 - Log in to the PaperCut MF Admin web interface.
 - Navigate to **Devices**.
 - Select the device being tested.

4. In the **Print Release** area, select **Enable print release**.
5. In the **This device will display jobs for release from the selected source queues**, select at least one source queue for print release that corresponds to this device's configured printer queue.
6. Click **Apply**.
7. Verify that the **Devices > External Device List** displays the device with **Print Release** in the **Function** column.

To test simple printing:

1. Log in to a computer as the simple test user.
2. Print a few jobs to the source queue that was selected in the **Devices > External Device List > Device Details > Print Release > Enable print release** area of the device being tested.
3. Log in to the PaperCut MF Admin web interface.
4. Navigate to **Printers > Jobs Pending Release**.
5. Verify that the print jobs for the simple test user are being held and listed:

SUBMIT TIME	PRINTER	USER	DOCUMENT	CLIENT	PAGES	COST	ACTION
Jan 2, 2018 9:53:22 AM	laptop-simpletestuser(Printer1)	simpletestuser	Prep activities - week 2	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:53:19 AM	laptop-simpletestuser(Printer1)	simpletestuser	Prep activities - week 1	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:53:14 AM	laptop-simpletestuser(Printer1)	simpletestuser	Report template	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:52:31 AM	laptop-simpletestuser(Printer1)	simpletestuser	School Newsletter Template	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]

6. Log out of the PaperCut MF Admin web interface.
7. Log in to the device as the simple test user:

Please enter your username and password

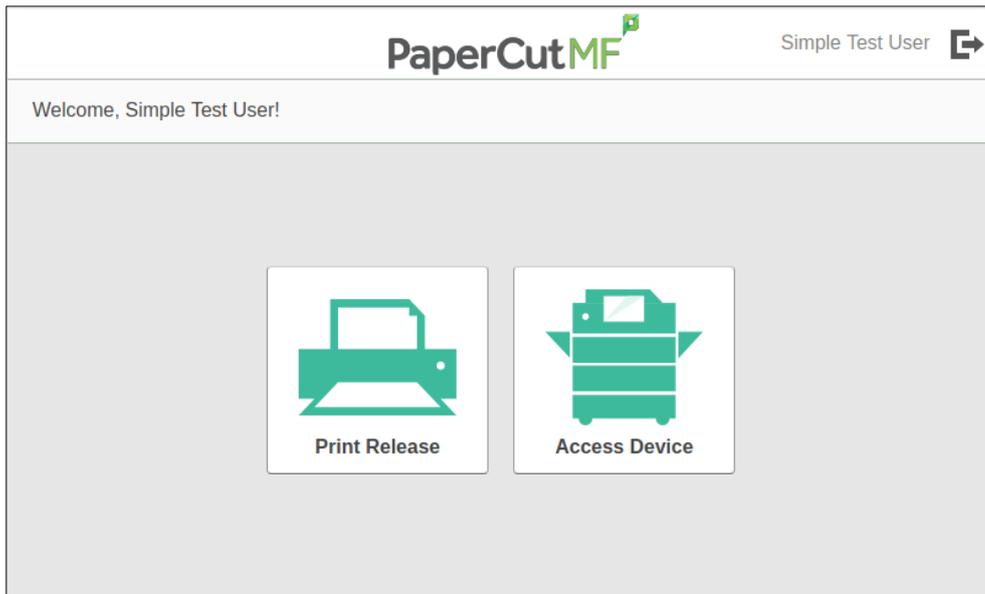
Username

Password

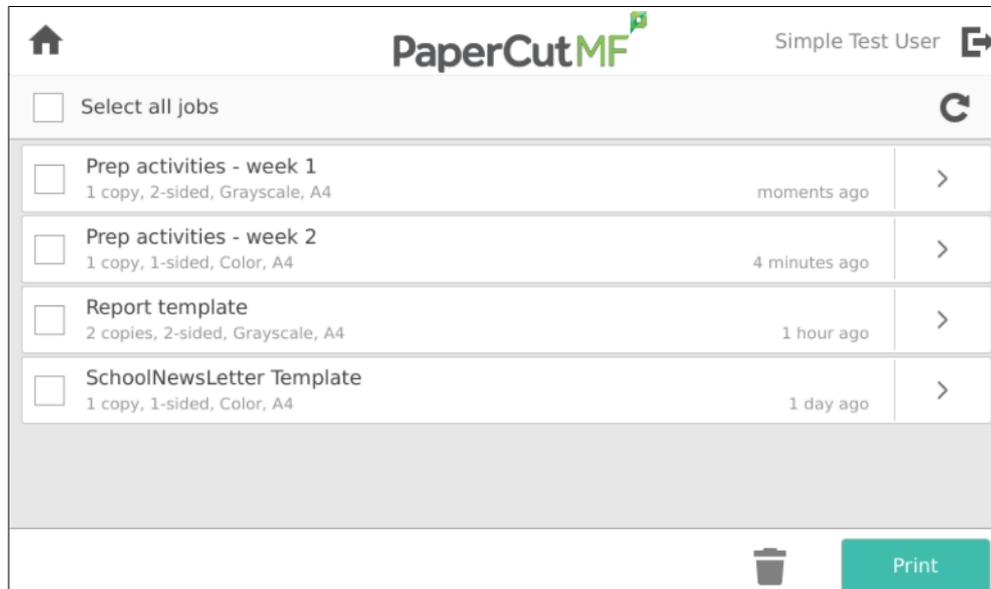
Log in

PaperCut MF 18.1.0

8. Select **Print Release**:



9. Verify that the print jobs for the simple test user are being held and listed:



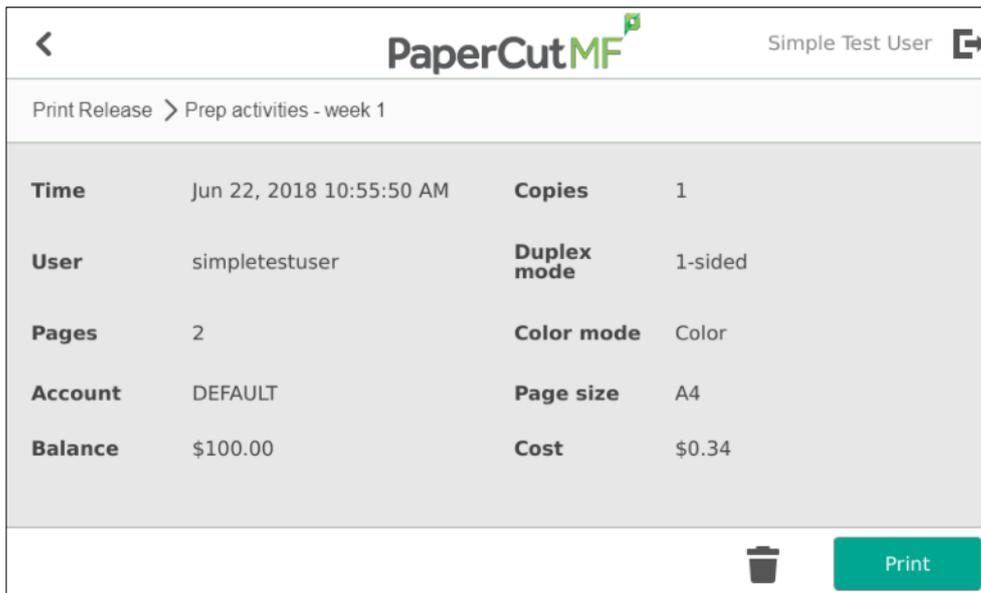
10. To release one or many held print jobs at once, select all the required held print jobs and click **Print**.

11. To delete one or many held print jobs at once, select all the required held print jobs and click the **Bin** icon.

12. To view and take actions on a single held print job, click the chevron:



Details of the held print job are displayed:

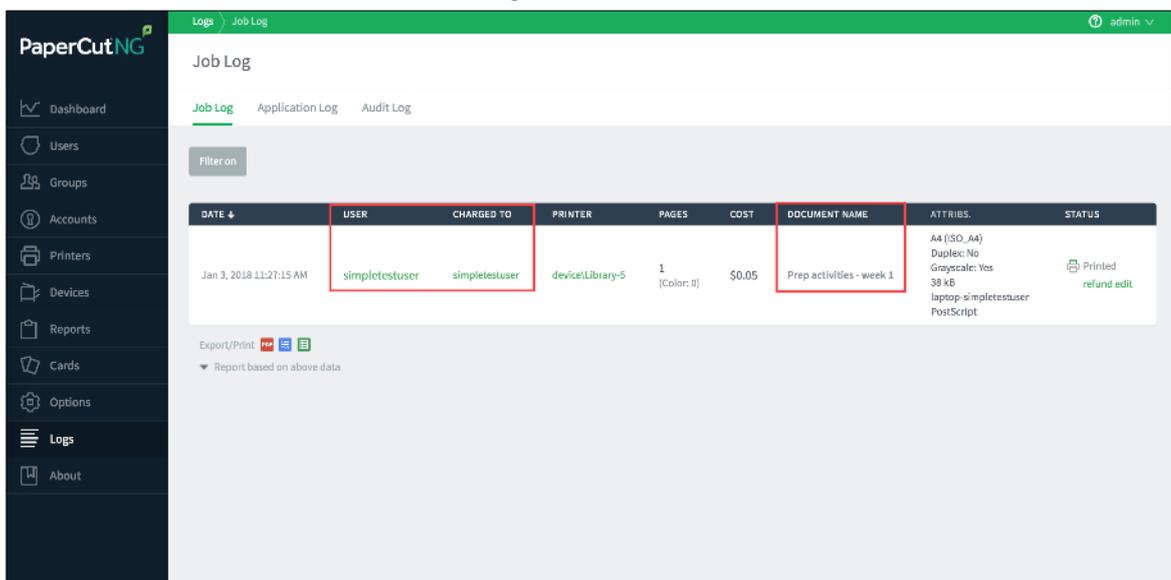


The screenshot shows the PaperCut MF Admin web interface. At the top, it says 'PaperCut MF' and 'Simple Test User'. Below that, it shows 'Print Release > Prep activities - week 1'. The main content is a table with the following details:

Time	Jun 22, 2018 10:55:50 AM	Copies	1
User	simpletestuser	Duplex mode	1-sided
Pages	2	Color mode	Color
Account	DEFAULT	Page size	A4
Balance	\$100.00	Cost	\$0.34

At the bottom right, there is a trash icon and a green 'Print' button.

13. Log out of the device.
14. Log in to the PaperCut MF Admin web interface.
15. Navigate to **Logs**.
16. After printing is completed, verify that **Job Log** page displays the test user's name, simple test user, in the **User** column and the **Charged To** column:



The screenshot shows the PaperCut MF Admin web interface. The left sidebar contains navigation options: Dashboard, Users, Groups, Accounts, Printers, Devices, Reports, Cards, Options, Logs, and About. The main content area is titled 'Job Log' and has tabs for 'Job Log', 'Application Log', and 'Audit Log'. Below the tabs is a 'Filter on' button. The main content is a table with the following columns: DATE, USER, CHARGED TO, PRINTER, PAGES, COST, DOCUMENT NAME, ATTRIBS, and STATUS. The table contains one row of data:

DATE	USER	CHARGED TO	PRINTER	PAGES	COST	DOCUMENT NAME	ATTRIBS	STATUS
Jan 3, 2018 11:27:15 AM	simpletestuser	simpletestuser	deviceLibrary-5	1 (Color: 0)	\$0.05	Prep activities - week 1	A4 (ISO_A4) Duplex: No Grayscale: Yes 38 kB laptop-simpletestuser PostScript	Printed refund edit

Below the table, there are options to 'Export/Print' and a dropdown menu for 'Report based on above data'.

17. Log out of the PaperCut MF Admin web interface.

3.2.3 Simple copying

Simple copying does not involve providing the simple test user with a choice of accounts to choose from. Copying is charged to the simple test user's default My Personal Account.

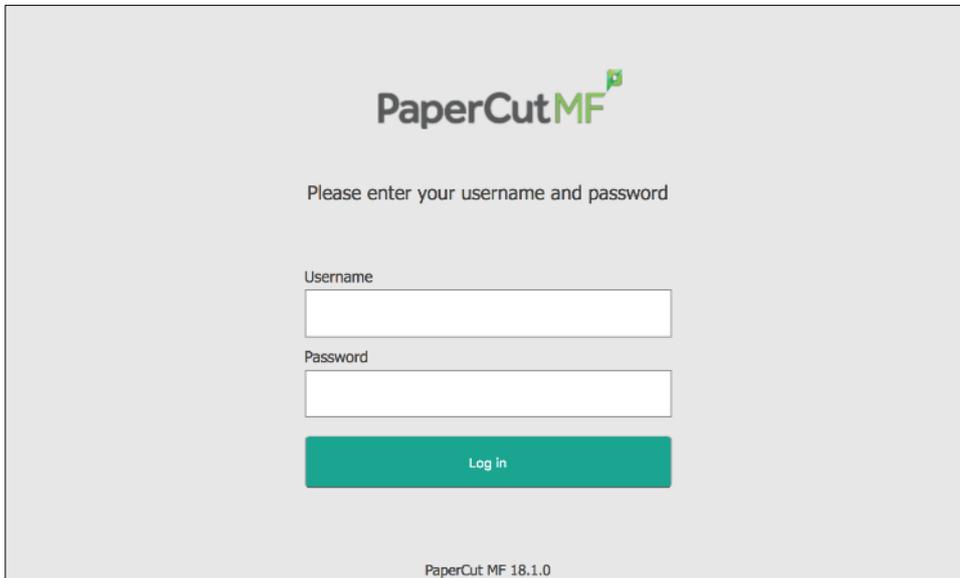
To test simple copying, ensure the following test preparation requirements are met:

- **Simple test user** - A simple test user is created and configured. For more information, see [3.1 Test preparation: create test users](#) and [3.2.1 Test preparation: configure simple test user](#).
- **Device functions** – Copying is enabled. To enable copying:
 1. Log in to the PaperCut MF Admin web interface.

2. Navigate to **Devices**.
3. Select the device being tested.
4. In the **External Device Settings > Tracking** area, select **Track & control copying**.
5. Click **Apply**.
6. Verify that the **Devices > External Device List** displays the device with **Copier** in the **Function** column.

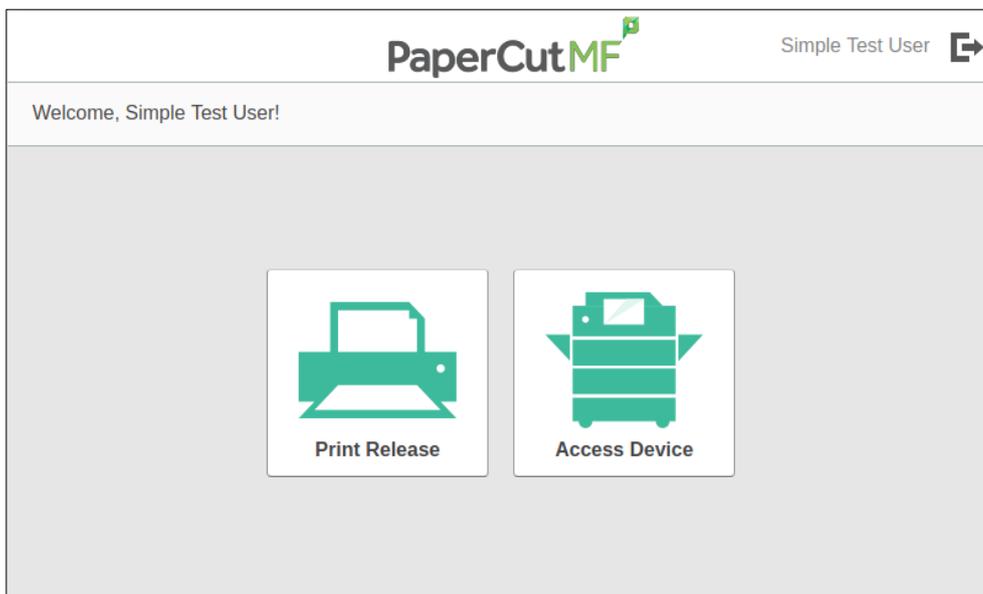
To test simple copying:

1. Log in to the device as the simple test user:



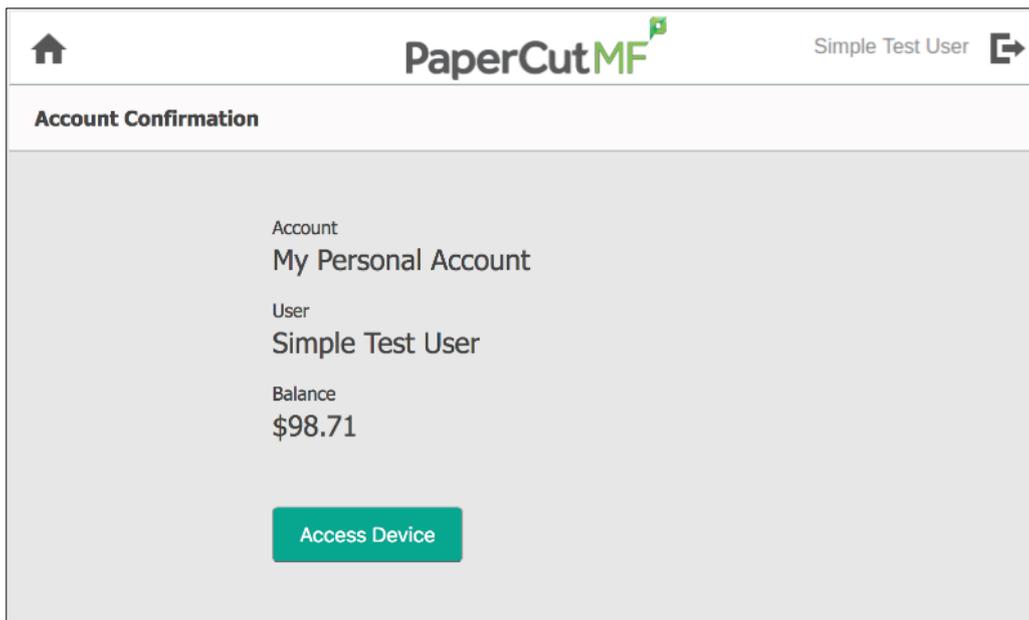
The image shows the PaperCut MF login interface. At the top center is the PaperCut MF logo. Below it, the text reads "Please enter your username and password". There are two input fields: "Username" and "Password". Below the password field is a green "Log in" button. At the bottom center, the version number "PaperCut MF 18.1.0" is displayed.

2. Select **Access Device**:

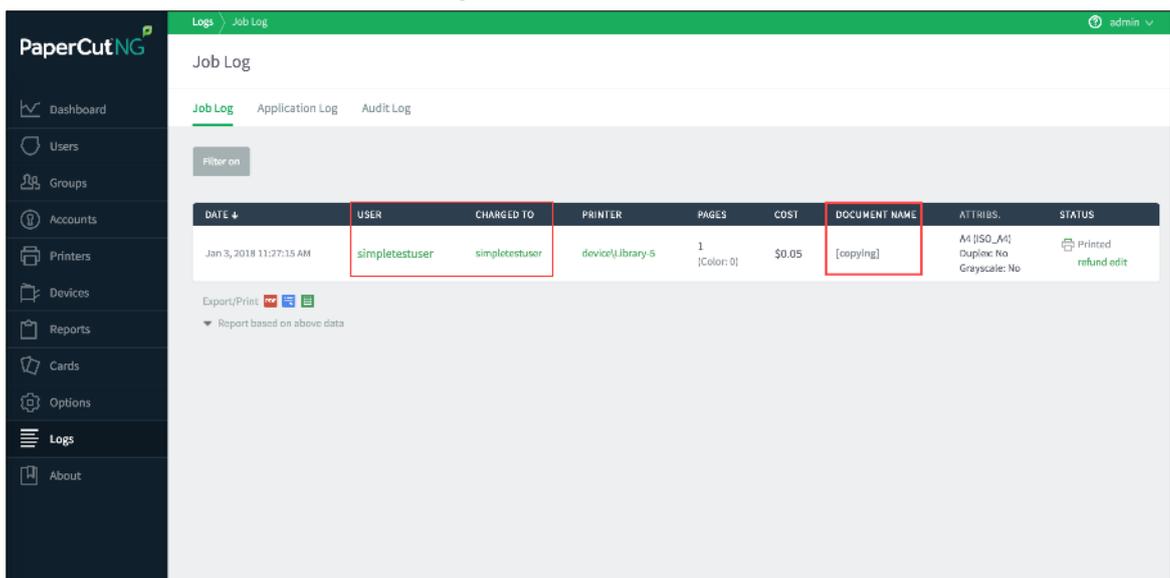


3. Verify that the PaperCut MF Account Confirmation screen does not provide the simple test user with a choice of accounts to choose from, and charges copying to the simple test user's

default My Personal Account:



4. Click **Access Device**.
5. Select **Copy**.
6. Complete copying by following the device's workflow.
7. Log out of the device.
8. Log in to the PaperCut MF Admin web interface.
9. Navigate to **Logs**.
10. After copying is completed, verify that **Job Log** page displays the test user's name, simple test user, in the **User** column and the **Charged To** column:



11. Log out of the PaperCut MF Admin web interface.

3.3 Advanced copying

Advanced copying involves providing the advanced test user with a choice of accounts to choose from. Copying is charged to the account that is selected by the advanced test user.

To test advanced copying, ensure the following test preparation requirements are met:

- **Advanced test user** – An advanced test user must be created. For more information, see [3.1 Test preparation: create test users](#).

Once created, the advanced test user must be configured.

To configure the advanced test user:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Users**.
3. From the **User List**, select the advanced test user.
4. In the **Account Details** area, set the **Balance** to **\$50.00** and select **Restricted**:

Account Details

To set the user's balance enter the value here. To adjust the amount, select the 'adjust' link. Making the user 'restricted' means that they will not be able to print when their account has no credit.

Balance: \$50.00 (adjust)

Restricted

Overdraft: Use default overdraft (\$0.00) ▾

5. In the **Account Selection** area's **Print account selection**, select **Show standard account selection** and select the required options:

Account Selection

Account selection can be used to allow the user to select which account is charged. However, some options may require the user to run the User Client. [More Information...](#)

Print account selection: Show standard account selection ▾

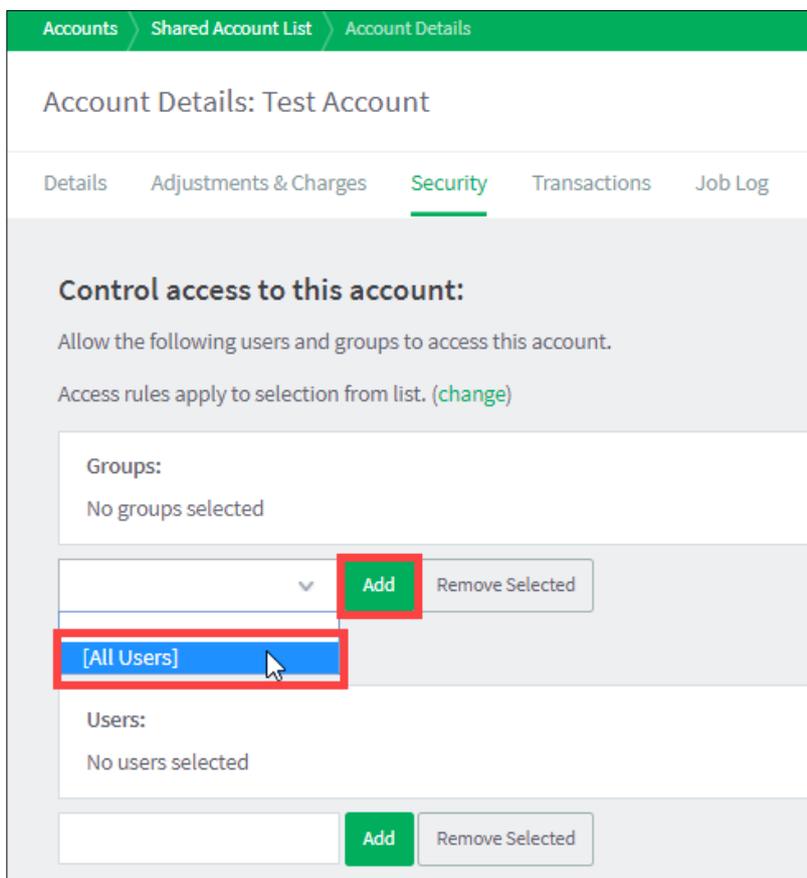
⚠ This setting may require the user to run the User Client. [More Information...](#)

Allow user to:

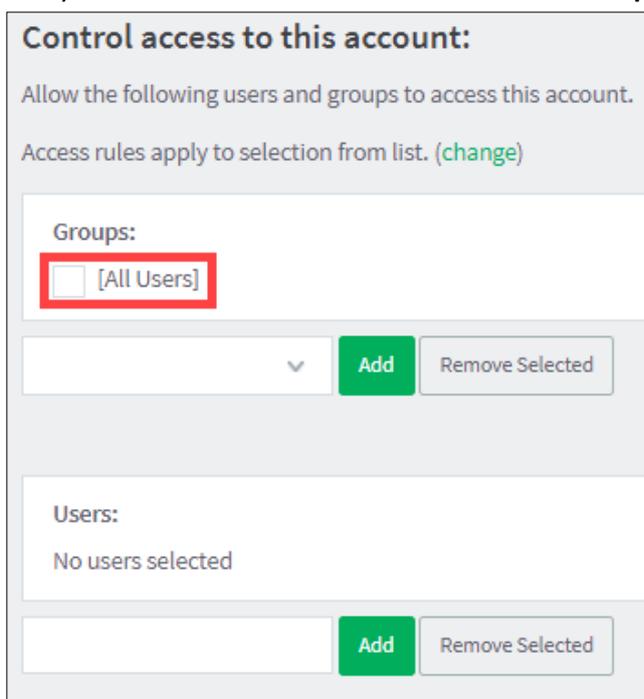
- Charge to their personal account
- Select shared accounts from a list
- Select shared accounts using a PIN/code
- Print as another user

6. Click **Apply**.
- **Device functions** – Copying is enabled. To enable copying:
 1. Log in to the PaperCut MF Admin web interface.
 2. Navigate to **Devices**.
 3. Select the device being tested.
 4. In the **External Device Settings > Tracking** area, select **Track & control copying**.
 5. Click **Apply**.
 6. Verify that the **Devices > External Device List** displays the device with **Copier** in the **Function** column.
 - **Advanced account** – A test account is created. To create a test account:
 1. Log in to the PaperCut MF Admin web interface.
 2. Navigate to **Accounts**.
 3. Click **Create a new account....**
 4. In the **Details & Balance** area's field **Account Name**, enter the name of the test account (test account).
 5. Click **Apply**.
 6. Verify that the **Accounts > Shared Account List** page displays the test account created.

7. Click the test account.
8. Navigate to **Security**.
9. In the **Control access to this account > Groups** area, select **[All Users]**; then click **Add**:

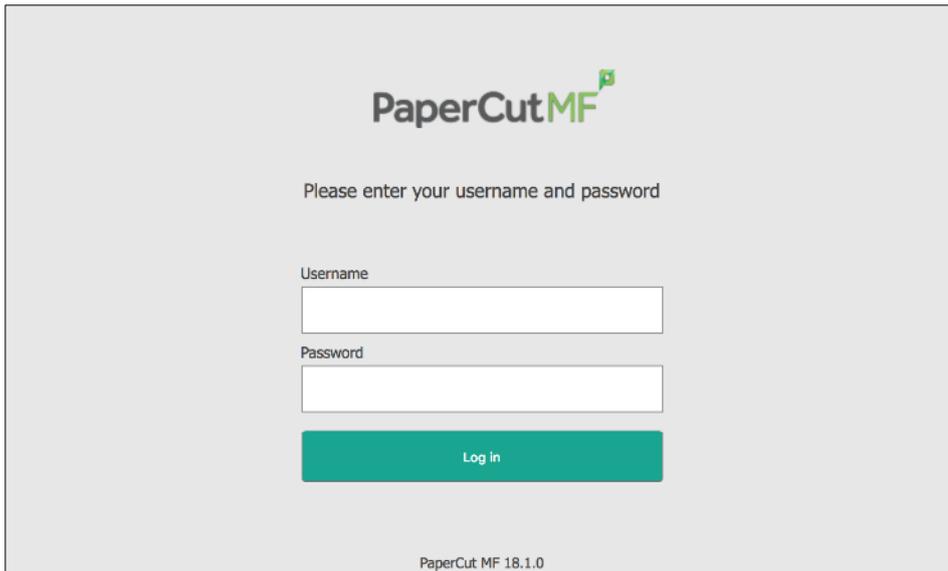


10. Verify that the **Control access to this account > Groups** area displays **[All Users]**:



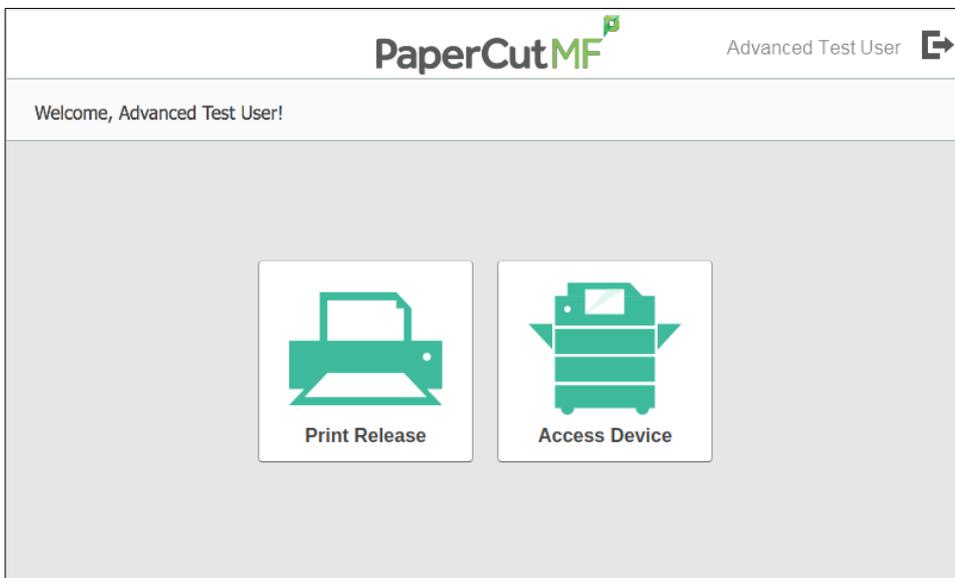
To test advanced copying:

1. Log in to the device as the advanced test user:



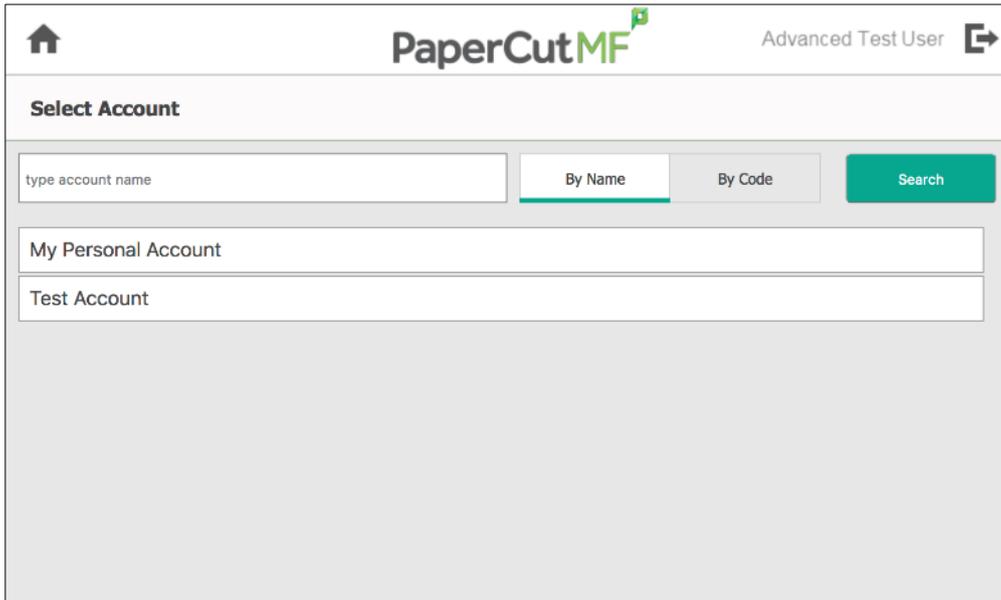
The image shows the login interface for PaperCut MF. At the top center is the PaperCut MF logo. Below it, the text "Please enter your username and password" is displayed. There are two input fields: "Username" and "Password". Below the password field is a green "Log in" button. At the bottom center, the version number "PaperCut MF 18.1.0" is visible.

2. Select **Access Device**:

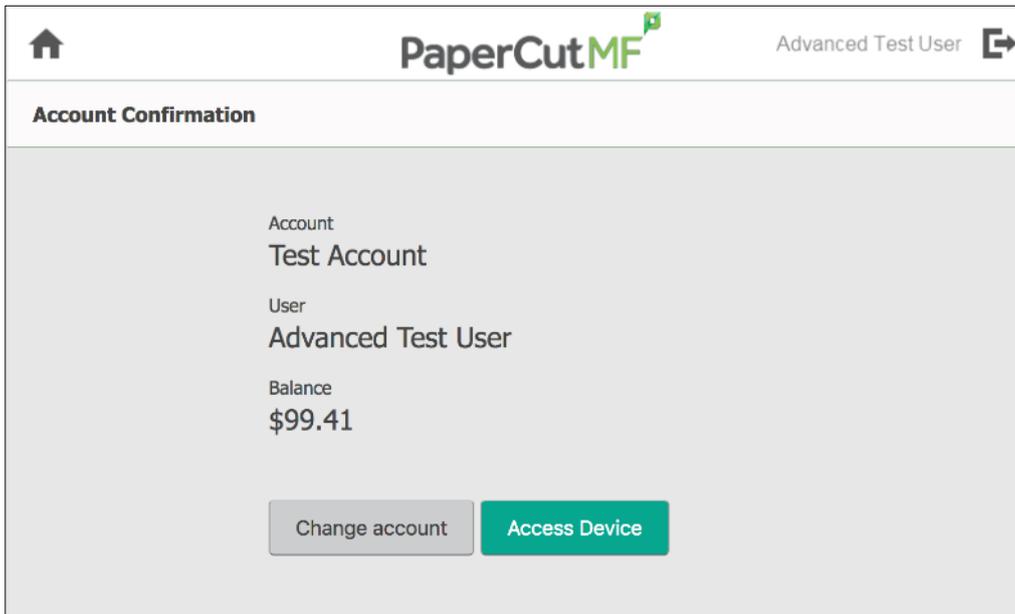


The image shows the dashboard for the "Advanced Test User". At the top, the PaperCut MF logo is on the left, and "Advanced Test User" with a user icon is on the right. Below the header, a welcome message "Welcome, Advanced Test User!" is displayed. The main area contains two large icons: "Print Release" (represented by a printer icon) and "Access Device" (represented by a copier icon).

3. Verify that the PaperCut MF Select Account screen provides the advanced test user with a choice of accounts to choose from:



4. Select the required account, test account.
5. Verify that the PaperCut MF Account Confirmation screen displays the selected account, test account, but continues to provide the advanced test user with the option of changing the account:



6. Click **Access Device**.
Copying is charged to the account selected by the advanced test user, test account.
7. Select **Copy**.
8. Complete copying by following the device's workflow.
9. Log out of the device.
10. Log in to the PaperCut MF Admin web interface.
11. Navigate to **Logs**.
12. After copying is completed, verify that **Job Log** page displays the test user's name, advanced test user, in the **User** column and the selected account's name, test account, in the **Charged**

To column:

DATE	USER	CHARGED TO	PRINTER	PAGES	COST	DOCUMENT NAME	ATTRIBS	STATUS
Jan 5, 2018 4:04:20 PM	advancedtestuser	Test Account	device/Library 5	1 (Color: 0)	\$0.05	[copying]	M (ISO_A4) Duplex: No Grayscale: No	Printed refund edit

13. Log out of the PaperCut MF Admin web interface.

4 Configuration

PaperCut MF is installed on the device with default settings, which are reasonable for most environments. However, these settings can be further tweaked to suit your environment.

This section covers the configuration changes that can be made to the default settings of *PaperCut MF - Fuji Xerox ApeosPort V+*.

4.1 Inbound connections

4.1.1 Inbound connections to PaperCut MF Application Server

To configure PaperCut MF to allow inbound connections from the device to the PaperCut MF Application Server, use the config key **system.network-address**. For more information, see [4.11 Config Editor](#).

4.1.2 Inbound connections to PaperCut MF Site Servers

To configure PaperCut MF to allow inbound connections from the device to PaperCut MF Site Servers:

1. Site Servers must already be installed and configured. For more information, see the [PaperCut MF manual](#)
2. Log in to the PaperCut MF Admin web interface.
3. Navigate to **Sites**.
4. Select the Site Server.
5. In the **Configuration** area, enter the IP address or DNS name of the PaperCut MF Site Server that the device uses to make inbound connections.
6. Click **Apply**.

4.2 Additional network security

By default, the PaperCut MF Application Server allows device connections from any network address. However, communication between the PaperCut MF Application Server and the device can be further restricted to a set range of network addresses. This provides an additional level of security and ensures that only approved devices are connected to the PaperCut MF Application Server.

To restrict communication between the PaperCut MF Application Server and the device to a subset of IP addresses or subnets:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Options > Advanced**.
3. In the **Security** area's field **Allowed device IP addresses**, enter a comma-separated list of device IP addresses or subnets (<ip-address1 or subnet-mask1>, <ip-address2 or subnet-mask2>).
4. Click **Apply**.

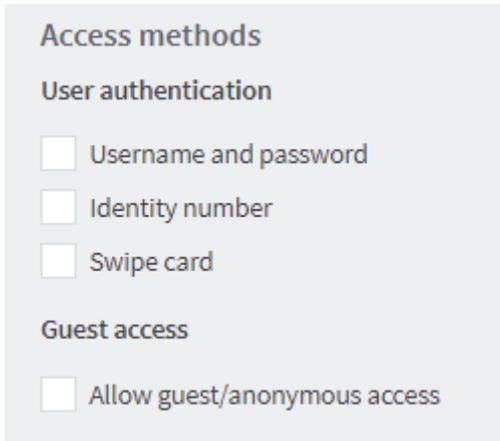
4.3 User authentication options

PaperCut MF provides you with several authentication methods to authenticate users when logging in to PaperCut MF on the device.

To configure the device’s user authentication:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the device.

The available authenticate methods are in the **Device Details** page’s **External Device Settings** area:



Note: You may use any one or a combination of all the available authentication methods, including the guest and anonymous access authentication methods.

The available user authentication options are:

User authentication option	Description
Username and password	This is the default authentication option. With this option, users use their domain/network username and password.
Identity number	With this option, users use their ID number. For more information, see the PaperCut MF manual . <ul style="list-style-type: none"> • Require PIN: With this option, users use their id number and the PIN associated with the id number. Note: Users can use an id number with or without a pre-set and associated PIN. If using an id number without a pre-set and associated PIN, users are prompted to set a valid PIN to associate with the id number.
Swipe card	With this option, users use their registered swipe card (e.g. magnetic strip, smart card, RFID). For more information, see the PaperCut MF manual .

Note: If you select this option, then see [4.4 User authentication via swipe cards](#).

- **Require PIN:** With this option, users use their registered swipe card and the PIN associated with the card.

Note: Users can use a swipe card with or without a pre-set and associated PIN. If using a swipe card without a pre-set and associated PIN, users are prompted to set a valid PIN to associate with the swipe card.

- **Enable self-association with existing user accounts:** With this option, users can use a registered swipe card or a new, unregistered swipe card. If using new, unregistered swipe cards, users are prompted to complete card self-association using their username and password (i.e. associating a new unregistered card with a required, valid user account). After card self-association is completed, subsequent use of the registered swipe card does not require users to enter their credentials. You may use the config keys: **ext-device.card-self-association.use-secondary-card-number** and **ext-device.self-association-allowed-card-regex**. For more information, see [4.11 Config Editor](#).

Allow guest/anonymous access

With this option, you may choose to activate **guest** or **anonymous access**, enabling users to be authenticated as a guest user or an anonymous user, as per the user specified in the **Inherit settings from user** field.

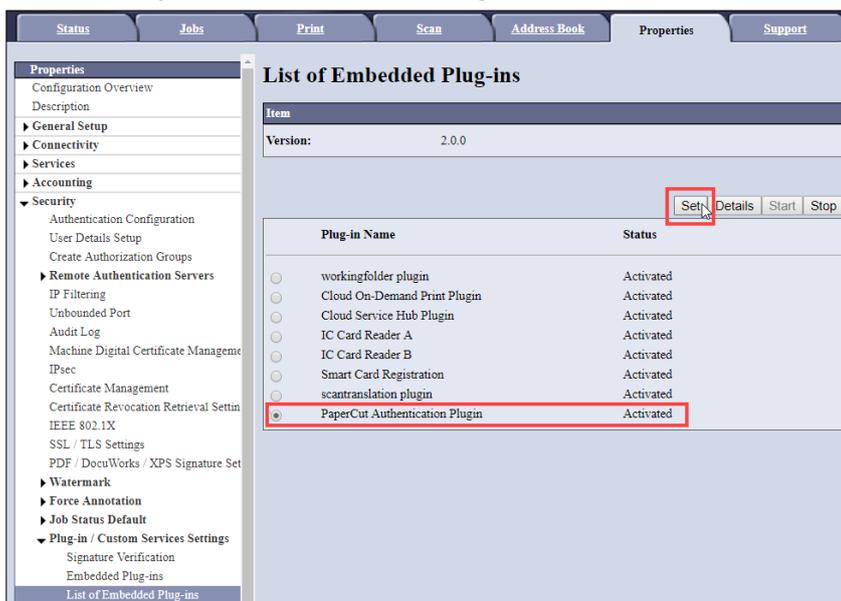
- **Inherit settings from user:** Enter the username of the PaperCut MF user's profile that is used while authenticating users as a guest user or an anonymous user on the device.
- **Guest access** - Selecting **Allow guest/anonymous access** *and also* selecting one or more of the other options (Username and password, Identity number, Swipe card), activates **Guest access**. With this option:
 - A **Guest** button, which may be customized, is displayed on the PaperCut MF Login screen on the device, together with the other options selected.
Note: To customize the text of the **Guest** button that appears on the PaperCut MF Login screen, use the config key **ext-device.fuji_xerox_aip.guest-access.label**. For more information, see [4.11 Config Editor](#).

- A user clicking this **Guest** button is authenticated as a guest user, as per the user specified in the **Inherit settings from user field**.
- **Anonymous access** - Only selecting **Allow guest/anonymous access** *without* selecting any other option, activates **Anonymous access**. With this option:
 - A user is authenticated as an anonymous user, as per the user specified in the **Inherit settings from user field**.
 - This anonymous user can view held print jobs belonging to all users.

4.3.1 Duration of PaperCut MF's user authentication process

PaperCut MF's user authentication process on the device starts from when a user is detected as being active on the PaperCut MF Login screen to when the user accesses a device job (such as, scan, copy, fax, or on-device print job). To configure the interval of time (milliseconds) for the completion of PaperCut MF's user authentication process:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > Plug-in / Custom Services Settings > List of Embedded Plug-ins**.
3. Select the **PaperCut Authentication Plugin**; then click **Set**:



4. On the **PaperCut Plugin Configuration** screen's **Configuration property** field, enter the required interval of time in milliseconds for the completion of PaperCut MF's user authentication process.
The default value is 5000 milliseconds (i.e. 5 seconds).

PaperCut Plugin Configuration

Configuration property	Value
<code>plugin.login.in-progress-time-millis</code>	<input type="text" value="5000"/>

Note: If this is not configured as required, clicking the PaperCut MF icon on the device does not display the required PaperCut MF screen. For more information, see [6.8 Clicking the PaperCut MF icon does not display the PaperCut MF screen](#).

4.4 User authentication via swipe cards

If the **Swipe card** authentication option is selected (see [4.3 User authentication options](#), [4.4.2 Handling card identifiers](#)), then:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > Smart Card Settings > General:**

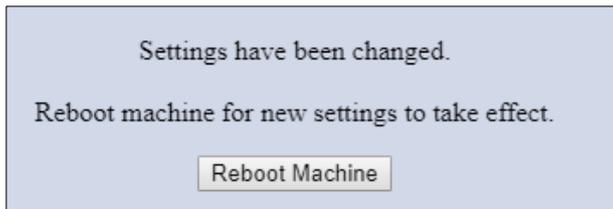
The screenshot shows the 'Smart Card Settings' page in the PaperCut MF web interface. The 'Properties' tab is active, and the 'Security' menu item is expanded to show 'Smart Card Settings' with 'General' selected. The 'Smart Card' dropdown is set to 'Disabled' and 'Smart Card Log In / Out Tone' is checked 'Enabled'. There are 'Apply' and 'Undo' buttons.

3. In **Smart Card**, select **Enabled:**

Smart Card:

4. Click **Apply**.

5. Click **Reboot Machine**:



6. Access the physical device.
7. Connect the supported card reader (see [4.4.1 Supported card readers](#)).

Note: If the device has USB ports on both its front and rear panel, it is recommended that the USB ports on the device's rear panel be used to plug in card readers, instead of the USB ports on the front panel. This is to allow the USB ports on the front, visible panel to be used by users for USB media.

4.4.1 Supported card readers

PaperCut MF - Fuji Xerox ApeosPort V+ supports the following configured and compatible card readers:

- IC Card Reader A
Note: Ensure that keyboard wedge mode is NOT enabled.
- IC Card Reader B (Omnikey5127CK-MINI)
Note: This is the recommended card reader.
- HID Omnikey 5427 - External Type

4.4.2 Handling card identifiers

By default, PaperCut MF handles each card's unique identifier using the following pre-configured method:

- Cards whose identifiers consist of a number followed by special character and a checksum, are modified to include only the number (the special character and everything after it is ignored). This extracted, shortened identifier is used to identify the card and the corresponding user within PaperCut MF. For example, a card with the unique identifier 5235092385=8 is modified to 5235092385.

You can also tweak the way PaperCut MF handles each card's identifier by using any of the following methods:

- Using utility or configuration tools directly on the card reader's hardware.
- Using third party applications to decrypt card identifiers. For more information, contact your reseller or Authorized Solution Center.
- Using the following methods within PaperCut MF:
 - Regular expression filters
 - Converters (standard format converters and custom JavaScript converters)
Note: If you use both an expression *and* a converter, then the card's identifier is handled first by the expression and then further by the converterVerify the results of the expressions, converters, or both applied using the PaperCut MF Admin web interface's **Application Log**.

4.4.2.1 Regular expression filters

To extract card identifiers using regular expression filters, use the config keys **ext-device.self-association-allowed-card-regex** and **ext-device.card-no-regex**. For more information, see [4.11 Config Editor](#).

Some regular expression filters include:

Expression	Description	Example
<code>(.{10})</code>	Extract the first 10 characters	AST%123456789 is modified to AST%123456
<code>(\d{5})</code>	Extract the first 5 numbers	AST%123456789 is modified to 12345
<code>\d*=(\d*)=\d*</code>	Extract only the numbers between the 2 special characters	123453=292929=1221 is modified to 1234532929291221

For more information, see www.regular-expressions.info.

4.4.2.2 Standard format converters

To modify card identifiers using standard format converters, use the config key **ext-device.card-no-converter**. For more information, see [4.11 Config Editor](#).

Some examples of standard format converters are:

Converter	Description	Example
hex2dec	Convert a hexadecimal (base 16) encoded card identifier to the decimal format. Note: Hexadecimal numbers usually contain 0-9 and A-F.	946EBD28 is modified to 2490285352
dec2hex	Convert a decimal encoded card identifier to the hexadecimal format.	2490285352 is modified to 946EBD28
ascii-enc	Unpack an ASCII encoded card identifier to its encoded ASCII number.	3934364542443238 is modified to its ASCII code 946EBD28.
ascii-enc hex2dec	First unpack an ASCII encoded card identifier to its encoded ASCII number. Then convert it to the decimal format. Note: Use a delimiting pipe () to chain or pipeline converters.	

4.4.2.3 Custom JavaScript converters

To use a custom JavaScript converter:

1. Create a JavaScript file. For example:
[install-path]/server/custom/card.js
2. Define a single JavaScript function in this file called **convert**. It must accept and return a single string. For example:

```
function convert(cardNumber) {  
    return cardNumber.substring(3,10).toLowerCase();  
}
```
3. Include a converter in the form: **javascript:custom/card.js**
4. Optionally, include a JavaScript script in the pipeline. For example:
ascii-enc|hex2dec|javascript:custom/card.js
5. Verify the JavaScript converter from the following log:
[install-path]/server/log/server.log
6. Use the config key **ext-device.card-no-converter** to modify card identifiers using custom JavaScript converters. For more information, see [4.11 Config Editor](#).

4.5 SNMP

PaperCut MF uses SNMP to:

- [block the release of jobs to the device when it is in error](#), and
- [retrieve the device's printer toner levels](#).

By default, PaperCut MF uses SNMPv1/v2c to perform these actions. You can, however, select to use SNMPv3 for better security and encryption.

For more information about SNMP, see the [PaperCut MF manual](#).

To configure PaperCut MF to use SNMP:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the device.
4. In the **External Device Settings**, to enable PaperCut MF to use:
 - SNMPv1/v2c, ensure the **Use SNMPv3 for Toner Retrieval and Device Error Monitoring** checkbox is not selected (default).
 - SNMPv3, select the **Use SNMPv3 for Toner Retrieval and Device Error Monitoring** checkbox; and enter the following fields:
 - **Context name, Username, Privacy password, Authentication password** - If these values are available at the device web interface, then use the same values. If not, leave them blank or enter your own value.
 - **Authentication protocol** – Select either **MD5** or **SHA**.
 - **Privacy protocol** – Select either **DES** or **AES**.
5. Click **Apply**.

4.6 Secure Print Release

Secure Print Release causes all print jobs to be held at the device until a user releases the job. If the device is configured with Secure Print Release, then when releasing held print jobs, users can select the following:

- [the account](#)
- [the job attributes](#)

To configure Secure Print Release:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the required device.
4. In the **Print Release** area, select **Enable print release**.
5. In the **This device will display jobs for release from the selected source queues**, select the required Hold/Release queue. For more information, see the [PaperCut MF manual](#).

Note: Ensure this does not contradict the settings configured on the device's web interface. For more information, see [2.4.10 Configure the device's user access permission settings](#) [2.4.11 Configure the device's accounting and billing settings](#).

4.6.1 User selection of an account

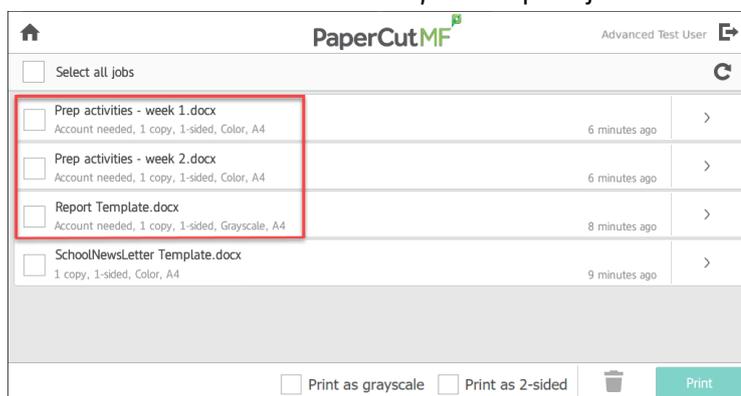
All print jobs must be allocated to an account before they can be released (printed). This account can be either:

- a user's personal account, or
- a shared account for cost center, faculty, or client billing purposes.

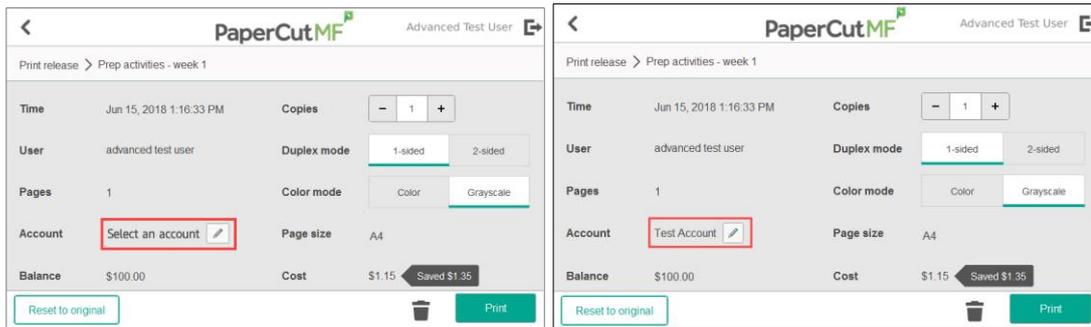
Users can allocate an account to a print job via the User Client and/or at the device. For more information about configuring cost allocation for users, see the [PaperCut MF manual](#).

At the device, users can:

- allocate the same account to *multiple* held print jobs without an account:



- allocate an account to a *single* held print job without an account or change a previously allocated account:



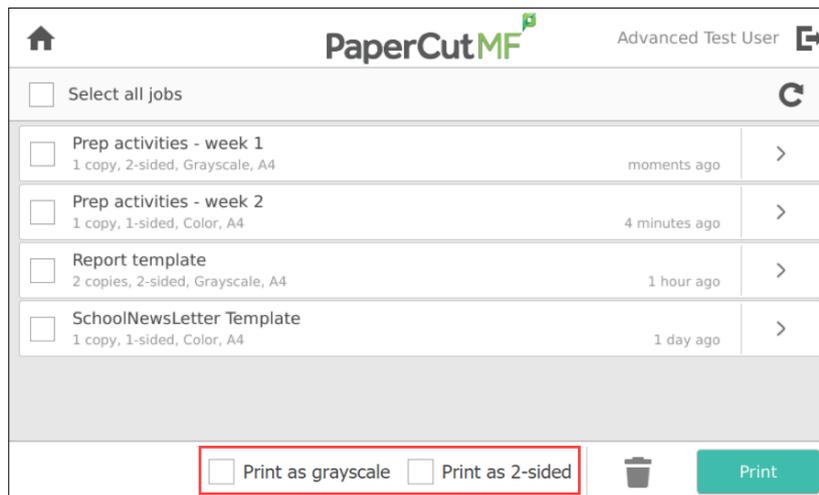
Note: By default, PaperCut MF allows users to select accounts at the device. However, you also have the option of disabling this. For more information, see the [PaperCut MF manual](#).

4.6.2 User selection of job attributes

PaperCut MF allows users to change the attributes of held print jobs at the device, before releasing (printing) them. Based on the changes made, PaperCut MF shows the updated cost and savings, to give immediate positive feedback to the user, encouraging behavior change.

Users can make the following changes to one or many jobs, simultaneously:

- **Print as grayscale** (from color to grayscale)
- **Print as 2-sided** (from 1-sided to 2-sided)



Clicking the arrow to the right of a single held print job displays all the attributes for that job, allowing users to make the following additional changes:

- **Copies**
- **Duplex mode** (from 1-sided to 2-sided)
- **Color mode** (from color to grayscale)

The screenshot shows the PaperCut MF interface for an 'Advanced Test User'. The page title is 'PaperCutMF' and the user is 'Advanced Test User'. The breadcrumb is 'Print release > Prep activities - week 1'. The settings are as follows:

Time	Jun 15, 2018 1:16:33 PM	Copies	1
User	advanced test user	Duplex mode	1-sided
Pages	1	Color mode	Grayscale
Account	Test Account	Page size	A4
Balance	\$100.00	Cost	\$1.15 (Saved \$1.35)

Buttons: 'Reset to original', 'Print'.

To toggle the display of the cost of held print jobs on the PaperCut MF Print Release and Print Settings screens on the device, use the config key `ext-device.fuji_xerox_aip.release-show-cost`. For more information, see [4.11 Config Editor](#).

Note: By default, PaperCut MF allows users to select jobs attributes at the device. However, you also have the option of disabling this. For more information, see the [PaperCut MF manual](#).

4.7 Device jobs

Device jobs include jobs initiated at the device, such as, scan, copy, fax, on-device printing.

4.7.1 Tracking device jobs

To specify the device jobs that PaperCut MF tracks and controls:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the required device.
4. In the **External Device Settings** area, select the required device jobs:
 - **Track & control copying** – PaperCut MF tracks and controls copy jobs and on-device print jobs
 - **Track & control scanning** – PaperCut MF tracks and controls scan jobs
 - **Track & control faxing** – PaperCut MF tracks and controls fax jobs

Note: Ensure this does not contradict the settings configured on the device's web interface.

For more information, see [2.4.10 Configure the device's user access permission settings](#)

[2.4.11 Configure the device's accounting and billing settings](#).

4.7.2 User selection of an account

If tracked device jobs (scan, copy, fax, on-device printing) are also being charged, then users must allocate them to an account.

This account can be either:

- a user's personal account, or
- a shared account for cost center, faculty, or client billing purposes.

The options available to users at the device, is based on the way users and the device are configured:

- For more information about configuring cost allocation for users, see the [PaperCut MF manual](#).
- To toggle the display of the PaperCut MF Account Confirmation screen, use the **Show account confirmation** checkbox on the PaperCut MF Admin web interface (**Devices Details > Summary > External Device Settings > Device Options**).
- To toggle the display of the PaperCut MF Select Account screen, use the config key **ext-device.fuji_xerox_aip.account-selection.bypass-for-default-account**. For more information, see [4.11 Config Editor](#).

4.7.3 Job costs and account balances (Zero Stop)

When printing, if a restricted user's account balance is insufficient to cover the cost of the user's entire print job, PaperCut MF prevents the user from being able to start the print job. This ensures that the restricted user's account balance never drops below zero for print jobs.

When scanning, copying, faxing, or on-device printing, PaperCut MF calculates the cost of a single page (i.e. the Reference Page Cost, which is based on configured values). Using this Reference Page Cost, PaperCut MF calculates the number of reference pages that the restricted user's account balance will allow (i.e. the maximum number of Reference Pages Allowed). As a result:

- If restricted user's account balance is insufficient for even one Reference Page Allowed, then PaperCut MF prevents the user from being able to start a scan, copy, fax, or on-device print job.
- If restricted user's account balance is sufficient for at least one Reference Page Allowed, then PaperCut MF allows the user to start a scan, copy, fax, or on-device print job.

As the job is in progress, if the maximum number of Reference Pages Allowed is reached, then PaperCut MF:

- stops the job,
- prevents it from being completed, and
- deletes the job from the device's Job Status screen.

This ensures that the restricted user's account balance never drops below zero for scan, copy, fax, or on-device print jobs. For more information, see [4.7.3.1 Reference Page Cost and maximum number of Reference Pages Allowed](#).

Further restrictions can also be applied to restricted users to prevent their account balances from dropping below zero. For more information, see [4.7.3.2 Job Limits](#).

4.7.3.1 Reference Page Cost and maximum number of Reference Pages Allowed

To configure the Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for scan, copy, fax, or on-device print jobs, use the following config keys:

- **ext-device.fuji_xerox_aip.limit-reference.duplex**
- **ext-device.fuji_xerox_aip.limit-reference.paper-size**

For more information, see [4.11 Config Editor](#).

Note: This Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for scan, copy, fax, or on-device print jobs, has some limitations. For more information, see [5.2 Limitations of the configured Reference Page Cost and maximum number of Reference Pages Allowed](#).

4.7.3.2 Job Limits

To further prevent restricted users' account balances from dropping below zero, you can use the config key **ext-device.fuji_xerox_aip.login.job-limits**. For more information, see [4.11 Config Editor](#)

4.7.4 Device's scanning

Ensure that the following are configured as required:

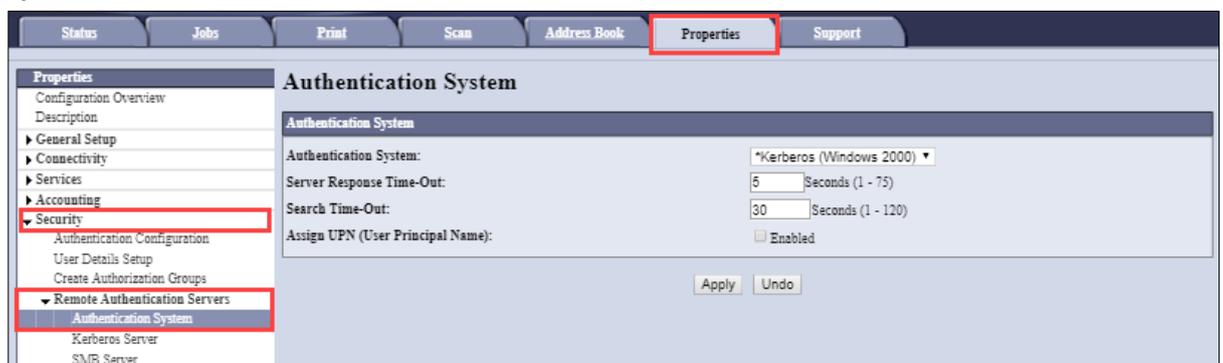
- [4.7.4.1 Device's Scan to PC](#)
- [4.7.4.2 Device's Scan to Email](#)

4.7.4.1 Device's Scan to PC

To enable users to use **Scan to PC** on the device, you must:

1. Ensure that users' email addresses are already configured while creating and configuring users in PaperCut MF (**Users > User List > User Details > Primary email**).
2. Use the config key **ext-device.fuji_xerox_aip.home-directory.personalized** to auto-populate the configured user home directory network path on the device's **Scan to PC**. For more information, see [4.11 Config Editor](#).
3. Log in to the device's web interface as an administrator.
4. Navigate to **Properties > Security > Remote Authentication Servers > Authentication System**:

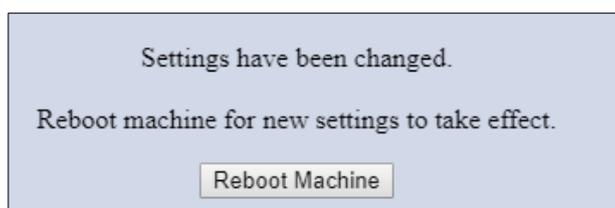
System:



5. In **Authentication System**, select **Authentication Agent**:



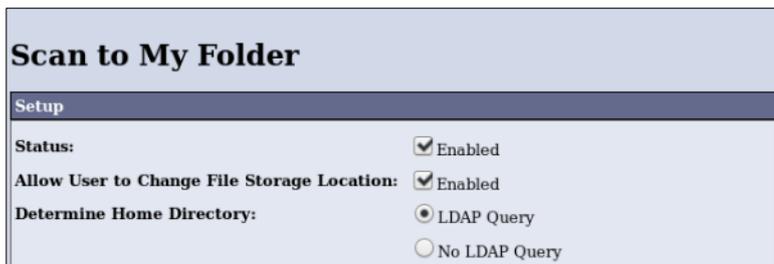
6. Click **Apply**.
7. Click **Reboot Machine**:



- Navigate to **Properties > Services > Scan to My Folder > General**:



- In **Status**, select **Enabled**.
- In **Determine Home Directory**, select **LDAP query**:



- Click **Apply**.
- Log in to the device as a test user (simple test user).
- Select **Scan to PC**:



- Verify that the **Scan to PC** screen displays the user home directory network path as configured in PaperCut MF:



4.7.4.2 Device's Scan to Email

To auto-populate users' email addresses that are already configured while creating and configuring users in PaperCut MF (**Users > User List > User Details > Primary email**) on the device's **Scan to Email**, use the config key `ext-device.fuji_xerox_aip.email.personalized-sender`. For more information, see [4.11 Config Editor](#).

4.7.5 PaperCut MF's Integrated Scanning

To enable users to use PaperCut MF's Integrated Scanning:

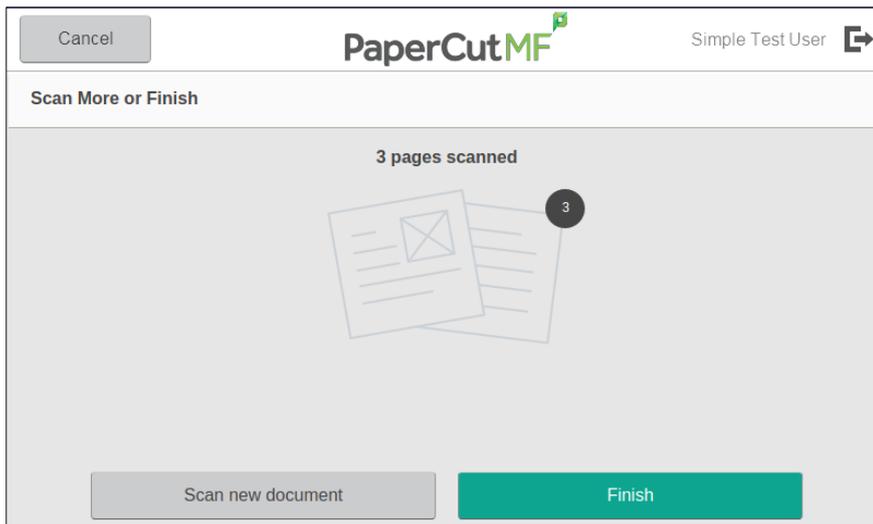
- Configure it on the PaperCut MF Admin web interface.
For more information, see [Integrated Scanning](#) or the [PaperCut MF manual](#)
- Depending on the needs of your environment, you may need to change the default settings of the following config keys:
 - `ext-device.fuji_xerox_aip.scan.prompt.checkbox.checked`
 - `ext-device.fuji_xerox_aip.timeout.scan-transfer.mins`
 - `ext-device.fuji_xerox_aip.timeout.scan-interrupted.secs`
 - `ext-device.fuji_xerox_aip.timeout.scan-prompt-send.secs`
 - `ext-device.fuji_xerox_aip.timeout.complete-scan-job.secs`

For more information, see [4.8 Timeouts](#), [4.11 Config Editor](#).

4.7.5.1 Integrated scan workflow

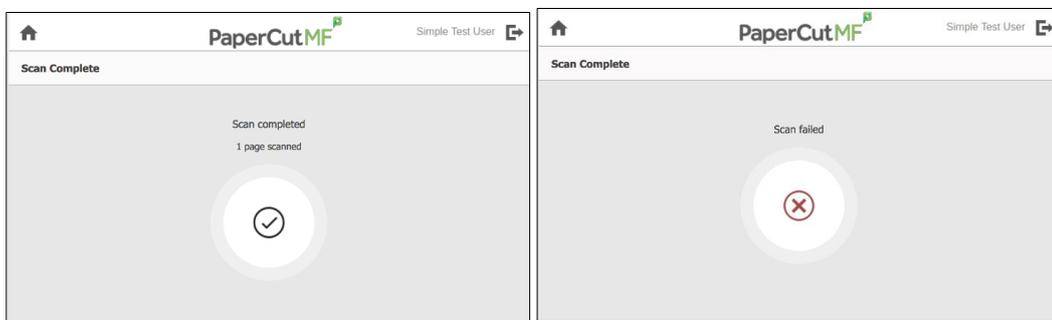
If Integrated Scanning is enabled, then you can use the config key `ext-device.fuji_xerox_aip.scan.prompt.checkbox.checked` to specify whether the **Prompt for more pages** checkbox on the Scan Details screen and the Scan Settings screen, is checked or unchecked by default (See [4.11 Config Editor](#)).

- A checked **Prompt for more pages** checkbox enables the device to display the Scan More or Finish screen, providing users with the ability to start new scan jobs retaining the current scan job's settings and account selection attributes:



Note: To specify the user inactivity timeout on this screen, use the config key `ext-device.fuji_xerox_aip.timeout.scan-prompt-send.secs`. For more information, see [4.8 Timeouts](#), [4.11 Config Editor](#).

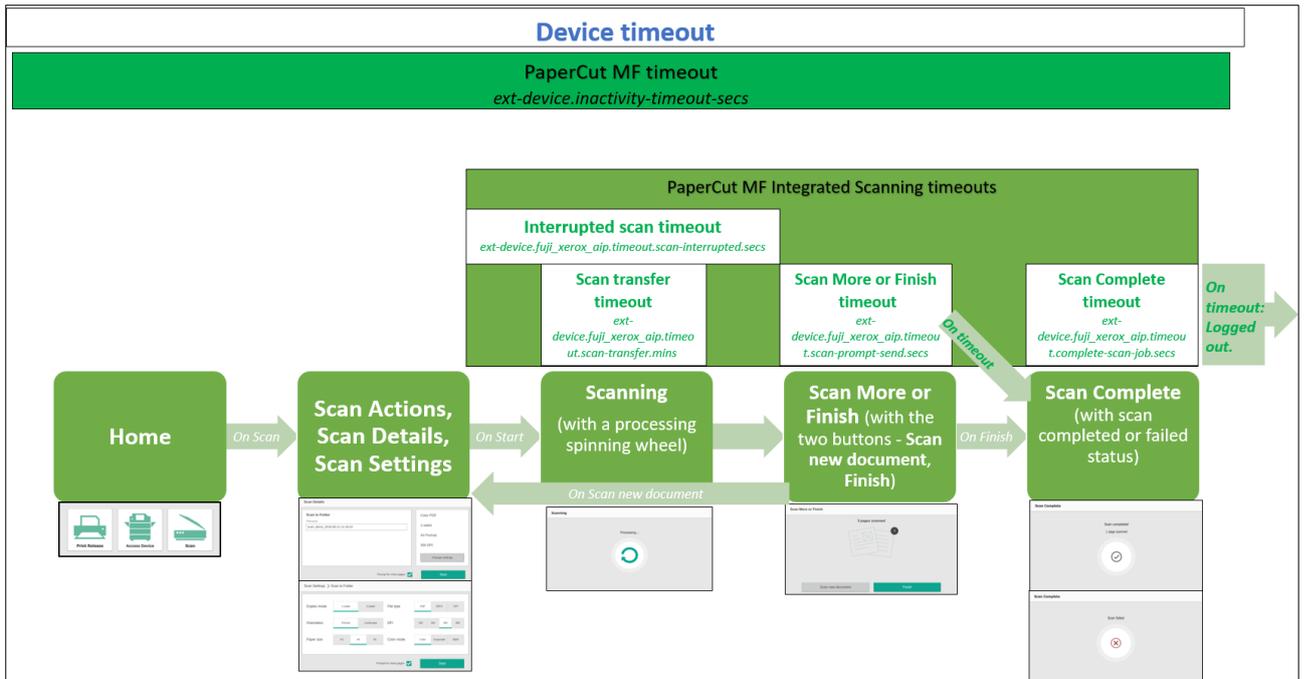
- An unchecked **Prompt for more pages** checkbox enables the device to complete the current scan and send it to the user (scan transfer).



Note: To specify the user inactivity timeout on this screen, use the config key `ext-device.fuji_xerox_aip.timeout.complete-scan-job.secs`. For more information, see [4.8 Timeouts](#), [4.11 Config Editor](#).

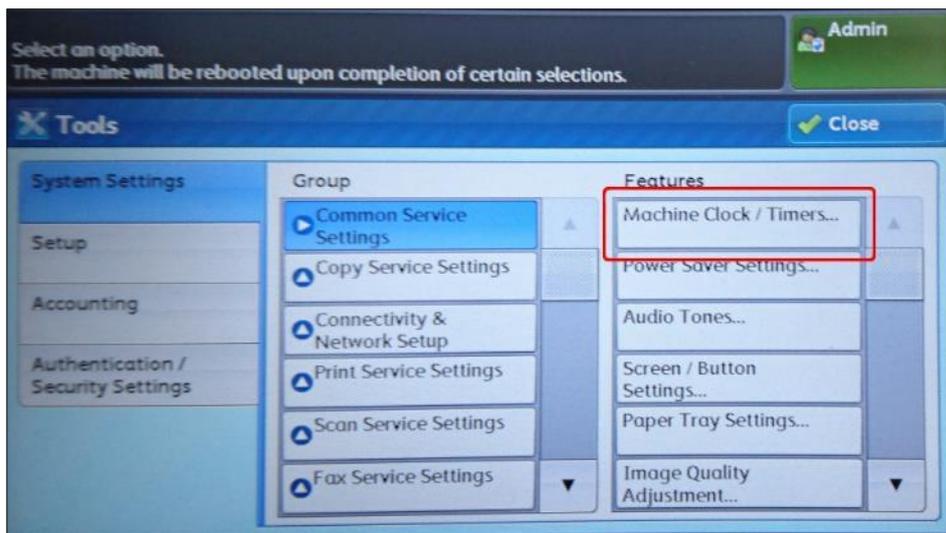
4.8 Timeouts

A user who is detected as being idle (on a PaperCut MF screen or a non-PaperCut MF device screen) is automatically logged out after a certain interval of time, based on the following conditions:

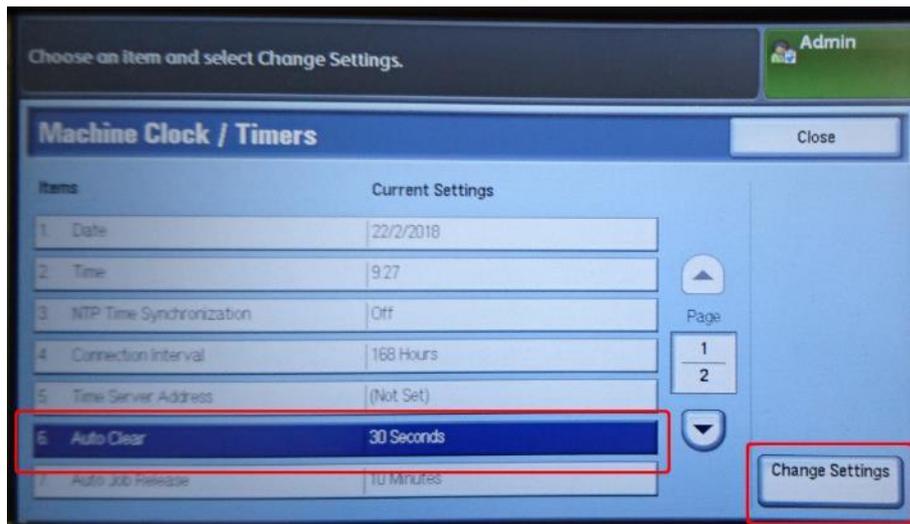


- **Device timeout** - If the user is idle on a non-PaperCut MF device screen, then the user is logged out based on the device's timeout.
 - To configure the device's timeout on the device:
 - a. Log in to the device as an administrator.

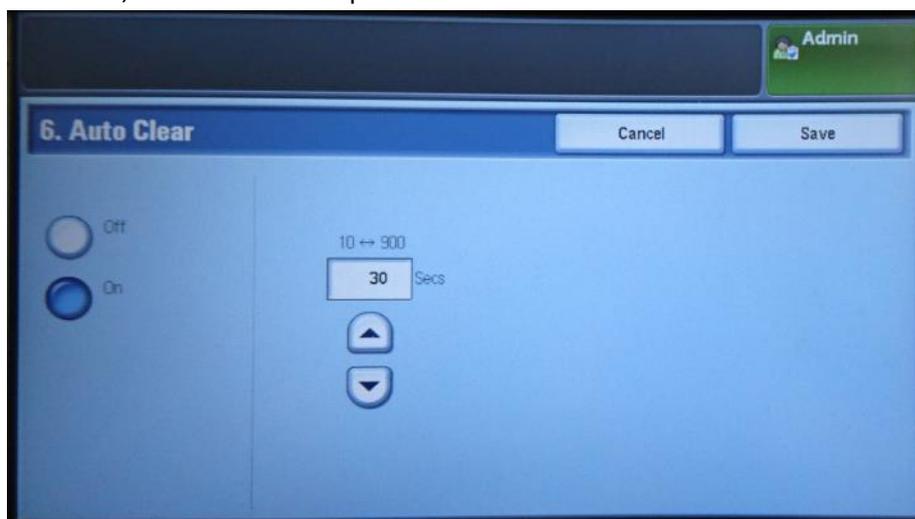
Note: For more information, see [6.12 Accessing administrative jobs](#).
 - b. Navigate to **Tools > System Settings > (Group) Common Service Settings > (Features) Machine Clock / Timers:**



- c. Select **Auto Clear**; then click **Change Settings**:



- d. Select **On**; then enter the required device timeout:



Note: If the user is idle on a non-PaperCut MF device screen, then the user is logged out based on this value. However, if the user is idle on a PaperCut MF screen and if this value is lower than the PaperCut MF timeout (the config key **ext-device.inactivity-timeout-secs**), then the user is logged out based on this value (i.e. this value supersedes and overrides the higher value of the config key). For more information, see [4.8 Timeouts](#) and [4.11 Config Editor](#).

- e. Click **Save**.
- **PaperCut MF timeout** - If the user is idle on a PaperCut MF screen, then the user is logged out based on the config key **ext-device.inactivity-timeout-secs** or the device's timeout, whichever has the lower value. For more information, see [4.11 Config Editor](#).
 - **PaperCut MF integrated scanning timeouts** – If the user is using Integrated Scanning, then timeouts are based on the following config keys:
 - **PaperCut MF scan transfer timeout** - ext-device.fuji_xerox_aip.timeout.scan-transfer.mins
 - **PaperCut MF interrupted scan timeout** - ext-device.fuji_xerox_aip.timeout.scan-interrupted.secs

- **PaperCut MF Scan More or Finish timeout** - ext-device.fuji_xerox_aip.timeout.scan-prompt-send.secs
- **PaperCut MF Scan Complete timeout** - ext-device.fuji_xerox_aip.timeout.complete-scan-job.secs

For more information, see [4.7.5.1 Integrated scan workflow](#), [4.11 Config Editor](#)

4.9 Screen headers

4.9.1 Header colors

To customize the colors (background and text) of the headers on all PaperCut MF screens:

1. Use the following config keys:
ext-device.fuji_xerox_aip.ui.header-color
ext-device.fuji_xerox_aip.ui.header-text-color
For more information, see [4.11 Config Editor](#).
2. Log in to the device as a test user (simple test user).
3. Verify that the device's header background and text colors are as required.

4.9.2 Header logo

To customize the logo on the headers of all PaperCut MF screens:

1. Create the device's header logo as per the following specifications:
 - Image height = 50 pixels
 - Image width = 360 pixels
 - Image file format = .png
 - Image filename = logo.png
 - Image file location = [PaperCut Install Location]\server\custom\web\device\fx-apeos-vi\
2. Log in to the device as a test user (simple test user).
3. Verify that the device's header logo is as required.

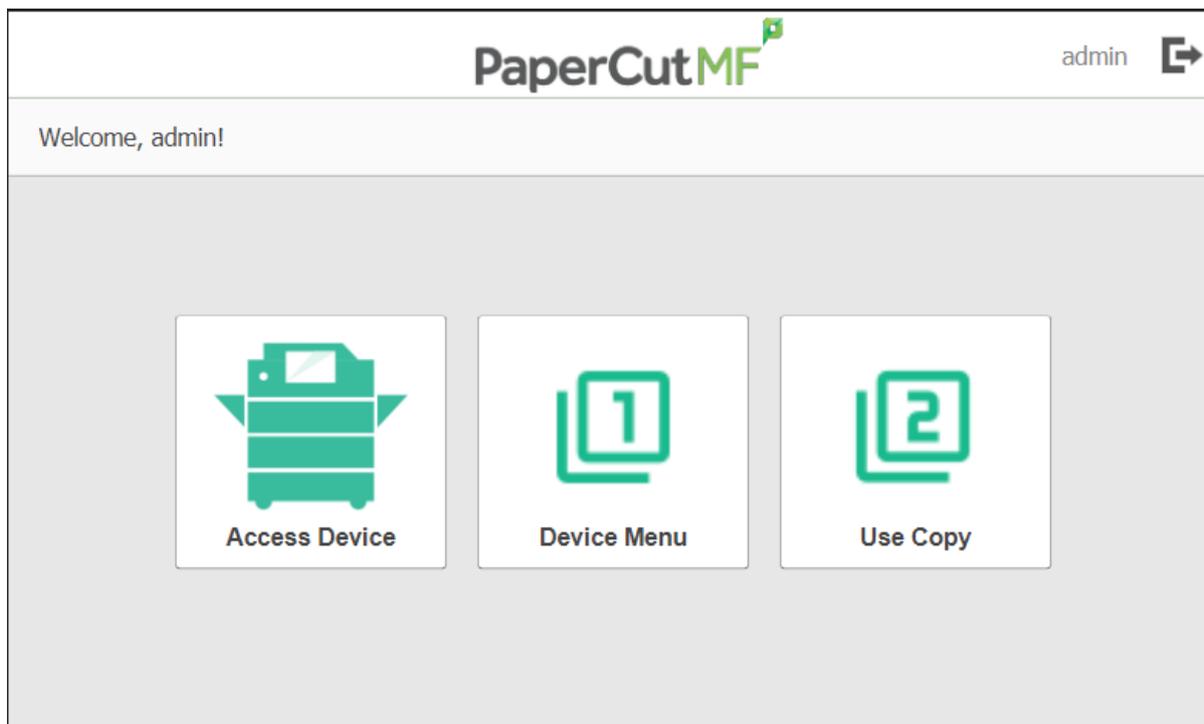
4.10 Home Screen Customization

PaperCut MF allows you to specify native device functions or third-party applications that will be displayed on the home screen along with any PaperCut functions that you have enabled. Using the config key **ext-device.fuji_xerox_aip.app-to-destination**, you can specify function name to display name pairs that will create new buttons on the home screen that open the specified function.

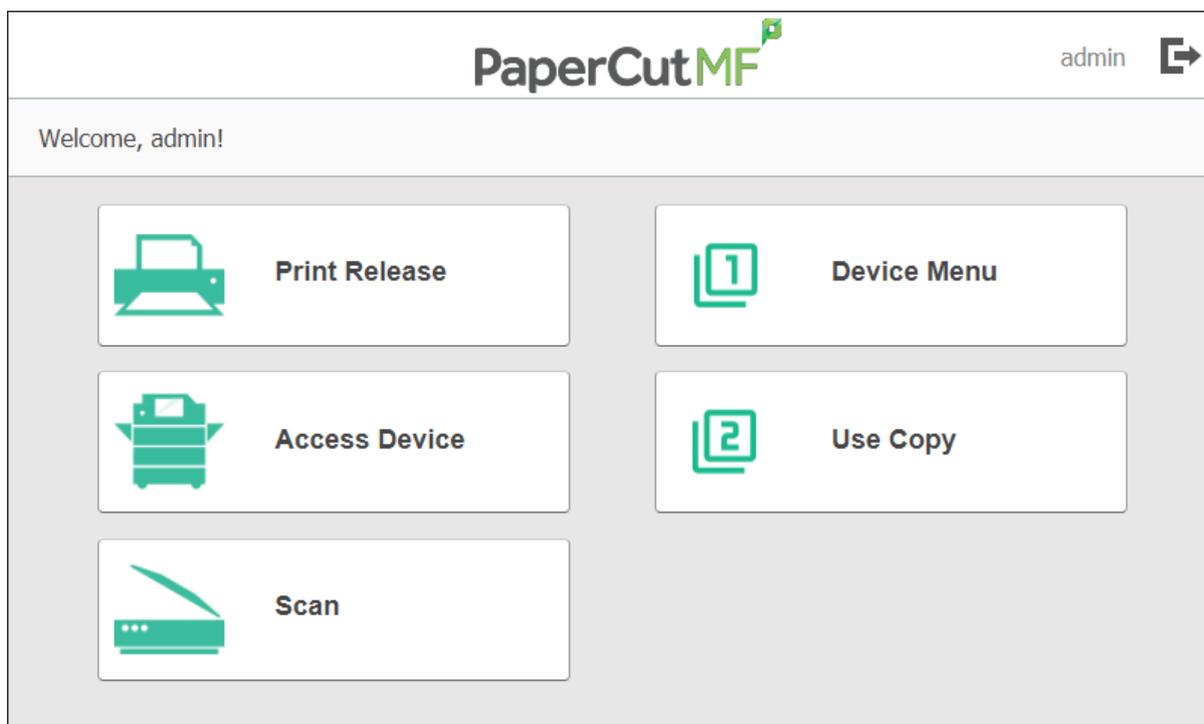
The format of the config key is as follows: {function_name, display_name}, {function_name_2, display_name_2}. Each pair will create a button on the PaperCut home screen with the specified display name and clicking on it will open the specified function.

Custom buttons will be added to the home screen in order of their definition in the config key. The following is a picture of the home screen with an example config key of {Copy, Use Copy}, {All Services, Device Menu}.

NAME ↑	VALUE		
ext-device.fuji_xerox_aip.app-to-destination	{Copy, Use Copy}, {All Services, Device Menu}	<input type="button" value="Update"/>	<input type="button" value="Remove"/>



When Integrated Scanning and Print Release are enabled with the same config key as above, the home screen will appear as follows:



Additional values that can be used in the config key can be found in [4.11 Config Editor](#).

4.11 Config Editor

PaperCut MF provides you with several global and device-specific config keys that you can modify to suit your environment. While some keys are *only* global (impacting PaperCut MF on all devices) or *only* device-specific (impacting PaperCut MF on the selected device), other keys are *both* global *and*

device-specific simultaneously. Such keys initially inherit their global settings (GLOBAL) as their default settings. However, changes made at the device-level overrides these globally inherited default settings.

To configure the device using the available global config keys (impact PaperCut MF on all devices):

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Options > Actions > Config editor (advanced)**.

Note: For more information, see the [PaperCut MF manual](#).

To configure the device using the available device-specific config keys (impact PaperCut MF on the selected device):

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the required device.
4. Click **Advanced Config**.

The available config keys are:

Config name	Description
Device screens	
ext-device.fuji_xerox_aip.locale-override	<p>Specify the default language of the device, if it is different to the language of the locale in which the device was installed.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> • Values: xx (language), xx_XX (language_region), DEFAULT For example, ja (Japanese), en_US (English_United States of America) • Default: DEFAULT (language of the locale in which the device was installed) <p>Note: Changing this config key's default value, does not change the device's currency and paper size values to correspond to the geographical locale of config key's value. For example, if the device is installed in Canada, and this config key's value is French, the device's currency does not change to Euros. It remains Canadian Dollar.</p>
ext-device.fuji_xerox_aip.ui.header-color	<p>Customize the background color of headers on all PaperCut MF screens.</p> <p>This is a device-specific config key.</p>

- Values: Valid [CSS color specifications](#) (color names or HTML RGB, HEX #rrggbb, HSL, RGBA, HSLA values), DEFAULT
- Default: DEFAULT (dark green)

Note: For more information, see [4.9.1 Header colors](#).

ext-device.fuji_xerox_aip.ui.header-text-color

Customize the text color of headers on all PaperCut MF screens.

This is a device-specific config key.

- Values: Valid [CSS color specifications](#) (color names or HTML RGB, HEX #rrggbb, HSL, RGBA, HSLA values), DEFAULT
- Default: DEFAULT (white)

Note: For more information, see [4.9.1 Header colors](#).

ext-device.fuji_xerox_aip.login-instruction

Customize text that appears on the PaperCut MF Login screen. For example, instructions to help users log in to PaperCut MF on the device.

This is a device-specific config key.

- Values: Any text, DEFAULT
- Default: DEFAULT (device-specific PaperCut MF text)

Note: To add a line break, use `\n`. For example, *PaperCut Software\nSwipe your card to log in*.

ext-device.fuji_xerox_aip.guest-access.label

Customize the text of the **Guest** button that appears on the PaperCut MF Login screen.

This is a device-specific config key.

- Values: Any text, DEFAULT
- Default: DEFAULT (Guest)

Note: This is applicable only if **guest access** is activated (the **Allow guest/anonymous access** authentication option is selected and at least any one other authentication option is also selected). For more information, see [4.3 User authentication options](#).

ext-device.fuji_xerox_aip.login.id-field.auto-focus

Toggle the auto-focus (via a blinking cursor) on the PaperCut MF Login screen's **ID number** field.

This is a device-specific config key.

- Values: Y, N, DEFAULT
- Default: DEFAULT

Note:

- This is applicable only if the **Identity number** authentication option is selected. For more information, see [4.3 User authentication options](#).
- Retaining the default setting (DEFAULT) is recommended for all devices.

ext-device.fuji_xerox_aip.ui.force-virtual-keypad

This is only applicable Fuji Xerox ApeosPort VII+ devices.

Toggle the display of the soft numeric keyboard.

This is a device-specific config key.

- Values: N, Y
- Default: N

Note:

- Setting this to N –
 - hides the soft numeric keyboard **ONLY** if the config key **ext-device.fuji_xerox_aip.login.id-field.numeric** is ALSO set to **N**.
 - is overridden (i.e. displays the soft numeric keyboard) if the config key **ext-device.fuji_xerox_aip.login.id-field.numeric** to **Y**.
- Setting this to Y –
 - displays the soft numeric keyboard.
 - overrides the **N** setting of the config key **ext-device.fuji_xerox_aip.login.id-field.numeric**

ext-device.fuji_xerox_aip.login.id-field.numeric

This is only applicable Fuji Xerox ApeosPort VII+ devices.

Toggle the display of the soft numeric keyboard for entering an ID number during user authentication.

This is a device-specific config key.

- Values: N, Y
- Default: N

Note:

- This is applicable only if the **Identity number** authentication option is selected; and users' **Identity Numbers** have only numbers. For more information, see [4.3 User authentication options](#).
- Setting this to Y –
 - displays the soft numeric keyboard on Fuji Xerox ApeosPort VII+ devices
 - overrides the **N** setting of the config key **ext-device.fuji_xerox_aip.ui.force-virtual-keypad**
 - hides the soft alpha-numeric keyboard on all devices.
- Setting this to N –
 - hides the soft numeric keyboard on Fuji Xerox ApeosPort VII+ devices **ONLY** if the config key **ext-device.fuji_xerox_aip.ui.force-virtual-keypad** is ALSO set to **N**
 - is overridden (i.e. displays the soft numeric keyboard) if the config key **ext-device.fuji_xerox_aip.ui.force-virtual-keypad** to **Y**.
 - displays the soft alpha-numeric keyboard on all devices

ext-device.fuji_xerox_aip.welcome-text

Customize text on the PaperCut MF Home screen's header (after users have successfully logged in to the device from the PaperCut MF Login screen). For example, "Hello there!".

This is a device-specific config key.

- Values: Any text, patterns using {0} for username substitution, DEFAULT
- Default: DEFAULT ("Welcome, {0}", where "{0}" is used to substitute the user's name)

Note: To add a line break, use `\n`. For example, *PaperCut Software\nHello there!*

ext-device.fuji_xerox_aip.access-device.label

Customize the text of the **Access Device** button or icon name that appears on PaperCut MF screens.

This is a device-specific config key.

- Values: Any text, DEFAULT
- Default: DEFAULT (Access Device)

ext-device.fuji_xerox_aip.integrated-scanning.label

Customize the text of the **Integrated Scanning** button or icon name that appears on PaperCut MF screens.

This is a device-specific config key.

- Values: Any text, DEFAULT
- Default: DEFAULT (Scan)

ext-device.fuji_xerox_aip.ui.initial-screen

Specify the device job that the device defaults to when users attempt to access device jobs.

This is a device-specific config key.

- Values: DEFAULT, any one of the following device jobs:
 - copy
 - copy_easy
 - box
 - scan_mbox
 - scan_email
 - scan_pc
 - scan_url
 - scan_media
 - fax
 - fax_easy
 - ifax
 - sfax
 - jobmem
 - jobflow
 - web1-10
 - cstm1-9
- Default: DEFAULT (allservice)

Note: If this config key's default value is changed, then:

- when users attempt to access device jobs, the device always defaults to the first screen that corresponds to this config key's changed value (i.e. the device job specified);
- as a result, if users need to access other device jobs, they must click the **Services Home** hard button on the device's panel.

ext-device.fuji_xerox_aip.device-functions-on-login

Configure the workflow after users have successfully logged in to the device to:

- Either, show the PaperCut MF Home screen
- Or, show the device's home screen with all the device jobs

This is a device-specific config key.

- Values: N (show the PaperCut MF Home screen), Y (show the device's home screen with all the device jobs)
- Default: N

ext-device.fuji_xerox_aip.app-to-destination

Configure the custom apps that will show on the home screen.

- Apps will appear on the home screen in the order they are defined.
- Apps are defined as pairs of function name and display name and separated by a comma:
`{function_name, display_name},`
`{function_name2, display_name2}`

This is a device-specific config key.

- Values for function name: DEFAULT, any of the following device screens:
 - All Services
 - Copy
 - Simple Copy
 - Extended Folder
 - Store to Folder
 - E-mail
 - Job Template
 - Scan to PC
 - Store & Send Link
 - Store to USB
 - BMLinkS Scan

- Internet Fax
- Media Print – Photos
- BMLinkS Print
- BMLinkS Menu
- Server Fax
- Media Print – Text
- Simple Fax
- Scan (WSD)
- Charge Print
- Delayed Print
- Stored Programming
- Job Flow Sheets
- Fax
- Private Charge Print
- Secure Print
- Sample Print
- The function name can also be set to the name of any third-party web application or custom application.
- Default: DEFAULT (no custom applications)

ext-device.fuji_xerox_aip.direct-to-release-page

When the device is configured to show the PaperCut MF Home screen, further configure the workflow to:

- Either, show the PaperCut MF Home screen
- Or, show the PaperCut MF Print Release screen

This is a device-specific config key.

- Values: N (show the PaperCut MF Home screen), Y (show the PaperCut MF Print Release screen)
- Default: N

Note:

- This is only applicable if the device is configured to show the PaperCut MF Home screen (i.e. the config key **ext-device.fuji_xerox_aip.device-functions-on-login** is set to **N**).
- Setting this to N –
 - enables the config key **ext-device.home-screen.force-show** to take effect.
- Setting this to Y –
 - is required if **Enable print release** is selected
 - enables the config key **ext-device.fuji_xerox_aip.skip-release-screen-when-no-jobs** to take effect.

ext-device.fuji_xerox_aip.skip-release-screen-when-no-jobs

When the device is configured to show the PaperCut MF Home screen and the PaperCut MF Print Release screen, further configure the workflow to:

- Either, always show the PaperCut MF Print Release screen
- Or, hide the PaperCut MF Print Release screen, if there are no held print jobs waiting to be released

This is a device-specific config key.

- Values: N (always show the PaperCut MF Print Release screen), Y (hide the PaperCut MF Print Release screen, based on other settings)
- Default: N

Note: This is only applicable if the device is configured to:

- show the PaperCut MF Home screen (i.e. the config key **ext-device.fuji_xerox_aip.device-functions-on-login** is set to **N**), and
- show the PaperCut MF Print Release screen (i.e. the config key **ext-device.fuji_xerox_aip.direct-to-release-page** is set to **Y**).

ext-device.home-screen.force-show

When the device is configured to only show the PaperCut MF Home screen, further configure the workflow to:

- Either, always show the PaperCut MF Home screen
- Or, hide the PaperCut MF Home screen, if BOTH **Enable print release** AND **Integrated Scanning** are not enabled

This is a global config key.

- Values: N (hide the PaperCut MF Home screen, based on other settings), Y (always show the PaperCut MF Home screen)
- Default: N

Note: This is only applicable if the device is configured to show the PaperCut MF Home screen (i.e. the config key **ext-device.fuji_xerox_aip.device-functions-on-login** and **ext-device.fuji_xerox_aip.direct-to-release-page** are set to **N**).

ext-device.fuji_xerox_aip.account-selection.bypass-for-default-account

Toggle the display of the PaperCut MF Select Account screen.

This is a device-specific config key.

- Values: N (show the PaperCut MF Select Account screen), Y (hide the PaperCut MF Select Account screen, based on other settings)
- Default: N

Note: Setting this to Y – hides the PaperCut MF Select Account screen when the user accesses device jobs only if:

- the user is configured with the required cost allocation option (jobs are charged to a pre-configured account by default, not requiring further user interaction),
- the device is configured to display the PaperCut MF Account Confirmation screen.

For more information, see [4.7.2 User selection of an account](#).

ext-device.fuji_xerox_aip.release-show-cost

Toggle the display of the cost of held print jobs on the PaperCut MF Print Release screens on the device.

This is a device-specific config key.

- Values: Y, N
- Default: Y

Note: Setting this to N –

- hides the account balance, and
- does not display the savings based on other changes made to held print job settings.

For more information, see [4.6.2 User selection of job attributes](#).

ext-device.fuji_xerox_aip.home-directory.personalized

Specify whether or not the device's **Scan to PC** auto-populates the configured user home directory network path.

This is a device-specific config key.

- Values: Y, N
- Default: Y

Note: This is only applicable if user' home directory network path is configured as required. For more information, see [4.7.4.1 Device's Scan to PC](#).

ext-device.fuji_xerox_aip.email.personalized-sender	<p>Specify whether or not the device's Scan to Email auto-populates the From and Sender fields with the user's email address as configured in PaperCut MF.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none">• Values: Y, N• Default: Y <p>Note: This is only applicable if users' email addresses are already configured while creating and configuring users in PaperCut MF (Users > User List > User Details > Primary email). For more information, see 4.7.4.2 Device's Scan to Email.</p>
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ext-device.fuji_xerox_aip.scan.prompt.checkbox.checked	<p>Specify the default setting of the PaperCut MF Scan screens' Prompt for more pages checkbox (checked or unchecked) and the display of the PaperCut MF Scan More or Finish screen (with the two buttons – Scan new document, Finish).</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none">• Values: Y (checked by default; can be changed by the user), N (unchecked by default; can be changed by the user)• Default: Y <p>Note: For more information, see 4.7.5.1 Integrated scan workflow.</p>
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"Swipe card" authentication option

ext-device.card-self-association.use-secondary-card-number	<p>Specify the use of the primary or the secondary card number slot to save card identifiers during card self-association.</p> <p>This is a global and device-specific config key.</p> <p>Device-specific:</p> <ul style="list-style-type: none">• Values: Y, N, GLOBAL (inherited from global settings)• Default: GLOBAL (inherited from global settings) <p>Global:</p> <ul style="list-style-type: none">• Values: N (Primary), Y (Secondary)• Default: N
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Note: This is only applicable if the **Swipe card - Enable self-association with existing user accounts** authentication option is selected. For more information, see [4.3 User authentication options](#).

ext-device.self-association-allowed-card-regex

Specify the regular expression filter to be used to validate card identifiers during card self-association.

This is a device-specific config key.

- Values: Any valid regular expression, DEFAULT
- Default: DEFAULT

Note: This is only applicable if the **Swipe card - Enable self-association with existing user accounts** authentication option is selected. For more information, see [4.3 User authentication options](#) and [4.4.2 Handling card identifiers](#).

ext-device.card-no-regex

Specify the regular expression filter to be used to extract card identifiers for authentication.

This is a global and device-specific config key.

Device-specific:

- Values: Any valid regular expression, GLOBAL (inherited from global settings)
- Default: GLOBAL (inherited from global settings)

Global:

- Values: Any valid regular expression

Note: This is only applicable if the **Swipe card** authentication option is selected. For more information, see [4.3 User authentication options](#) and [4.4.2 Handling card identifiers](#).

ext-device.card-no-converter

Specify the converters (standard format converters, custom JavaScript converters, or both) to be used to modify card identifiers for authentication.

This is a global and device-specific config key.

Device-specific:

- Values: Any valid converter (standard format converters, custom JavaScript converters, or both), GLOBAL (inherited from global settings)

- Default: GLOBAL (inherited from global settings)

Global:

- Values: Any valid converter (standard format converters, custom JavaScript converters, or both)

Note: This is only applicable if the **Swipe card** authentication option is selected. For more information, see [4.3 User authentication options](#) and [4.4.2 Handling card identifiers](#).

Job costs and account balances (Zero Stop)

`ext-device.fuji_xerox_aip.login.job-limits`

Specify whether or not Job Limits are applied on restricted users during user authentication.

This is a device-specific config key.

- Values: Y, N
- Default: Y

Note:

- This is only applicable to restricted users.
- Setting this to Y –
 - applies Job Limits on restricted users during user authentication, only if the value of the config key `ext-device.fuji_xerox_aip.logs.download-period-after-login` is *LOWER* than the value of the config key `ext-device.fuji_xerox_aip.period.ping`,
 - is recommended to ensure that restricted users' account balances do not drop below zero.

`ext-device.fuji_xerox_aip.limit-reference.duplex`

When configuring the Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for device jobs (such as, scan, copy, fax and on-device print jobs), specify whether the Reference Page used is a simplex page or a duplex page.

This is a device-specific config key.

- Values: N (simplex), Y (duplex)

- Default: N

Note: For more information, see [4.7.3.1 Reference Page Cost and maximum number of Reference Pages Allowed](#)

ext-device.fuji_xerox_aip.limit-reference.paper-size

When configuring the Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for device jobs (such as, scan, copy, fax and on-device print jobs), specify the paper size of the Reference Page used.

This is a device-specific config key.

- Values: Any valid paper size, DEFAULT
- Default: DEFAULT (Worldwide: A4; North America: Letter)

Note: For more information, see [4.7.3.1 Reference Page Cost and maximum number of Reference Pages Allowed](#).

Network resilience, security, logs, uninstallation

system.network-address

Specify the network IP address or FQDN (Fully Qualified Domain Name) of the PaperCut MF Application Server that the device uses to make inbound connections.

This is a global config key.

- Values: Network IP address or FQDN (Fully Qualified Domain Name) of the PaperCut MF Application Server used by the device for inbound connections.

Note: For more information, see [4.1.1 Inbound connections to PaperCut MF Application Server](#).

ext-device.fuji_xerox_aip.force-device-login-tries

Specify the number of attempts made by PaperCut MF to connect to the device, to establish an exclusive lock on the device when installing PaperCut MF on the device (i.e. device registration and integration).

- Values: Any positive number
- Default: 10

Note: If PaperCut MF is unable to connect to the device to establish an exclusive lock, within the configured number of attempts, then the **Device Status** displays **Device is currently in use, unable to initiate exclusive**

	<p>lock on the device, implying that PaperCut MF installation is unsuccessful because the device could not be temporarily locked. For more information, see 6.5 Device Status "Device is currently in use, unable to initiate exclusive lock on the device".</p>
ext-device.fuji_xerox_aip.force-device-login-tries-sleep-secs	<p>Specify the interval of time (seconds) between each attempt made by PaperCut MF to connect to the device, to establish an exclusive lock on the device when installing PaperCut MF on the device (i.e. device registration and integration).</p> <ul style="list-style-type: none">• Values: Any positive number (seconds)• Default: 5 (seconds)
ext-device.fuji_xerox_aip.period.error	<p>Specify the interval of time (seconds) between each attempt made by PaperCut MF to connect to the device, after encountering an error when installing PaperCut MF on the device (i.e. device registration and integration).</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none">• Values: 1-3600 (seconds)• Default: 60 (seconds)
ext-device.fuji_xerox_aip.logs.download-period-after-login	<p>Specify the interval of time (seconds) between each attempt made by PaperCut MF to connect to the device if user activity on the device is detected.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none">• Values: 1-3600 (seconds)• Default: 20 (seconds) <p>Note: Only if the value of this config key is <i>LOWER</i> than the value of the config key ext-device.fuji_xerox_aip.period.ping, is Job Limits applied on restricted users during user authentication (i.e the config key ext-device.fuji_xerox_aip.login.job-limits comes into effect).</p>
ext-device.fuji_xerox_aip.period.ping	<p>Specify the interval of time (seconds) between each attempt made by PaperCut MF to connect to the device, after successfully installing PaperCut MF on the device (i.e. device registration and integration).</p> <p>This is a device-specific config key.</p>

- Values: 1-3600 (seconds)
- Default: 300 (seconds)

Note: Only if the value of this config key is *HIGHER* than the value of the config key **ext-device.fuji_xerox_aip.logs.download-period-after-login**, is Job Limits applied on restricted users during user authentication (i.e the config key **ext-device.fuji_xerox_aip.login.job-limits** comes into effect).

ext-device.fuji_xerox_aip.force-install-plugins

Specify whether or not the version of the PaperCut MF embedded plug-in as detected on the PaperCut MF Application Server, is forced to be installed on the device, if a version mismatch is detected between the two.

This is a device-specific config key.

- Values: N, Y
- Default: N

ext-device.fuji_xerox_aip.force-install-services

Specify whether or not the version of the PaperCut MF custom service as detected on the PaperCut MF Application Server, is forced to be installed on the device, if a version mismatch is detected between the two.

This is a device-specific config key.

- Values: N, Y
- Default: N

ext-device.fuji_xerox_aip.force-install-reboot

Specify whether or not the device is forced to be rebooted if any device change is made on the PaperCut MF Admin web interface (**Devices > External Device List > Device Details**).

This is a device-specific config key.

- Values: N, Y
- Default: N

ext-device.fuji_xerox_aip.set-authentication-mode-enabled

Specify whether or not the device's user authentication mode is PaperCut MF.

This is a device-specific config key.

- Values: Y, N
- Default: Y

Note: Setting this to Y –

- sets the device's user authentication mode to PaperCut MF (i.e. the device's web interface's **Properties > Security > Authentication Configuration > Login Type** is set to **Customized Login**),
- uses PaperCut MF to authenticate users to log in to the device.

ext-device.fuji_xerox_aip.disable-conflicting-custom-services

Specify whether or not the PaperCut MF Login Screen is displayed when user authentication is required.

This is a device-specific config key.

- Values: N, Y
- Default: N

Note:

- Setting this to Y – is recommended. This is to enable the device to always display the PaperCut MF Login screen when user authentication is required in the workflow; making it convenient for users.
- Setting this to N – is not recommended. This is because, this prevents the device from displaying the PaperCut MF Login screen when user authentication is required in the workflow; making it inconvenient for users. Users need to perform an additional step to navigate to the PaperCut MF Login screen and start the process of user authentication.

ext-device.block-release-on-error.snmp-error-list

Specify the errors that will prevent jobs from being released.

This is a global config key.

- Values: DEFAULT, any one or a comma-separated combination of the following printer error types (not case sensitive):
 - lowPaper
 - noPaper
 - lowToner
 - noToner
 - doorOpen

- jammed
- offline
- serviceRequested
- inputTrayMissing
- outputTrayMissing
- markerSupplyMissing
- outputNearFull
- outputFull
- inputTrayEmpty
- overduePreventMaint
- Default: DEFAULT (noPaper, doorOpen, jammed,offline, inputTrayMissing, outputTrayMissing, markerSupplyMissing, outputFull)

ext-device.fuji_xerox_aip.integration.enabled

Specify whether or not *PaperCut MF - Fuji Xerox ApeosPort V+* is removed from the device.

This is a device-specific config key.

- Values: Y, N
- Default: Y

Note:

- Setting this to Y –
 - retains *PaperCut MF - Fuji Xerox ApeosPort V+* on the PaperCut MF Admin web interface and on the device,
 - is required when attempting to temporarily disable *PaperCut MF - Fuji Xerox ApeosPort V+* on the device (see [7.1 Disable PaperCut MF - Fuji Xerox ApeosPort V+](#))
- Setting this to N –
 - removes *PaperCut MF - Fuji Xerox ApeosPort V+* from the device, but continues to retain it on the PaperCut MF Admin web interface,
 - deactivates user authentication on the device,
 - overrides the **Authentication Access (Locked or Unlocked)** that is configured for **Installed Services**, allowing all users to access all device jobs (see [2.4.10](#))

[Configure the device's user access permission settings](#)).

- activates the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins**.
- For more information, see [7.2 Remove PaperCut MF - Fuji Xerox ApeosPort V+](#).

ext-device.fuji_xerox_aip.force-uninstall-plugins

When removing or deleting *PaperCut MF - Fuji Xerox ApeosPort V+* from the device, specify whether:

- *BOTH* the PaperCut MF embedded plug-in *AND* the custom service is permanently uninstalled from the device, or
- *ONLY* the PaperCut MF custom service is permanently uninstalled from the device.

This is a device-specific config key.

- Values: Y (*BOTH* the PaperCut MF embedded plug-in *AND* the PaperCut MF custom service), N (*ONLY* the custom service)
- Default: Y

Note: This comes into effect only if:

- Either, PaperCut MF is removed (i.e. the config key **ext-device.fuji_xerox_aip.integration.enabled** is set to **N**). For more information, see [7.2 Remove PaperCut MF - Fuji Xerox ApeosPort V+](#)
- Or, PaperCut MF is deleted from the PaperCut MF Admin web interface. For more information, see [7.3 Delete PaperCut MF - Fuji Xerox ApeosPort V+](#).

Timeouts

ext-device.inactivity-timeout-secs

PaperCut MF timeout: Specify the interval of time (seconds) after which a user who is detected as being idle on PaperCut MF is automatically logged out.

This is a device-specific config key.

- Values: Any positive number (seconds)
- Default: 60 (seconds)

Note: This is only applicable if it is lower than the value of the device's timeout. However, if it is higher, then it is overridden by the lower value of device's timeout. For more information, see [4.8 Timeouts](#).

**ext-
device.fuji_xerox_aip.timeout.scan-
transfer.mins**

PaperCut MF scan transfer timeout: Specify the interval of time (minutes) after which a scan job that is still not sent to the user (failed scan transfer), is cancelled. The user is automatically taken to the PaperCut MF Scan Complete screen (with scan completed or failed status), displaying **Scan failed**.

This is a device-specific config key.

- Values: 1-15 (minutes)
- Default: 5 (minutes)

Note: This timeout temporarily deactivates the PaperCut MF timeout (**ext-device.inactivity-timeout-secs**) and the device timeout. For more information, see [4.8 Timeouts](#).

**ext-
device.fuji_xerox_aip.timeout.scan-
interrupted.secs**

PaperCut MF interrupted scan timeout: Specify the interval of time (seconds) after which a user with an interrupted scan on the PaperCut MF Scanning (with a processing spinning wheel) screen, who is detected as being idle, is automatically logged out and the scan job is cancelled.

This is a device-specific config key.

- Values: 0-900 (seconds)
- Default: 30 (seconds)

Note: This timeout temporarily deactivates the PaperCut MF timeout (**ext-device.inactivity-timeout-secs**) and the device timeout. For more information, see [4.8 Timeouts](#).

**ext-
device.fuji_xerox_aip.timeout.scan-
prompt-send.secs**

PaperCut MF Scan More or Finish timeout: Specify the interval of time (seconds) after which a user who is detected as being idle on the PaperCut MF Scan More or Finish (with the two buttons – **Scan new document**, **Finish**) screen is automatically taken to the PaperCut MF Scan Complete (with scan completed or failed status). The process of sending the completed scan job to the user (scan transfer) is also automatically initiated, and the user is logged out.

This is a device-specific config key.

- Values: Any positive integer, DEFAULT
- Default: DEFAULT (30 seconds)

Note: This timeout temporarily deactivates the PaperCut MF timeout (**ext-device.inactivity-timeout-secs**) and the device timeout. For more information, see [4.8 Timeouts](#).

ext-device.fuji_xerox_aip.timeout.complete-scan-job-secs

PaperCut MF Scan Complete timeout: Specify the interval of time (seconds) after which a user who is detected as being idle on the PaperCut MF Scan Complete screen (with scan completed or failed status), is automatically logged out.

This is a device-specific config key.

- Values: Any positive integer, DEFAULT
- Default: DEFAULT (5 seconds)

Note: This timeout temporarily deactivates the PaperCut MF timeout (**ext-device.inactivity-timeout-secs**) and the device timeout. For more information, see [4.8 Timeouts](#).

ext-device.fuji_xerox_aip.scan.maximum-idle-time-seconds

PaperCut MF Scan Maximum Idle timeout:

Specifies the maximum amount of time in seconds that server can be idle and wait for a scanning event to occur. If the server does not receive a scanning event within the idle time frame, it considers the scan job as completed.

This is a device-specific config key.

- Values: Any positive integer, -1
- Default: -1 (no idle timeout)

Note: The default value of -1 indicates that no timer will be applied so jobs will be processed as normal

ext-device.fuji_xerox_aip.scan-job-update-wait-time-secs

PaperCut MF Scan Job Update Wait Time:

Specifies a delay in seconds for processing scan update when it is required to wait longer for the logout event on some specific network circumstances. The pending scan job is marked as complete after logout.

This is a device-specific config key.

- Values: Any positive integer, 0
- Default: 0

Note: The default value of 0 indicates that there will be no delay for processing scan events, so jobs will be processed as normal immediately without delay

5 Known Limitations

5.1 Swipe card authentication is unavailable after power supply interruption

If the **Swipe card** authentication option is selected (see [4.3 User authentication options](#)), and power supply to the USB ports is interrupted while the device is in sleep mode, then when the device wakes up from sleep mode, the card reader may continue to be unavailable for a short period of time until the device has completely woken up. As a result, user authentication using swipe cards during this time is unavailable.

5.2 Limitations of the configured Reference Page Cost and maximum number of Reference Pages Allowed

The Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for scan, copy, fax, or on-device print jobs, has the following limitations.

5.2.1 Limitation 1: Reference Page Cost is unavailable for Integrated Scan jobs

The Reference Page Cost that is used to calculate the maximum number of Reference Pages Allowed for device jobs is only available for copy, scan, fax, and on-device print jobs. It is unavailable for scan jobs using PaperCut MF's Integrated Scanning. As a result, when scanning using PaperCut MF's Integrated Scanning, a restricted user's account balance can drop below zero.

5.2.2 Limitation 2: Reference Page Cost is lower than the actual per page cost

If the Reference Page Cost is lower than the actual per page cost of the restricted user's scan, copy, fax, or on-device print jobs, then the restricted user's account balance could drop below zero. This is because the cost of the equivalent number of pages of the actual job would be much higher than the cost of the same number of Reference Pages Allowed.

Example – Reference Page Cost is lower than actual job cost

The following is an example of what could happen if the Reference Page Cost is based on an A4 paper size (which costs less than Letter), but the actual job is a Letter paper size. The job is allowed, and the restricted user's account balance drops below zero.

- **Account's opening balance = \$4.50**
- **Attributes and costs of references:**
 - Configured attribute of one Reference Page = A4
 - Calculated cost of one Reference Page = \$1.00
 - Maximum number of Reference Pages Allowed = 4
 - Total cost of maximum number of Reference Pages Allowed = \$4
 - **Account's closing balance using References = \$0.50 (actual job is allowed)**
- **Attributes and costs of actuals:**

- Attribute of actual page = Letter
- Cost of actual page = \$1.50
- Number of actual pages = 4
- Total cost of actual pages = \$6
- **Account's closing balance using actuals** = $-\$1.50$ (*account balance is negative*)

5.2.3 Limitation 3: Reference Page Cost is higher than the actual per page cost

If the Reference Page Cost is higher than the actual per page cost of the restricted user's scan, copy, fax, or on-device print jobs, then even if the restricted user's account balance has enough funds to cover the actual cost of the job, the following could occur:

- the user could be incorrectly prevented from starting a scan, copy, fax, or on-device print job,
- the user could be prematurely stopped in the middle of a scan, copy, fax, or on-device print job.

This is because the cost of the number of Reference Pages Allowed would be higher than the cost of the equivalent number of pages of the actual job.

Example – Reference Page Cost is higher than actual job cost

The following is an example of what could happen if the Reference Page Cost is based on a Letter paper size (which costs more than A4), but the actual job is an A4 paper size. The job is not allowed although the account balance has enough funds to cover the job without dropping below zero.

- **Account's opening balance** = \$1.50
- **Attributes and costs of references:**
 - Configured attribute of one Reference Page = Letter
 - Calculated cost of one Reference Page = \$2.00
 - Maximum number of Reference Pages Allowed = 0 (*actual job is not allowed*)
- **Attributes and costs of actuals:**
 - Attribute of actual page = A4
 - Cost of actual page = \$0.50
 - Number of actual pages = 2
 - Total cost of actual pages = \$1.00
 - **Account's closing balance using actuals** = \$0.50 (*account balance would not have been negative, if the actual job was allowed*)

5.3 Attempting a new Integrated Scan job after an interrupted scan job causes an error

If when using Integrated Scanning to perform a scan job, it is interrupted, and the user voluntarily logs out of the device, then if the same user or a different user logs back in to the device and attempts another scan job, the user could get the following error on the PaperCut MF Scan screens with **Start** button (Scan Details, Scan Settings):

Unable to start scan. The device is busy processing a previous job. ×

The server log file in `[PaperCut MF Install Location]\server\logs\server.log` has the following entry:

```
WARN ScanLifecycleController:218 - Aborting due to a client-side scanner error for job null on device 158158:Previous scan job still active. Clear incomplete active jobs from device job list [https-104]
```

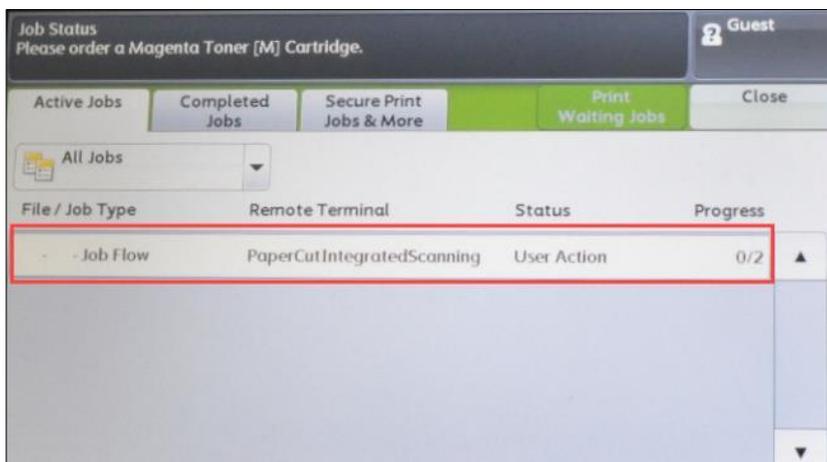
This error implies that the automatic removal of the previous interrupted scan job from the queue has not been completed. When this automatic clean-up task is completed, the error is resolved, and the device can be used again for scan jobs.

Alternatively, this automatic clean-up task can also be done manually using the following method, in order to resolve the error:

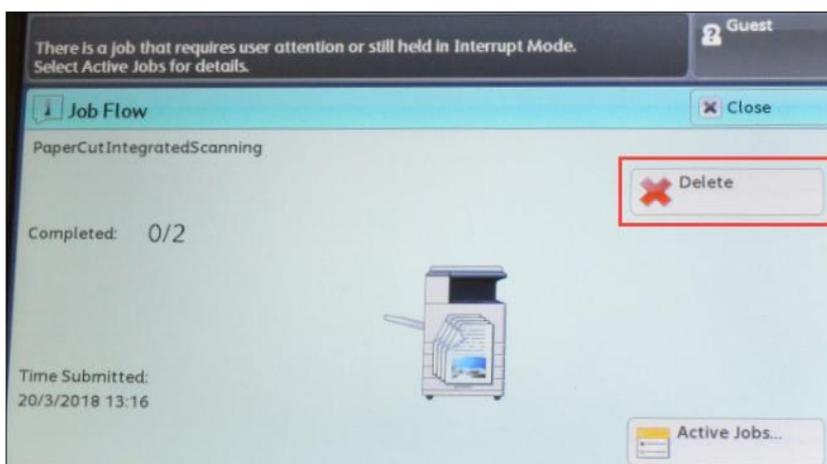
1. Access the physical device.
2. Click the **Job Status** hard button on the device's panel:



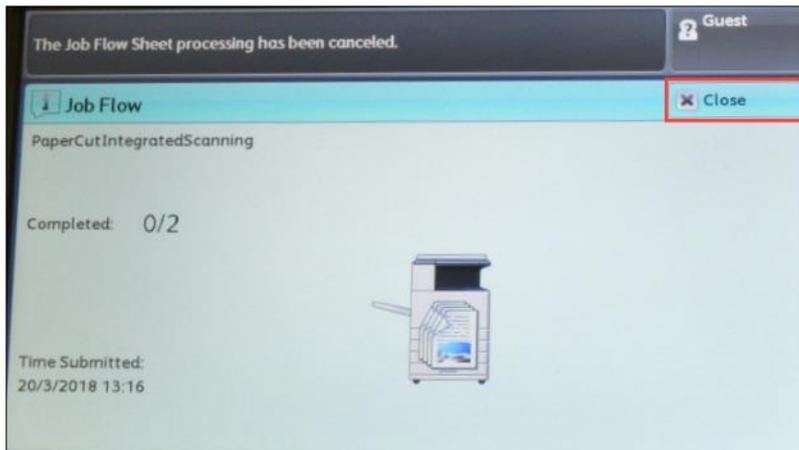
3. Select the interrupted scan job from the queue (**File / Job Type: Job Flow, Remote Terminal: PaperCutIntegratedScanning, Status: User Action**):



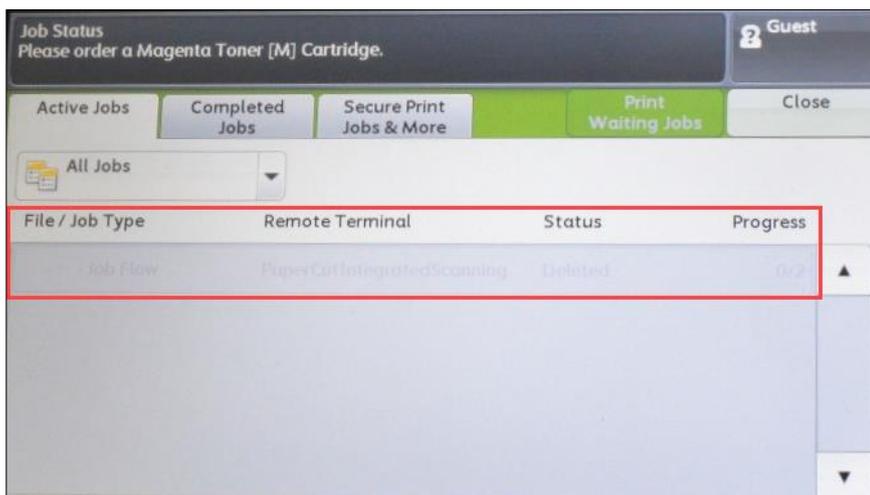
4. Click **Delete**:



5. Click **Close**:



6. Verify that the interrupted scan job is removed from the queue (**Status: Deleted**):



5.4 Duplex Integrated Scan jobs using the glass is unavailable

If using Integrated Scanning to perform a duplex scan job, the pages to be scanned must be placed on the document feeder.

Placing the pages to be scanned on the glass, instead of on the document feeder, produces the following message:



This occurs because the document feeder is detected as being empty (pages that are to be scanned cannot be detected). As a result, the user is unable to start the scan job, until the pages to be scanned are placed on the document feeder.

5.5 PaperCut MF's Integrated Scanning screens are impacted differently based on user input

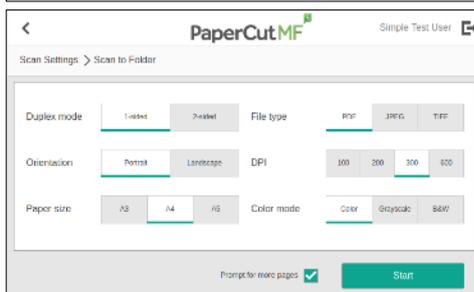
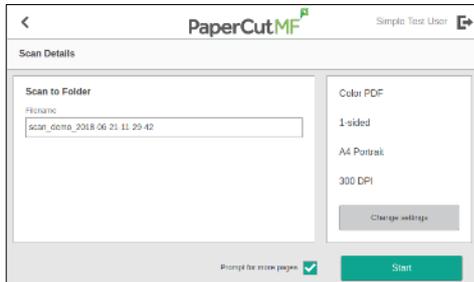
PaperCut MF's Integrated Scanning screens are impacted in slightly different ways based on user input:

PaperCut MF's Integrated Scanning screens

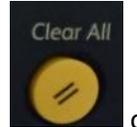
User input

Impact

The PaperCut MF Scan screens with **Start** button (Scan Details, Scan Settings)



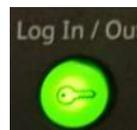
or



or



or



or



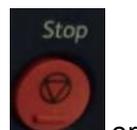
No impact

- The user is logged out
- The scan job is aborted

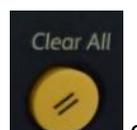
The PaperCut MF Scanning screen (with a processing spinning wheel)



or



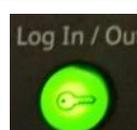
or



or



or



or

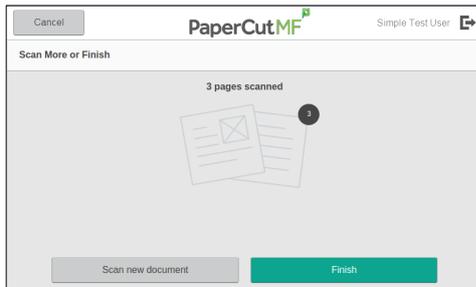
No impact

- The scan job is aborted
- The scan job not sent to the user
- The scan job is tracked
- The user is charged
- The user is logged out



- The scan job is not aborted
- The scan job is sent to the user
- The scan job is tracked
- The user is charged

The PaperCut MF Scan More or Finish (with the two buttons – **Scan new document**, **Finish**) screen:



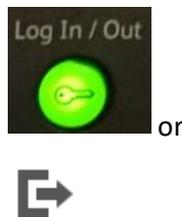
No impact



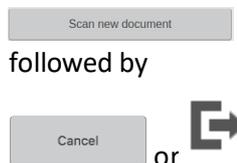
- The scan job is sent to the user
- The scan job is tracked
- The user is charged



- The scan job is not aborted
- The scan job is not sent to the user
- The scan job is tracked
- The user is charged



- The user is logged out
- The scan job is not aborted
- The scan job is sent to the user
- The scan job is tracked
- The user is charged



- The current scan job is aborted; it is not sent to the user; it is not

- tracked; the user is not charged
- However, if there were other scan jobs before the last scan job, then those scan jobs are not aborted; the scan jobs are sent to the user; they are tracked, and the user is charged

6 FAQ & Troubleshooting

6.1 IP addresses of the PaperCut MF Application Server

To get the IP addresses of the PaperCut MF Application Server, run any one of the following applicable commands from the command line prompt:

- For Windows: `ipconfig`
- For Linux, Mac OS: `ifconfig`

6.2 Device Status "Started (with errors) – Unknown error"

After attempting to install PaperCut MF on the device, if the **Device Status** displays **Started (with errors) – Unknown error**, it implies that PaperCut MF installation is unsuccessful because of the configuration of the device's signature verification settings. For more information, see [2.4.6 Configure the device's signature verification settings](#).

6.3 Device Status "Operation not supported"

After attempting to install PaperCut MF on the device, if the **Device Status** displays **Operation not supported**, it implies that PaperCut MF installation is unsuccessful because of the configuration of the device's custom services settings. For more information, see [2.4.7 Configure the device's custom services settings](#).

6.4 Device Status "Started (with errors)... System is Locked"

After attempting to install PaperCut MF on the device, if the **Device Status** displays **Started (with errors)... System is Locked**, it implies that PaperCut MF installation is unsuccessful because of the configuration of the device's embedded plug-ins settings. For more information, see [2.4.8 Configure the device's embedded plug-ins settings](#).

6.5 Device Status "Device is currently in use, unable to initiate exclusive lock on the device"

After attempting to install PaperCut MF on the device, if the **Device Status** displays **Device is currently in use, unable to initiate exclusive lock on the device**, it implies that PaperCut MF installation is unsuccessful because the device could not be temporarily locked. This occurs because of any one of the following reasons:

- either, the device is being used by a user to process a job,
- or, although the device is not being used to process a job it "appears" to be in use, because of the configuration of the device's Smart WelcomEyes settings, which is detecting motion.

To resolve this:

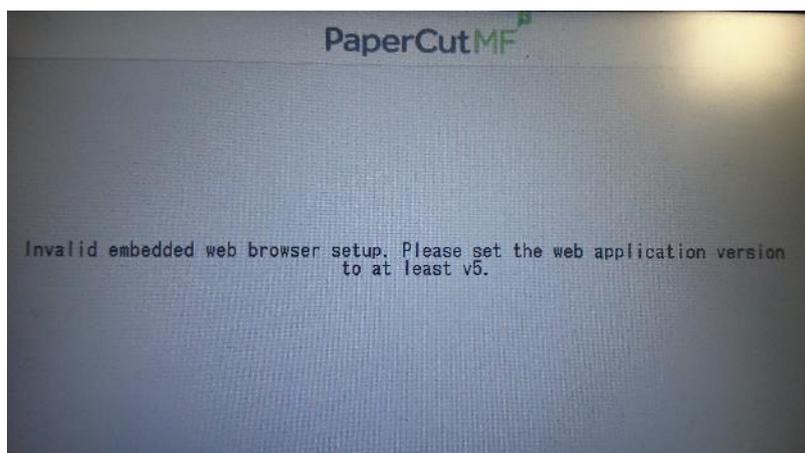
1. Ensure the device is not being used by a user to process a job.
2. Temporarily disable the device's Smart WelcomEyes feature during PaperCut MF installation:
 - a. Log in to the device's web interface as an administrator.
 - b. Navigate to **Properties > General Setup > Job Management > Power Saver Settings**.
 - c. In **Smart WelcomEyes**, ensure **Activated** is not selected:



- d. Click **Apply**.
- e. Click **Reboot Machine**.

6.6 "Invalid embedded web browser setup" error

After attempting to install PaperCut MF on the device, if the device displays the following message, it implies that PaperCut MF installation is unsuccessful because of the configuration of the device's web browser settings:



For more information, see [2.4.9 Configure the device's web browser settings](#).

6.7 Device Status "Connecting to server..."

If the **Device Status** displays **Connecting to server...**, it implies that the device is unable to establish connection with the PaperCut MF Application Server. This occurs because of any one of the following reasons:

- There is a network outage that is preventing network connection
- The PaperCut MF Application Server is not running
- The PaperCut MF Application Server's firewall or network routing configuration is preventing network connection
- There are errors in the **Create Device** fields (**Type, Device name, Hostname / IP, Device's administrator** credentials)

To resolve this:

1. Ensure the following:
 - there is no network outage
 - the PaperCut MF Application Server is running
 - the PaperCut MF Application Server's firewall or network routing configuration is not preventing network connection
2. Log in to the PaperCut MF Admin web interface.
3. Navigate to **Devices**.
4. Verify that the information in all the fields is accurate.
5. Click **Apply**.

6.8 Clicking the PaperCut MF icon does not display the PaperCut MF screen

After PaperCut MF is successfully installed on the device, if clicking the PaperCut MF icon on the device does not display the required PaperCut MF screen, it is because of the configuration of the duration of PaperCut MF's user authentication process. For more information, see [4.3.1 Duration of PaperCut MF's user authentication process](#).

6.9 Job Log Status "Aborted(016-757)"

After PaperCut MF is successfully installed on the device, if the device's **Job Logs** page on the PaperCut MF Admin web interface, displays a log with the **Status "Aborted(016-757)"**, it implies that:

- Either, released print jobs are not printed
- Or, released print jobs that are printed are being incorrectly tracked and charged twice (duplicate tracking and charging).

This is because of the configuration of the device's printer driver's accounting system settings. For more information, see [2.4.12 Configure the device's printer driver's accounting system settings](#).

6.10 Device job tracking and charging is incorrect

If device jobs are incorrectly tracked and charged, it is because of the configuration of the device's accounting and billing settings. For more information, see [2.4.11 Configure the device's accounting and billing settings](#).

6.11 Unplugging card readers from USB ports

If the **Swipe card** authentication option is selected (see [4.3 User authentication options](#)), then before attempting to unplug card readers from USB ports, ensure to first disable the device's **Smart Card**:

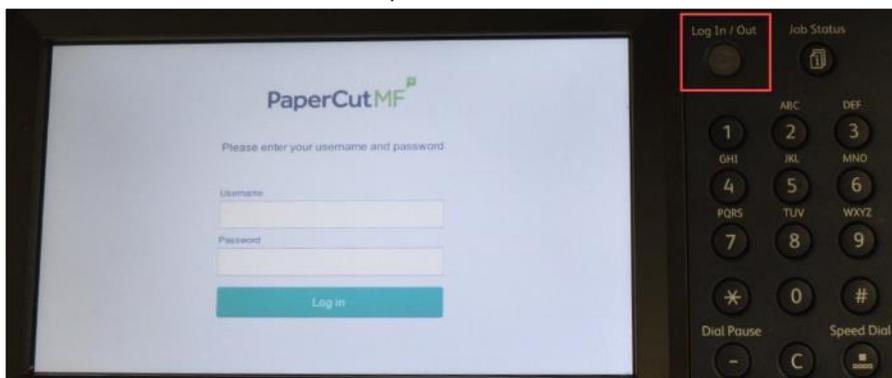
1. Log in to the device's web interface as an administrator.
2. Navigate to **Properties > Security > Smart Card Settings > General**.
3. In **Smart Card**, select **Disabled**.
4. Click **Apply**.
5. Click **Reboot Machine**.

6.12 Accessing administrative jobs

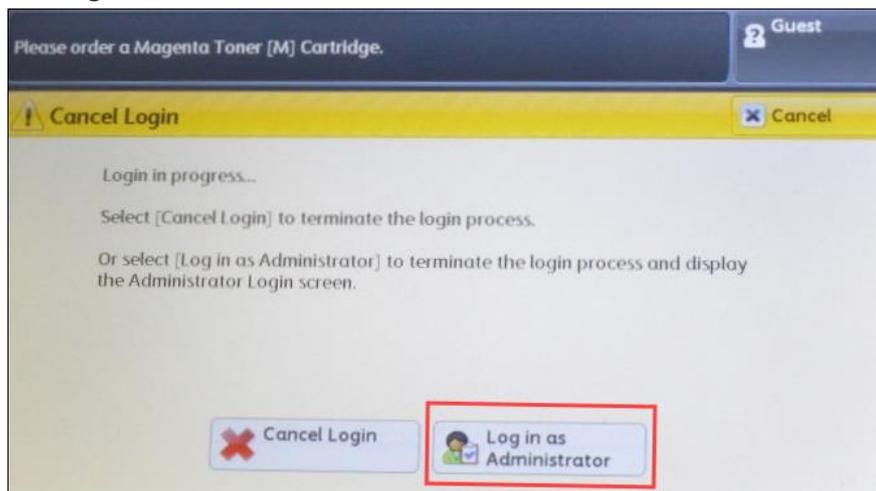
By default, PaperCut MF allows only authenticated administrators to access certain device jobs (such as, Tools, Screen Brightness, Calibration).

To access administrative jobs on the device:

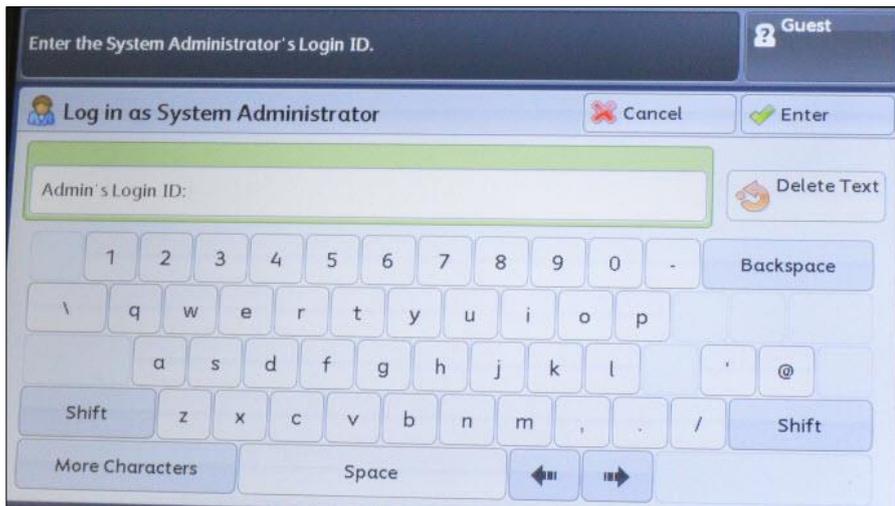
1. Navigate to the PaperCut MF Login screen on the device, and click the unilluminated **Log In / Out** hard button on the device's panel:



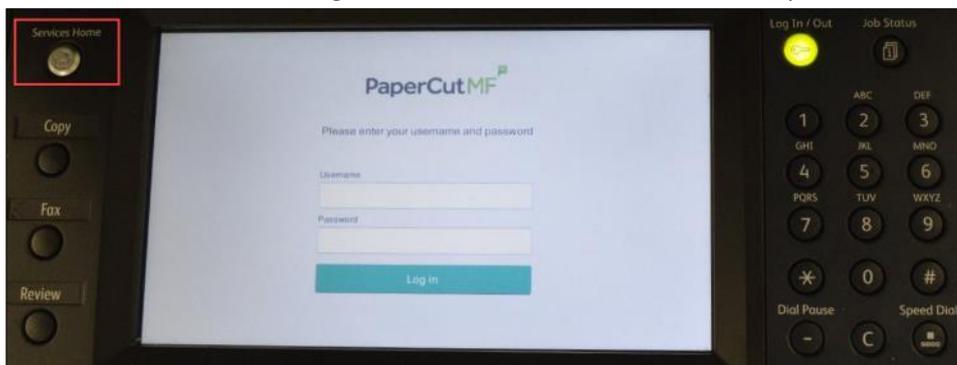
2. Click **Log in as Administrator**:



- In **Admin's Login ID**, enter the administrator credentials (username) used for the device's web interface; then click **Enter**. For more information, see [2.4.1 Log in to the device's web interface](#).



- Click the **Services Home** hard button on the device's panel.
Note: The unilluminated **Log In / Out** hard button on the device's panel is now illuminated.



- Select the required administrative job (such as, Tools).

Note: The user is authenticated as an **Admin**.



- For more information about each administrative job, consult the applicable third-party documentation available.

7 Uninstall *PaperCut MF - Fuji Xerox ApeosPort V+*

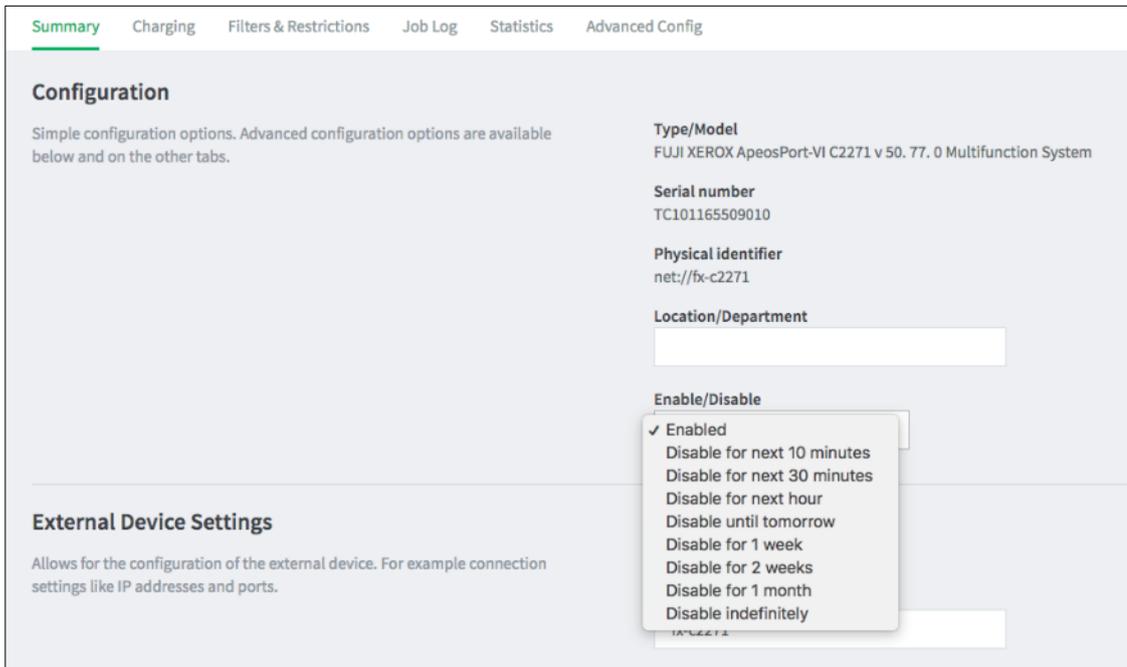
7.1 Disable *PaperCut MF - Fuji Xerox ApeosPort V+*

Disabling *PaperCut MF - Fuji Xerox ApeosPort V+*:

- retains *PaperCut MF - Fuji Xerox ApeosPort V+* on the PaperCut MF Admin web interface and on the device,
- deactivates user authentication on the device,
- retains the overriding the **Authentication Access (Locked or Unlocked)** that is configured for **Installed Services** (see [2.4.10 Configure the device's user access permission settings](#))

To disable *PaperCut MF - Fuji Xerox ApeosPort V+*:

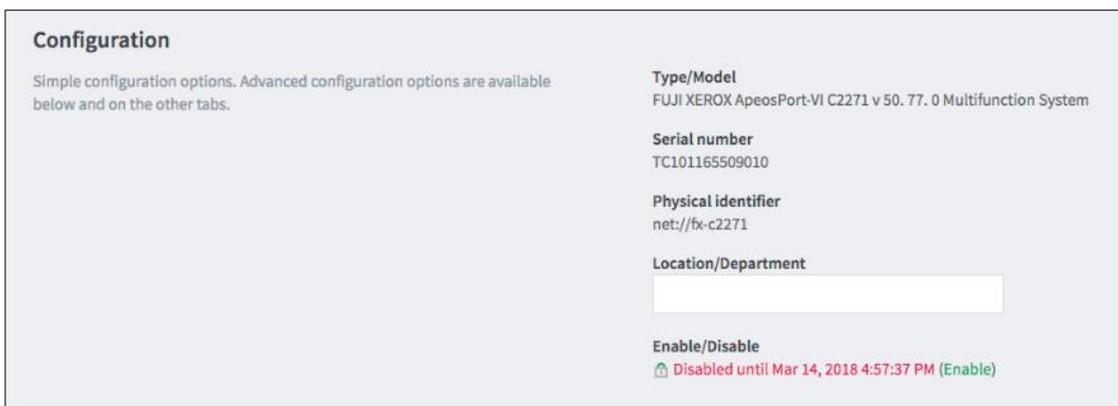
1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the device.
4. Click **Advanced Config**.
5. Ensure the config key **ext-device.fuji_xerox_aip.integration.enabled** is set to **Y**.
6. Click **Summary**.
7. In the **Configuration** area's **Enable/Disable**, select a **Disable** option:



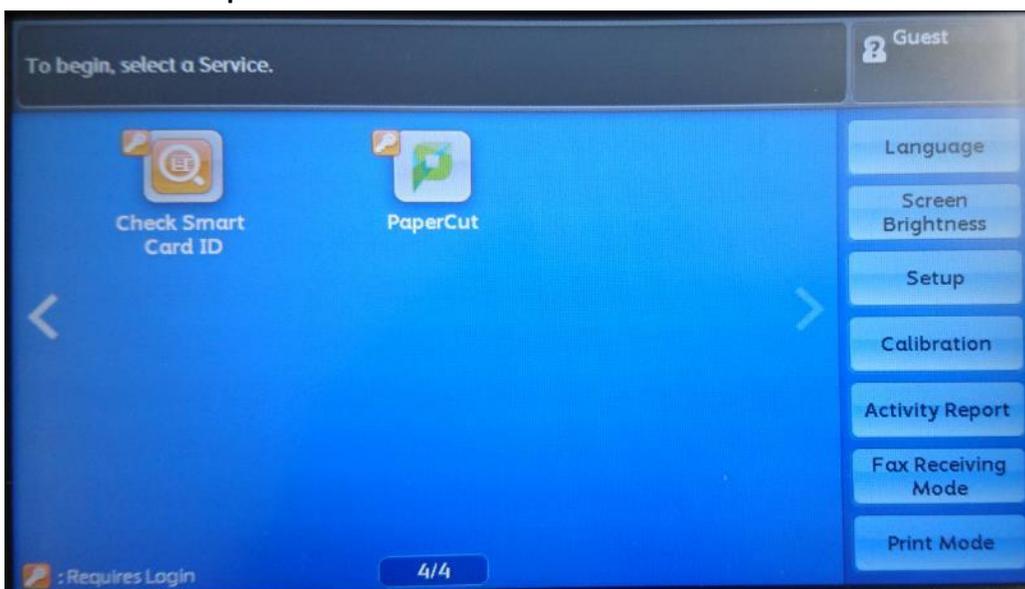
The screenshot displays the 'Advanced Config' page for a device. The 'Configuration' section is active, showing a list of configuration options. The 'Enable/Disable' dropdown menu is open, showing the following options:

- ✓ Enabled
- Disable for next 10 minutes
- Disable for next 30 minutes
- Disable for next hour
- Disable until tomorrow
- Disable for 1 week
- Disable for 2 weeks
- Disable for 1 month
- Disable indefinitely

8. Verify that *PaperCut MF - Fuji Xerox ApeosPort V+* is disabled:



9. On the device’s panel, click the **Services Home** hard button.
10. Click the locked **PaperCut MF** icon:



11. Verify that the following error message is displayed:



7.2 Remove *PaperCut MF - Fuji Xerox ApeosPort V+*

Removing *PaperCut MF - Fuji Xerox ApeosPort V+*:

- removes *PaperCut MF - Fuji Xerox ApeosPort V+* from the device, but continues to retain it on the PaperCut MF Admin web interface,
- deactivates user authentication on the device,
- overrides the **Authentication Access (Locked or Unlocked)** that is configured for **Installed Services**, allowing all users to access all device jobs (see [2.4.10 Configure the device's user access permission settings](#)).

To remove *PaperCut MF - Fuji Xerox ApeosPort V+*:

1. Log in to the PaperCut MF Admin web interface.
2. Navigate to **Devices**.
3. Select the device.
4. Click **Advanced Config**.
5. Set the config key **ext-device.fuji_xerox_aip.integration.enabled** to **N**. For more information, see [4.11 Config Editor](#).
6. Use the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins** to specify whether:
 - **BOTH** the PaperCut MF embedded plug-in **AND** the custom service is permanently uninstalled from the device, or
 - **ONLY** the PaperCut MF custom service is permanently uninstalled from the device.

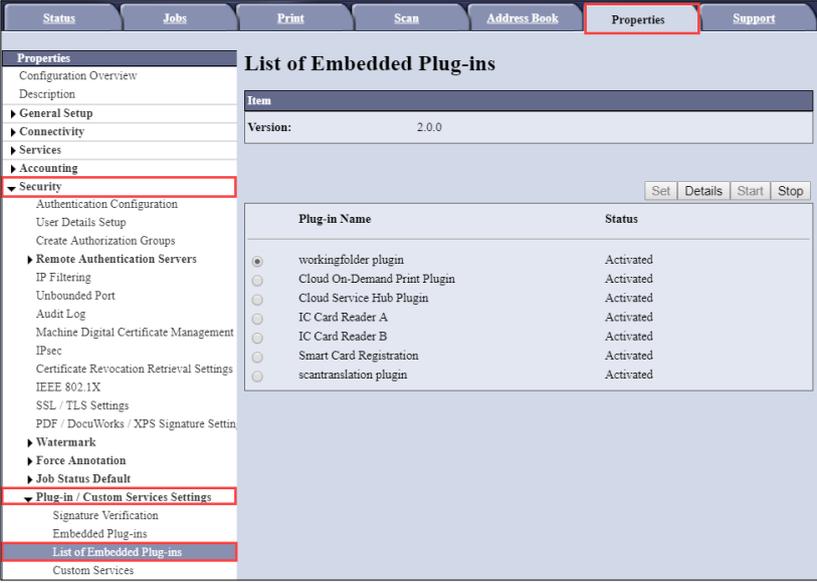
For more information, see [4.11 Config Editor](#).

7. Click **Update all**.
8. Verify that *PaperCut MF - Fuji Xerox ApeosPort V+* is not available on the device to users:



9. If the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins** was set to **Y**, then:
 - a. Log in to the device's web interface as an administrator.
 - b. Navigate to **Properties > Security > Plug-in / Custom Services Settings > List of Embedded Plug-ins**

- c. Verify that the **PaperCut Authentication Plugin** is no longer listed (*PaperCut MF - Fuji Xerox ApeosPort V+* is removed):



The screenshot shows the PaperCut MF Admin web interface. The 'Properties' tab is selected, and the 'Security' menu is expanded to show 'Plug-in / Custom Services Settings'. The 'List of Embedded Plug-ins' table shows several plug-ins, all of which are 'Activated'. The 'workingfolder plugin' is selected.

Plug-in Name	Status
<input checked="" type="radio"/> workingfolder plugin	Activated
<input type="radio"/> Cloud On-Demand Print Plugin	Activated
<input type="radio"/> Cloud Service Hub Plugin	Activated
<input type="radio"/> IC Card Reader A	Activated
<input type="radio"/> IC Card Reader B	Activated
<input type="radio"/> Smart Card Registration	Activated
<input type="radio"/> scantranslation plugin	Activated

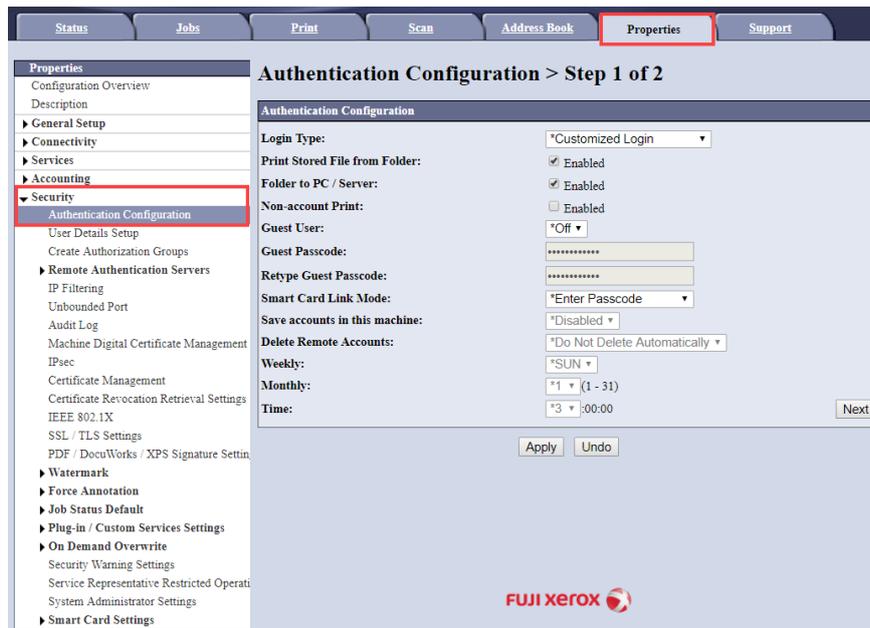
7.3 Delete *PaperCut MF - Fuji Xerox ApeosPort V+*

Deleting *PaperCut MF - Fuji Xerox ApeosPort V+* triggers the following actions:

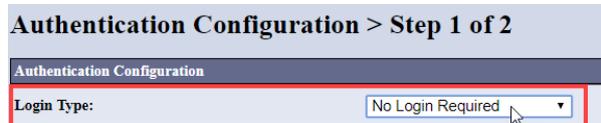
- removes *PaperCut MF - Fuji Xerox ApeosPort V+* from the device and from the PaperCut MF Admin web interface,
- deactivates user authentication on the device,
- overrides the **Authentication Access (Locked or Unlocked)** that is configured for **Installed Services**, allowing all users to access all device jobs (see [2.4.10 Configure the device's user access permission settings](#)).

To delete *PaperCut MF - Fuji Xerox ApeosPort V+*:

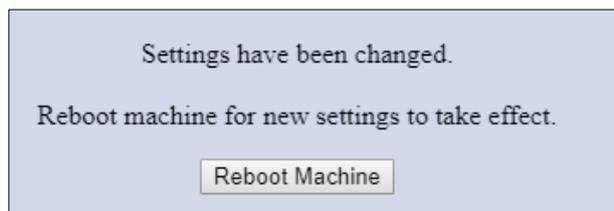
1. If this is a Fuji Xerox VII+ device, then:
 - a. Log in to the device's web interface as an administrator.
 - b. Navigate to **Properties > Security > Authentication Configuration**:



- c. In **Login Type**, select **No Login Required**:

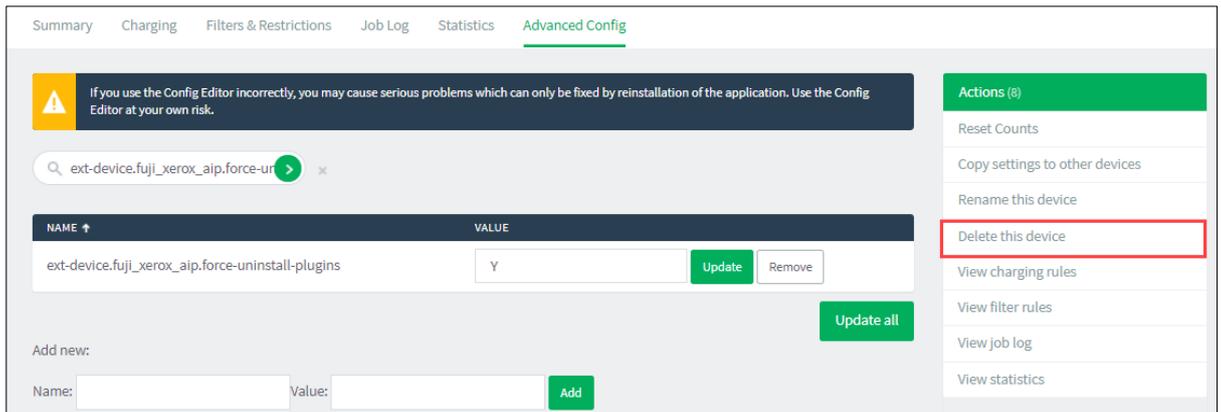


- d. Click **Apply**.
 e. Click **Reboot Machine**:

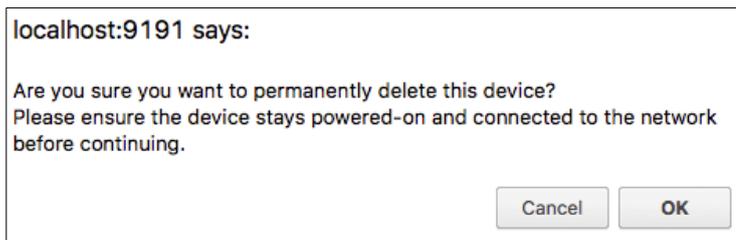


2. Log in to the PaperCut MF Admin web interface.
3. Navigate to **Devices**.
4. Select the device.
5. Click **Advanced Config**.
6. Use the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins** to specify whether:
 - *BOTH* the PaperCut MF embedded plug-in *AND* the custom service is permanently uninstalled from the device, or
 - *ONLY* the PaperCut MF custom service is permanently uninstalled from the device.
 For more information, see [4.11 Config Editor](#)
7. Click **Update all**.

8. Click **Actions > Delete this device:**



9. Click **Ok:**



10. Click **Devices** and verify that the device is no longer listed (*PaperCut MF - Fuji Xerox ApeosPort V+* is deleted).

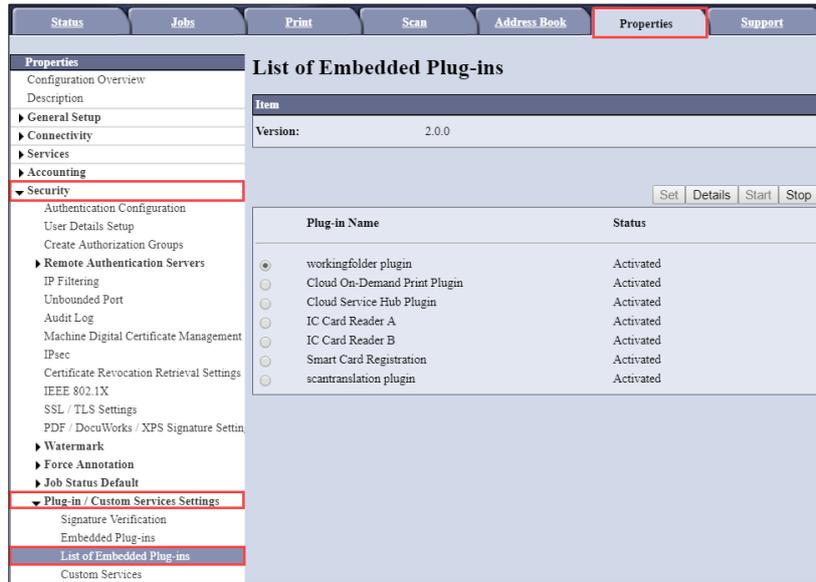
11. Verify that *PaperCut MF - Fuji Xerox ApeosPort V+* is not available on the device to users:



12. If the config key **ext-device.fuji_xerox_aip.force-uninstall-plugins** was set to **Y**, then:

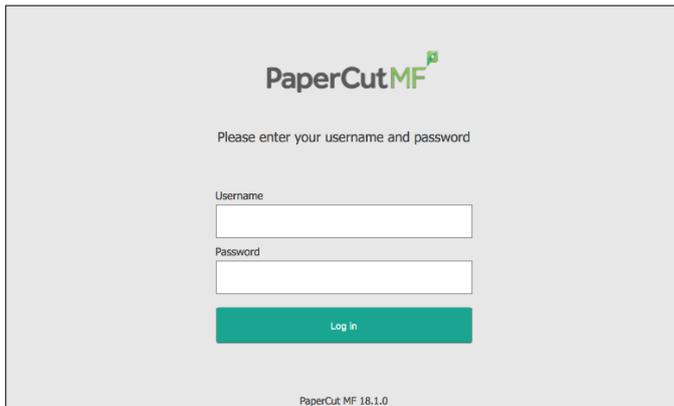
- a. Log in to the device's web interface as an administrator.
- b. Navigate to **Properties > Security > Plug-in / Custom Services Settings > List of Embedded Plug-ins**

- c. Verify that the **PaperCut Authentication Plugin** is no longer listed (*PaperCut MF - Fuji Xerox ApeosPort V+ is deleted*):

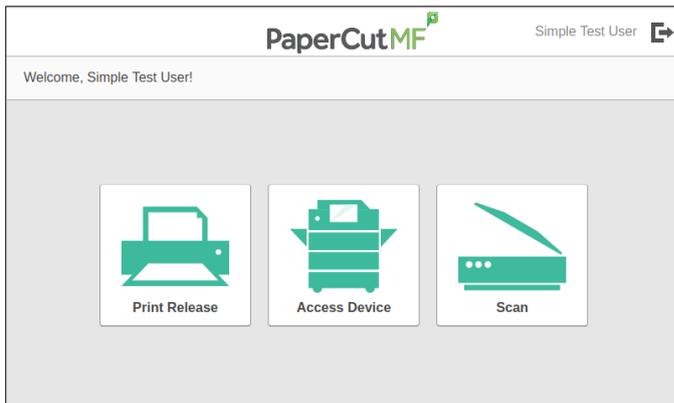


8 Appendix A: Device screens

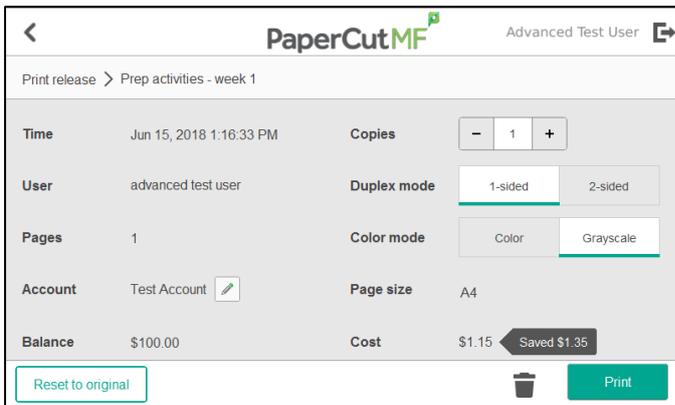
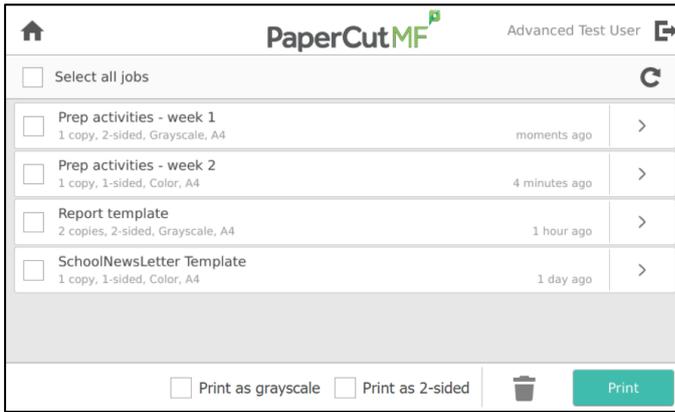
User authentication:



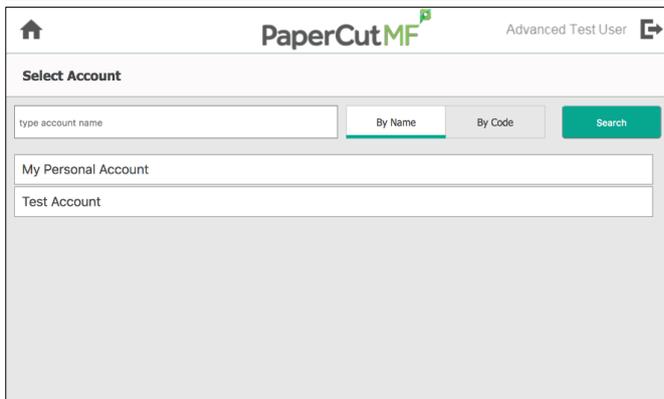
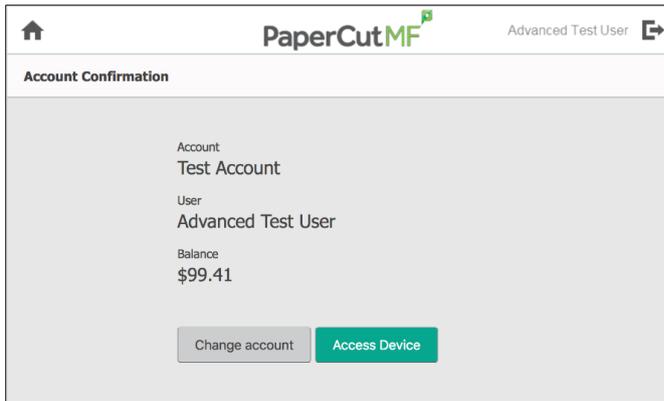
Home:



Secure Print Release:



Charging of jobs:



PaperCut MF Integrated Scanning:

